

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033021\  
 Data File : VL036559.D  
 Acq On : 30 Mar 2021 5:51  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

MMDadoda  
 4/1/2021 10:57:21 AM

Quant Time: Mar 30 08:36:43 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   | 5.65  | 49   | 1456069  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.15  | 114  | 3490569  | 10.00 | ppbv  | -0.03    |
| 55) Chlorobenzene-d5    | 12.06 | 117  | 3254139m | 10.00 | ppbv  | -0.03    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 2743385  | 10.58    | ppbv | -0.03   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 105.80% |

| Target Compounds               |      |     |         |             | Ovalue |
|--------------------------------|------|-----|---------|-------------|--------|
| 2) Dichlorodifluoromethane     | 3.03 | 85  | 2163585 | 9.110 ppbv  | 97     |
| 3) Chlorodifluoromethane       | 2.97 | 51  | 2531621 | 9.306 ppbv  | 100    |
| 4) Chloromethane               | 3.12 | 50  | 914692  | 9.519 ppbv  | 98     |
| 5) Vinyl Chloride              | 3.24 | 62  | 850801  | 8.611 ppbv  | 100    |
| 6) Bromomethane                | 3.46 | 94  | 481296  | 8.848 ppbv  | 100    |
| 7) Chloroethane                | 3.54 | 64  | 307532  | 9.058 ppbv  | 94     |
| 8) Dichlorotetrafluoroethane   | 3.17 | 85  | 2034001 | 8.974 ppbv  | 99     |
| 9) Propene                     | 2.99 | 41  | 779594  | 8.989 ppbv  | 97     |
| 10) Heptane                    | 8.10 | 43  | 2023337 | 9.158 ppbv  | 100    |
| 11) Trichlorofluoromethane     | 3.93 | 101 | 2178656 | 9.002 ppbv  | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.47 | 101 | 1396882 | 9.027 ppbv  | 98     |
| 13) Ethanol                    | 3.59 | 45  | 81570m  | 7.898 ppbv  |        |
| 14) Bromoethene                | 3.72 | 108 | 589154  | 9.158 ppbv  | 99     |
| 15) Acetone                    | 3.83 | 43  | 1236621 | 8.629 ppbv  | 98     |
| 16) 1,3-Butadiene              | 3.31 | 39  | 896009  | 8.980 ppbv  | 98     |
| 17) tert-Butyl alcohol         | 4.27 | 59  | 1006250 | 8.066 ppbv  | 98     |
| 18) 1,1-Dichloroethene         | 4.27 | 96  | 601325  | 8.736 ppbv  | 100    |
| 19) Isopropyl Alcohol          | 3.95 | 45  | 573654m | 7.277 ppbv  |        |
| 20) Methylene Chloride         | 4.32 | 84  | 560276  | 8.350 ppbv  | 96     |
| 21) Allyl Chloride             | 4.39 | 41  | 989619  | 8.662 ppbv  | 99     |
| 22) trans-1,2-Dichloroethene   | 4.86 | 96  | 551772  | 8.647 ppbv  | 93     |
| 23) Vinyl Acetate              | 5.05 | 43  | 2255562 | 9.201 ppbv  | 99     |
| 24) 1,1-Dichloroethane         | 4.99 | 63  | 1614658 | 9.037 ppbv  | 99     |
| 25) Ethyl Acetate              | 5.66 | 43  | 2963990 | 8.699 ppbv  | 99     |
| 26) Hexane                     | 5.66 | 57  | 1444137 | 9.134 ppbv  | 97     |
| 27) Carbon Disulfide           | 4.53 | 76  | 1504367 | 9.658 ppbv  | 98     |
| 28) Methyl tert-Butyl Ether    | 5.01 | 73  | 1559160 | 8.362 ppbv  | 99     |
| 29) Chloroform                 | 5.73 | 83  | 2279127 | 9.013 ppbv  | 99     |
| 30) Cyclohexane                | 7.11 | 84  | 1170482 | 9.128 ppbv  | 97     |
| 31) cis-1,2-Dichloroethene     | 5.53 | 61  | 1371490 | 8.968 ppbv  | 95     |
| 32) 1,1,1-Trichloroethane      | 6.49 | 97  | 2254851 | 8.848 ppbv  | 99     |
| 34) 2-Butanone                 | 5.22 | 43  | 1420787 | 8.339 ppbv  | 99     |
| 35) Carbon Tetrachloride       | 7.00 | 117 | 2370899 | 8.843 ppbv  | 96     |
| 36) Benzene                    | 6.87 | 78  | 2912842 | 9.048 ppbv  | 98     |
| 37) 1,2-Dichloroethane         | 6.29 | 62  | 1697685 | 8.960 ppbv  | 100    |
| 38) Trichloroethene            | 7.81 | 130 | 1055910 | 8.428 ppbv  | 97     |
| 39) 1,2-Dichloropropane        | 7.59 | 63  | 1172222 | 8.976 ppbv  | 100    |
| 40) 1,4-Dioxane                | 7.81 | 88  | 226051m | 7.438 ppbv  |        |
| 41) Tetrahydrofuran            | 6.03 | 42  | 599566  | 7.632 ppbv  | 97     |
| 42) Bromodichloromethane       | 7.77 | 83  | 2478799 | 9.618 ppbv  | 99     |
| 43) Methyl Methacrylate        | 7.99 | 69  | 1102590 | 10.200 ppbv | 99     |

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

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

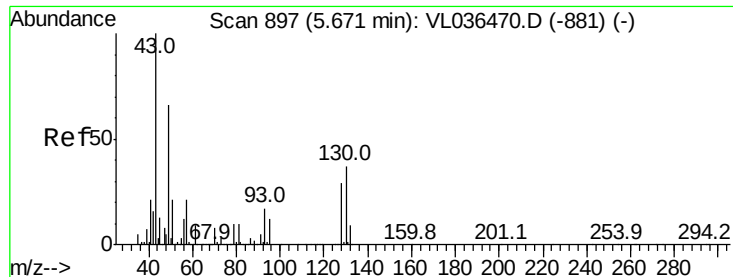
MMDadoda  
 4/1/2021 10:57:21 AM

Quant Time: Mar 30 08:36:43 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    | 7.85  | 57   | 4964727  | 8.763  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.26  | 75   | 994935   | 8.060  | ppbv   | 97       |
| 46) cis-1,3-Dichloropropene   | 8.68  | 75   | 1299790  | 8.238  | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 9.45  | 97   | 1171858  | 8.860  | ppbv   | 99       |
| 48) Dibromochloromethane      | 10.28 | 129  | 1939448  | 9.619  | ppbv   | 100      |
| 49) Bromoform                 | 13.02 | 173  | 1588448  | 9.777  | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 8.72  | 43   | 2163747  | 8.776  | ppbv   | 99       |
| 51) 2-Hexanone                | 10.11 | 43   | 1156522  | 9.296  | ppbv # | 99       |
| 52) Tetrachloroethene         | 11.20 | 164  | 999831m  | 8.434  | ppbv   |          |
| 53) Toluene                   | 9.78  | 91   | 3262816  | 9.517  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.58 | 107  | 1690257  | 9.049  | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.10 | 131  | 1371107  | 9.315  | ppbv   | 99       |
| 57) Chlorobenzene             | 12.12 | 112  | 2415496  | 8.724  | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.69 | 91   | 4398558  | 9.291  | ppbv   | 99       |
| 59) m/p-Xylene                | 12.97 | 91   | 7505919m | 18.177 | ppbv   |          |
| 60) o-Xylene                  | 13.67 | 91   | 3536847  | 8.858  | ppbv   | 100      |
| 61) Styrene                   | 13.50 | 104  | 1935485  | 9.635  | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.64 | 105  | 4871220  | 9.060  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.65 | 83   | 2559750  | 8.404  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.54 | 120  | 1249795  | 9.507  | ppbv   | 93       |
| 65) tert-Butylbenzene         | 16.72 | 119  | 4238563  | 9.091  | ppbv   | 99       |
| 66) Benzyl Chloride           | 16.97 | 91   | 512110m  | 9.937  | ppbv   |          |
| 67) sec-Butylbenzene          | 17.27 | 105  | 5934253  | 9.017  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.63 | 119  | 4929073  | 9.591  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.53 | 91   | 5121660  | 9.611  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.43 | 91   | 3796824  | 9.424  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.82 | 105  | 4144009  | 9.472  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.98 | 105  | 3705423  | 9.074  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.74 | 105  | 3896414  | 8.917  | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 16.97 | 146  | 2222019  | 9.034  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.11 | 146  | 2252122m | 9.222  | ppbv   |          |
| 77) 1,2-Dichlorobenzene       | 17.80 | 146  | 2164607  | 9.362  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.35 | 225  | 1660713  | 8.020  | ppbv   | 99       |
| 79) Naphthalene               | 22.17 | 128  | 2470684  | 9.689  | ppbv   | 99       |
| 80) Naphthalene, 2-methyl-    | 24.96 | 142  | 323565   | 6.435  | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 21.90 | 180  | 1525784  | 9.691  | ppbv   | 99       |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.02 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1456069

Ion Ratio Lower Upper

49 100

128 46.0 23.5 70.6

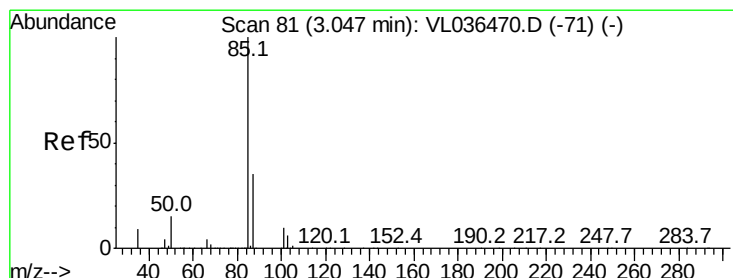
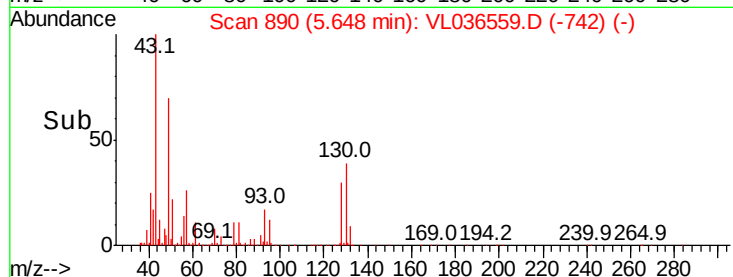
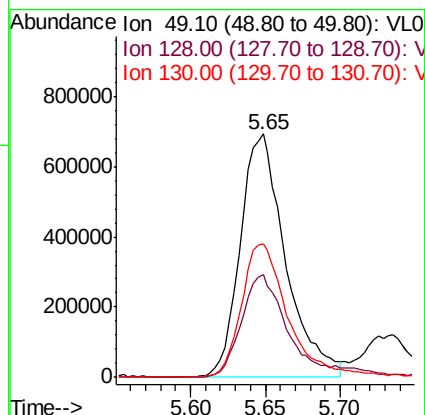
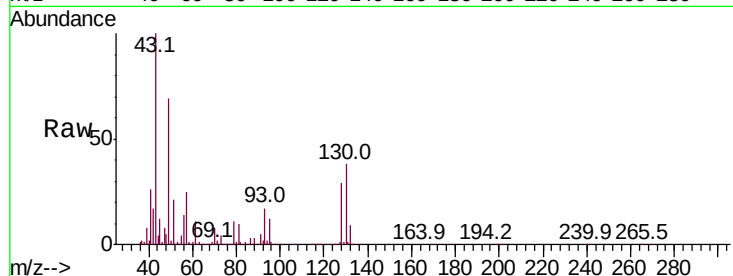
130 57.5 29.1 87.4

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 9.110 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.02 min

Lab File: VL036559.D

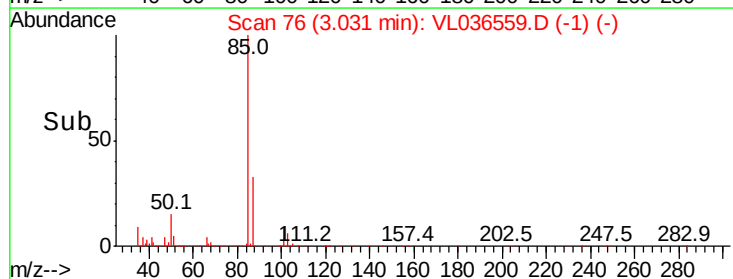
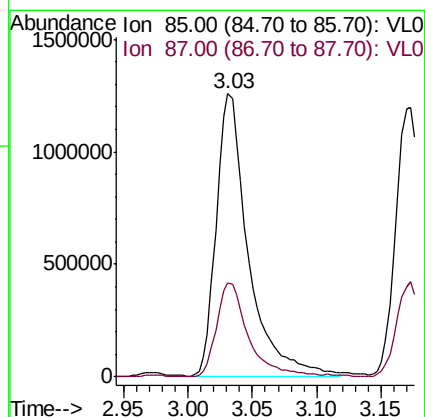
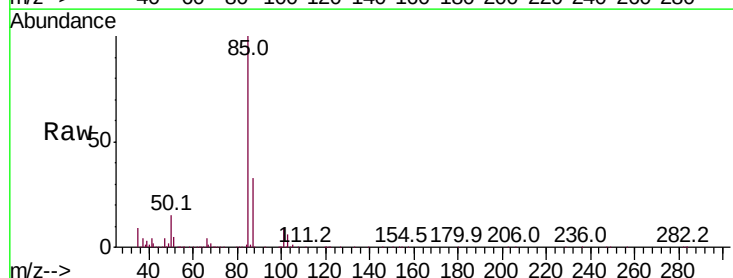
Acq: 30 Mar 2021 5:51

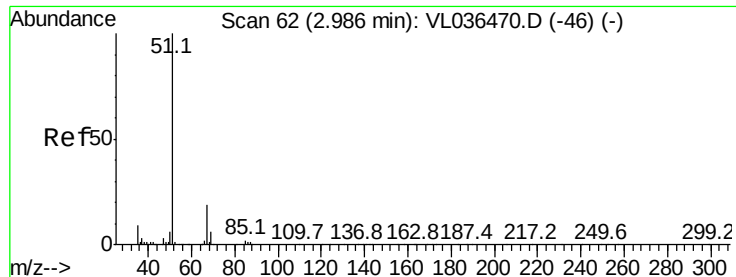
Tgt Ion: 85 Resp: 2163585

Ion Ratio Lower Upper

85 100

87 33.2 27.8 41.8





#3

Chlorodifluoromethane

Concen: 9.306 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.02 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 51 Resp: 2531621

Ion Ratio Lower Upper

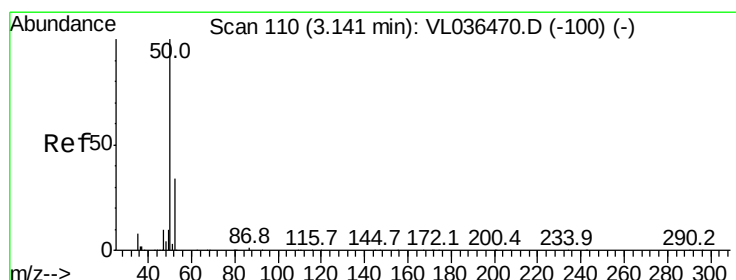
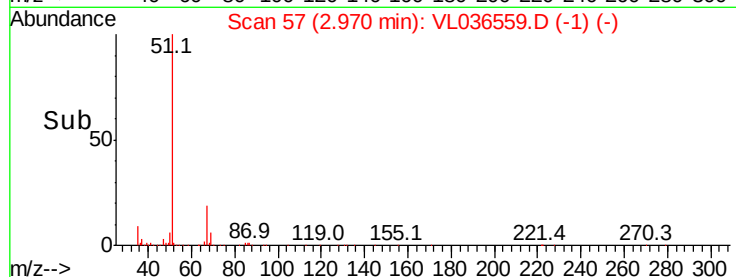
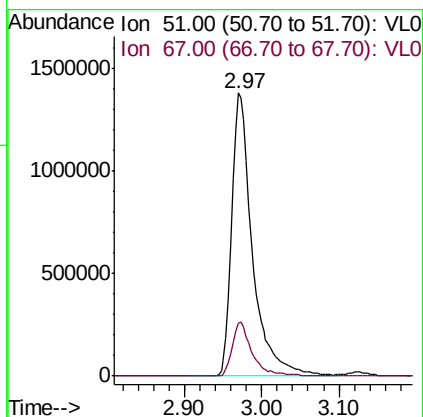
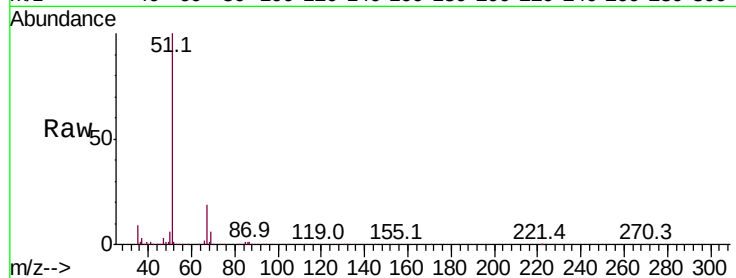
51 100

67 18.6 14.7 22.1

Manual Integrations  
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#4

Chloromethane

Concen: 9.519 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.02 min

Lab File: VL036559.D

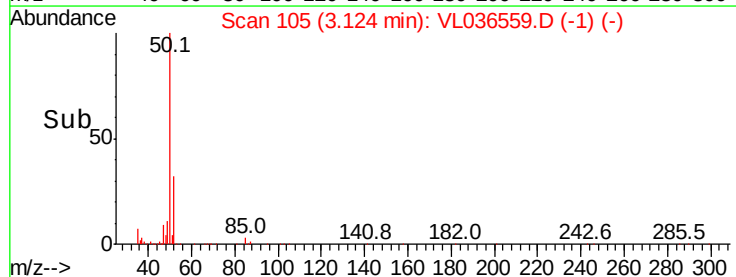
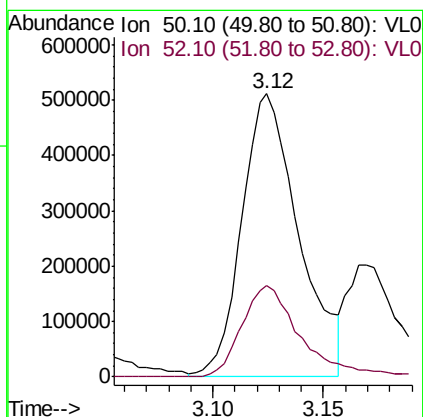
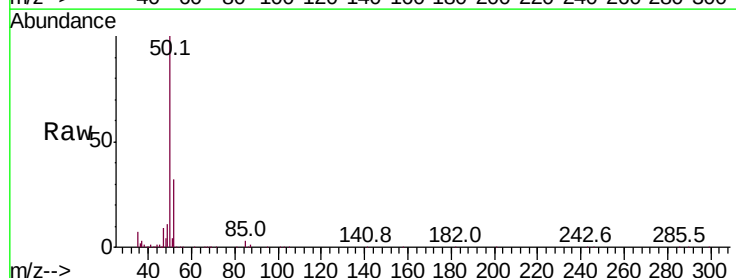
Acq: 30 Mar 2021 5:51

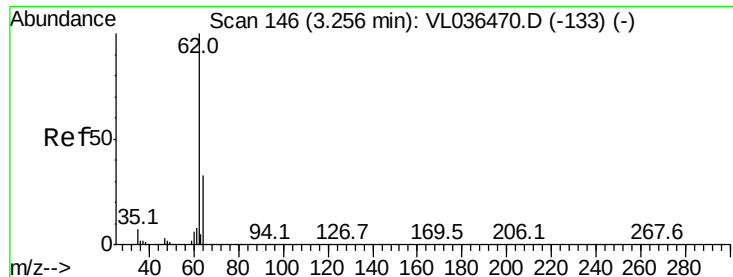
Tgt Ion: 50 Resp: 914692

Ion Ratio Lower Upper

50 100

52 32.7 27.0 40.6





#5

Vinyl Chloride

Concen: 8.611 ppbv

RT: 3.24 min Scan# 141

Delta R.T. -0.02 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 850801

Ion Ratio Lower Upper

62 100

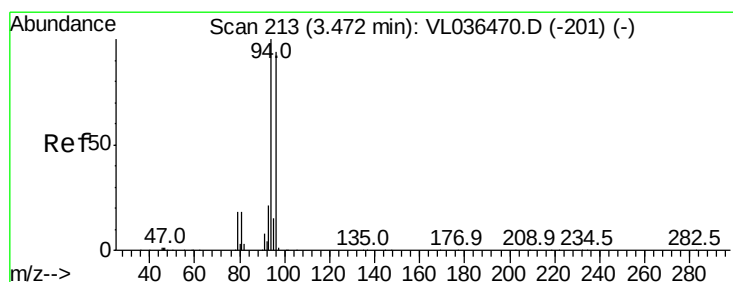
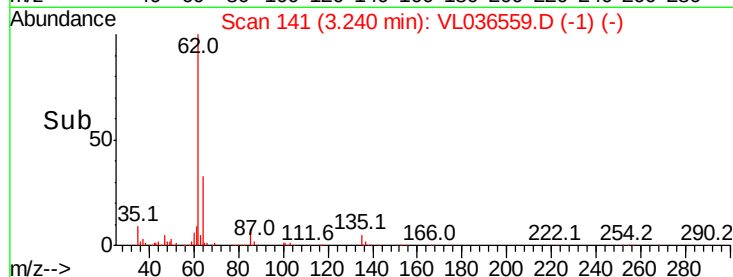
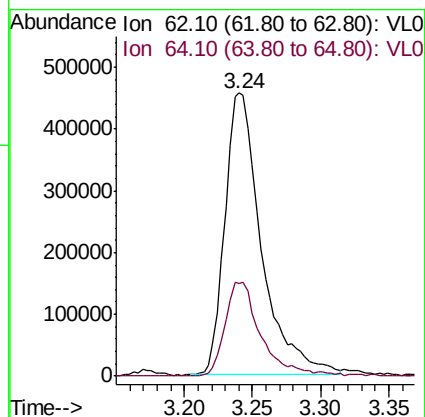
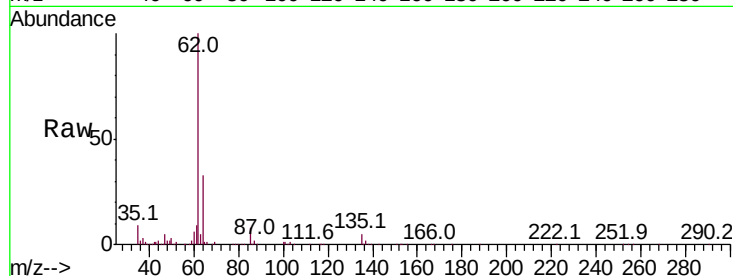
64 32.8 26.4 39.6

Manual Integrations

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#6

Bromomethane

Concen: 8.848 ppbv

RT: 3.46 min Scan# 209

Delta R.T. -0.01 min

Lab File: VL036559.D

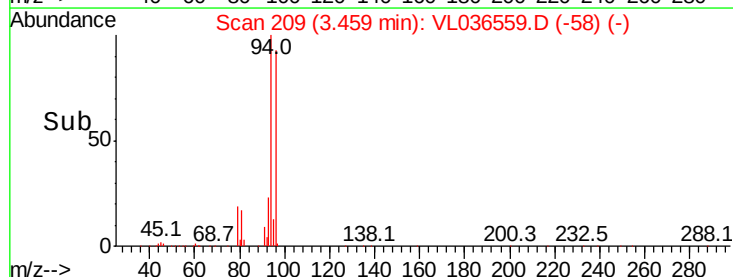
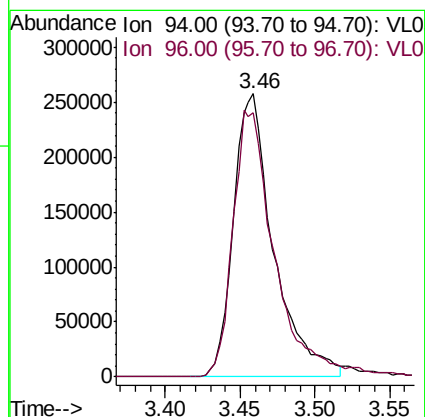
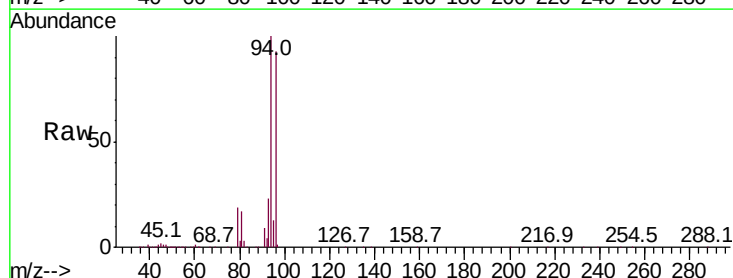
Acq: 30 Mar 2021 5:51

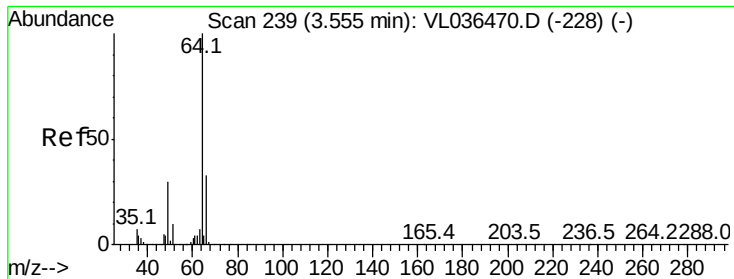
Tgt Ion: 94 Resp: 481296

Ion Ratio Lower Upper

94 100

96 93.3 74.9 112.3





#7

Chloroethane

Concen: 9.058 ppbv

RT: 3.54 min Scan# 234

Delta R.T. -0.02 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 307532

Ion Ratio Lower Upper

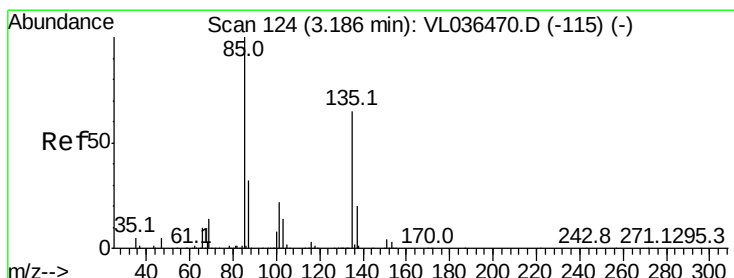
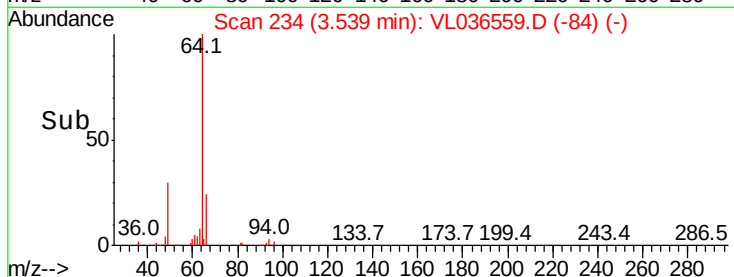
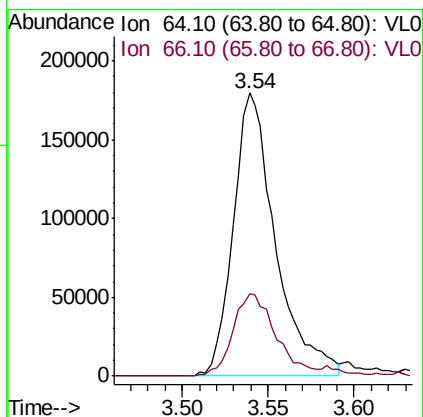
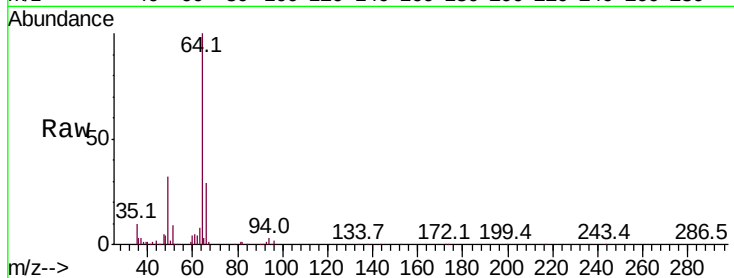
64 100

66 29.2 26.2 39.2

Manual Integrations  
APPROVED

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4/1/2021 10:57:21 AM



#8

Dichlorotetrafluoroethane

Concen: 8.974 ppbv

RT: 3.17 min Scan# 120

Delta R.T. -0.01 min

Lab File: VL036559.D

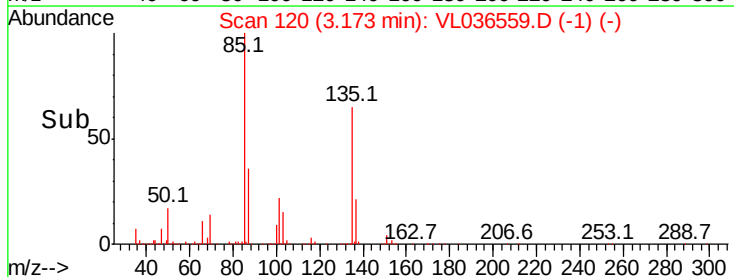
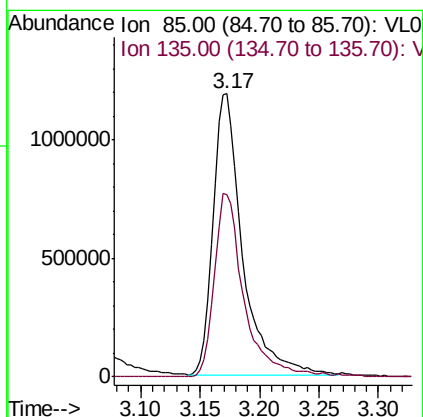
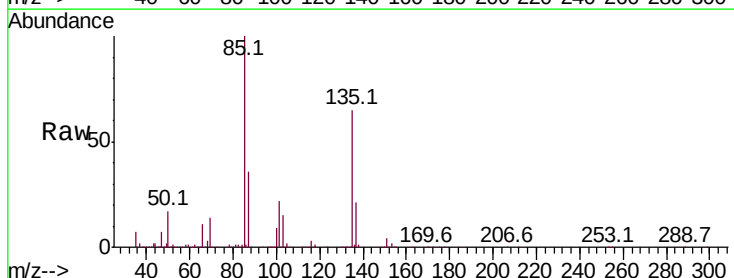
Acq: 30 Mar 2021 5:51

Tgt Ion: 85 Resp: 2034001

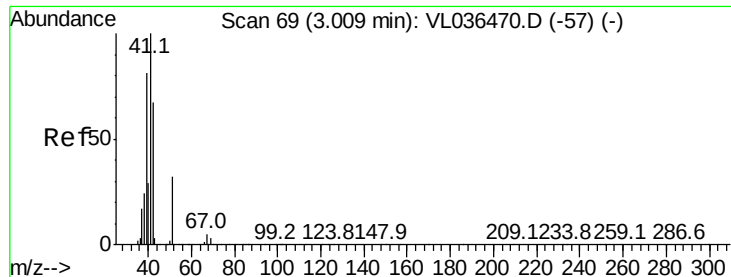
Ion Ratio Lower Upper

85 100

135 66.7 54.3 81.5







#9

Propene

Concen: 8.989 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.02 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 779594

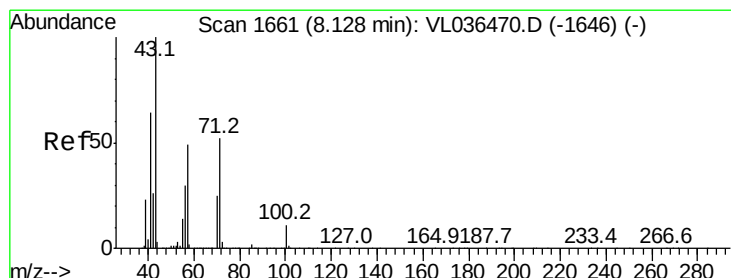
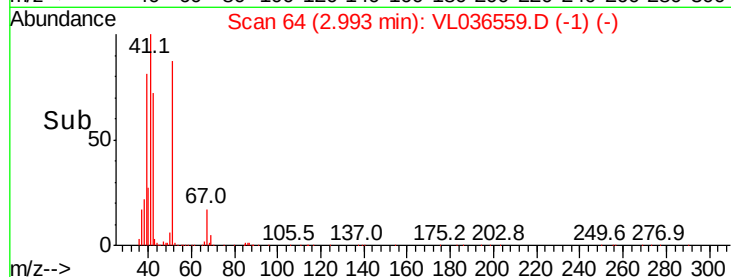
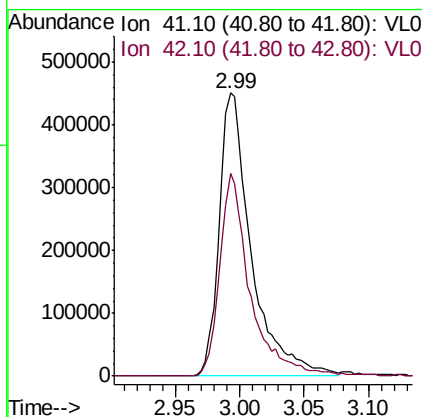
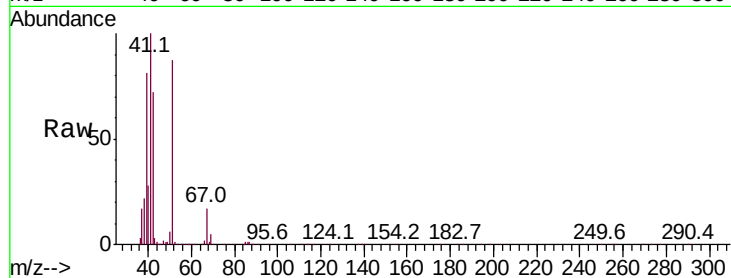
Ion Ratio Lower Upper

41 100

42 68.5 57.0 85.4

Manual Integrations  
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4/1/2021 10:57:21 AM



#10

Heptane

Concen: 9.158 ppbv

RT: 8.10 min Scan# 1652

Delta R.T. -0.03 min

Lab File: VL036559.D

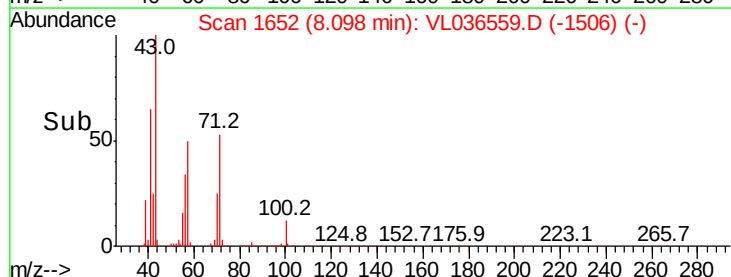
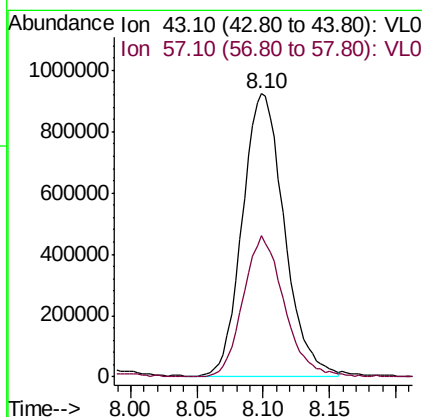
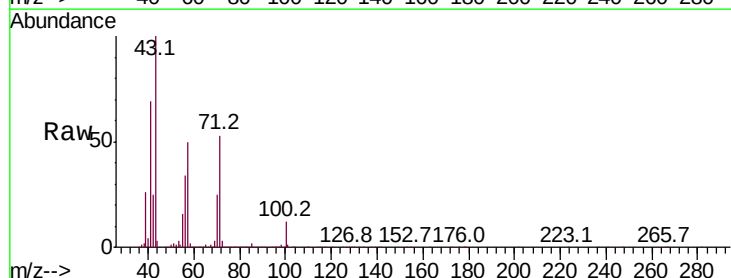
Acq: 30 Mar 2021 5:51

Tgt Ion: 43 Resp: 2023337

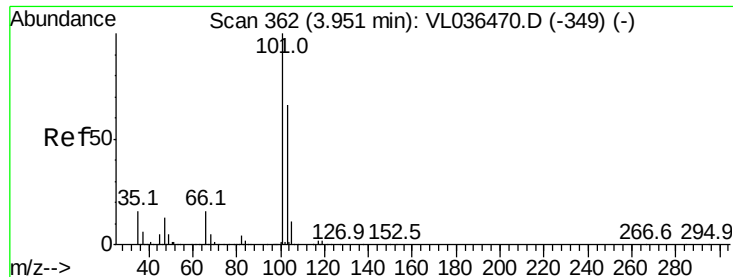
Ion Ratio Lower Upper

43 100

57 48.8 39.0 58.6







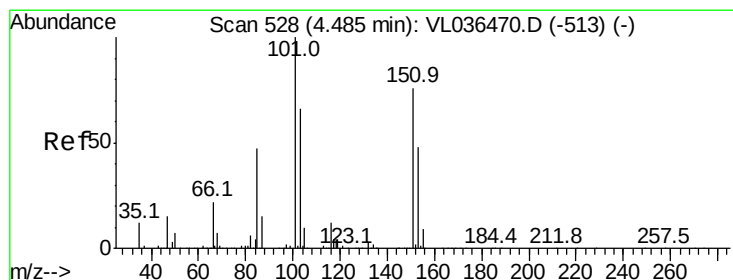
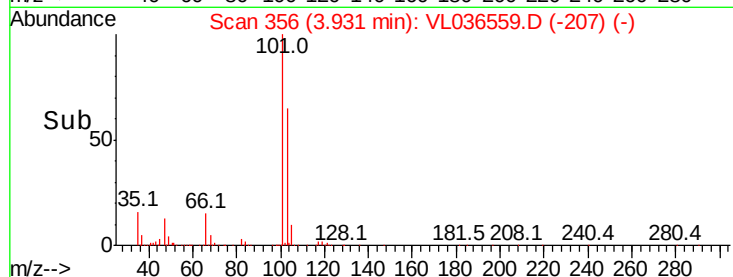
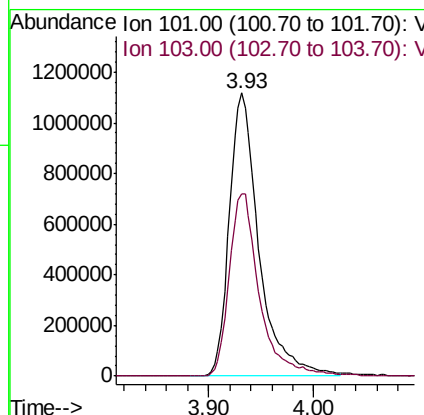
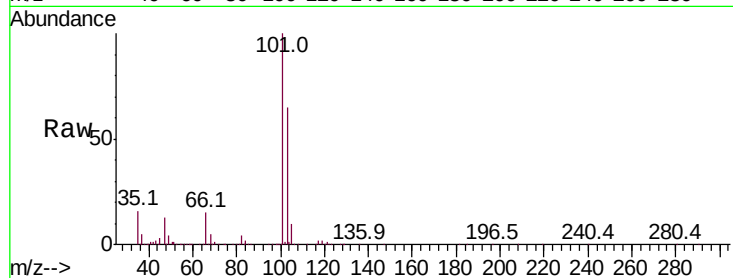
#11  
 Trichlorofluoromethane  
 Concen: 9.002 ppbv  
 RT: 3.93 min Scan# 356  
 Delta R.T. -0.02 min  
 Lab File: VL036559.D  
 Acq: 30 Mar 2021 5:51

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tot Ion:101 Resp: 2178656  
 Ion Ratio Lower Upper  
 101 100  
 103 64.6 52.5 78.7

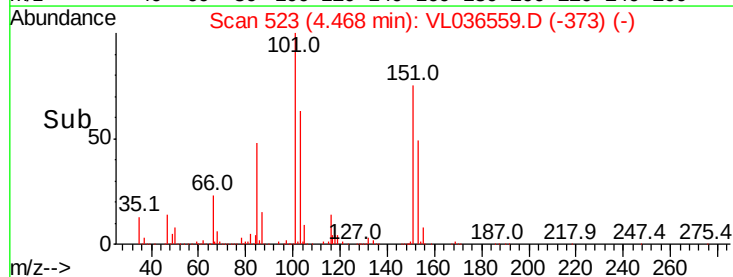
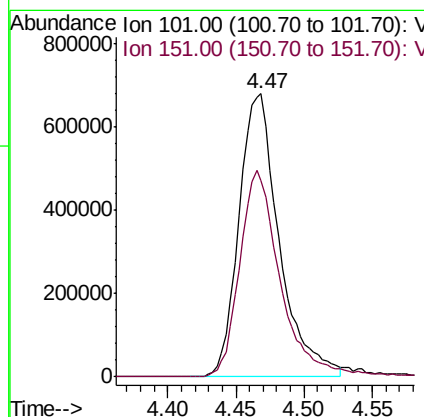
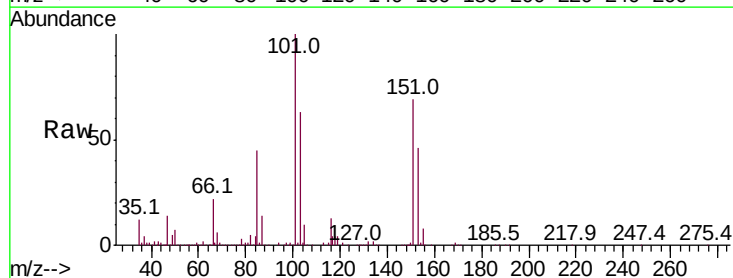
Manual Integrations  
 APPROVED

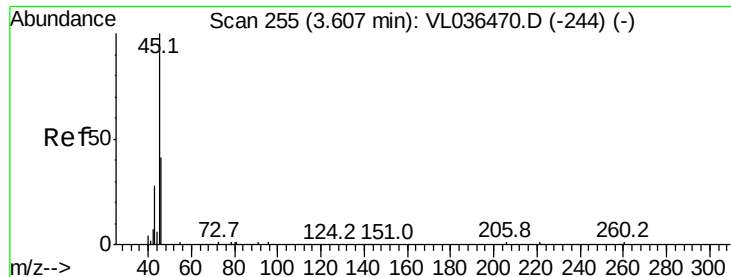
MMDadoda  
 4/1/2021 10:57:21 AM



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.027 ppbv  
 RT: 4.47 min Scan# 523  
 Delta R.T. -0.02 min  
 Lab File: VL036559.D  
 Acq: 30 Mar 2021 5:51

Tgt Ion:101 Resp: 1396882  
 Ion Ratio Lower Upper  
 101 100  
 151 74.3 60.9 91.3





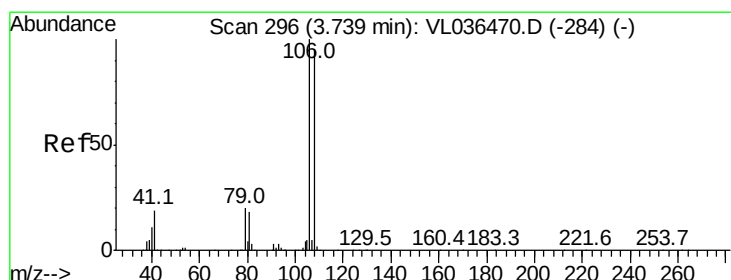
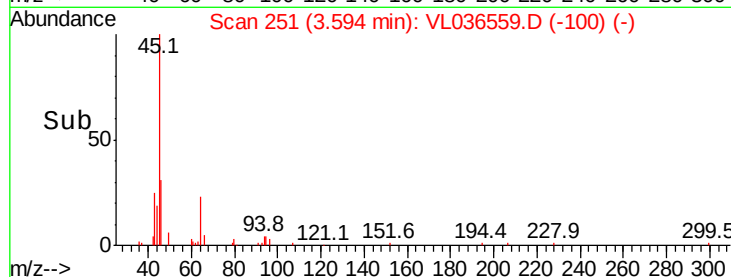
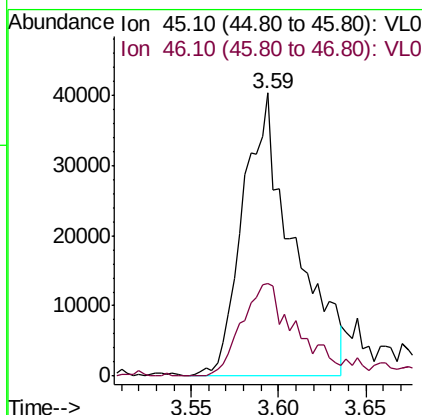
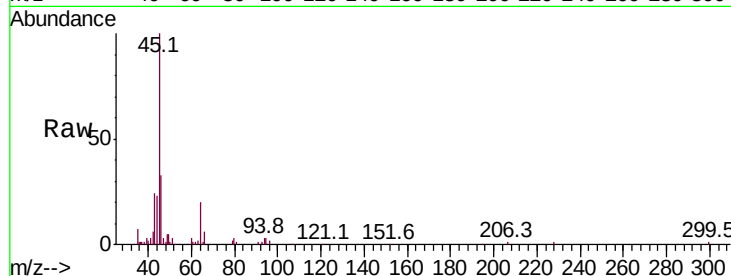
#13  
Ethanol  
Concen: 7.898 ppbv m  
RT: 3.59 min Scan# 251  
Delta R.T. -0.01 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

| Tot Ion | 45   | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 45      | 100  |       |       |       |
| 46      | 40.8 | 16.6  | 66.2  |       |

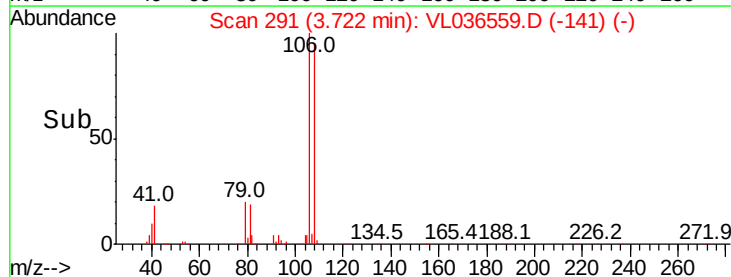
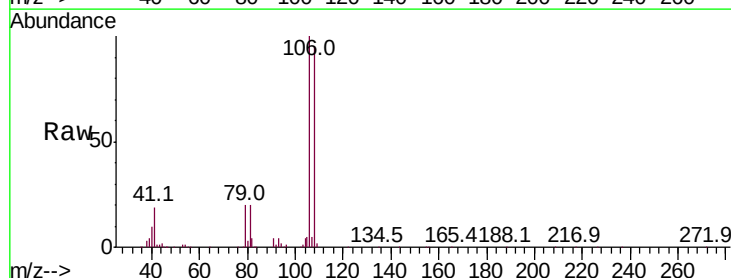
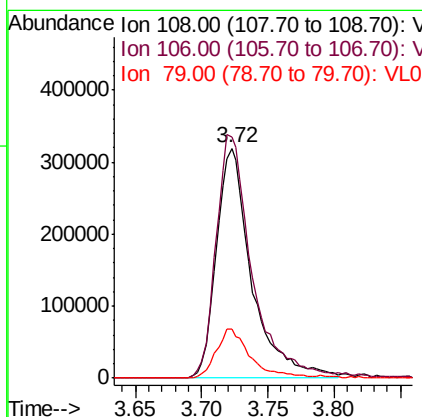
Manual Integrations  
APPROVED

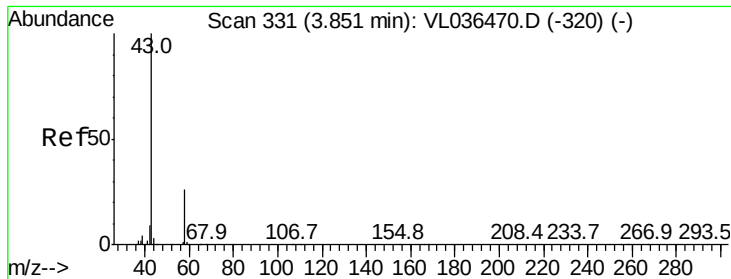
MMDadoda  
4/1/2021 10:57:21 AM



#14  
Bromoethene  
Concen: 9.158 ppbv  
RT: 3.72 min Scan# 291  
Delta R.T. -0.02 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

| Tgt Ion | 108   | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 108     | 100   |       |       |       |
| 106     | 110.2 | 89.0  | 133.6 |       |
| 79      | 21.9  | 16.6  | 25.0  |       |





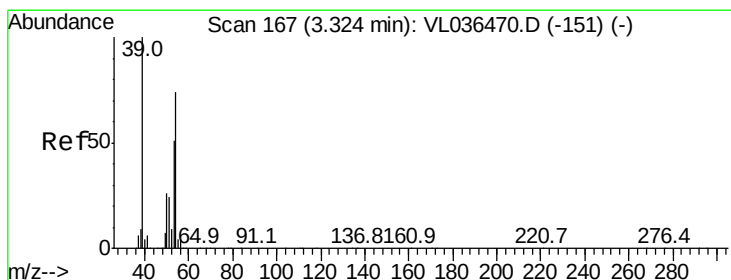
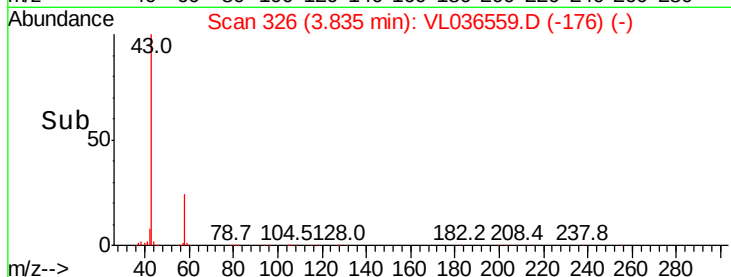
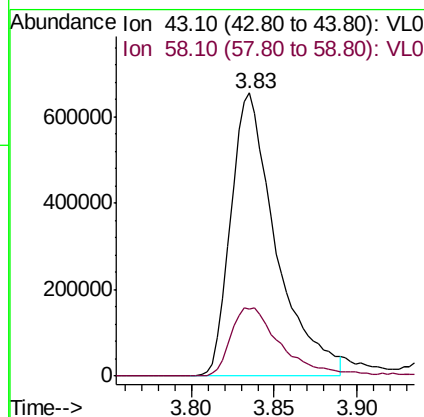
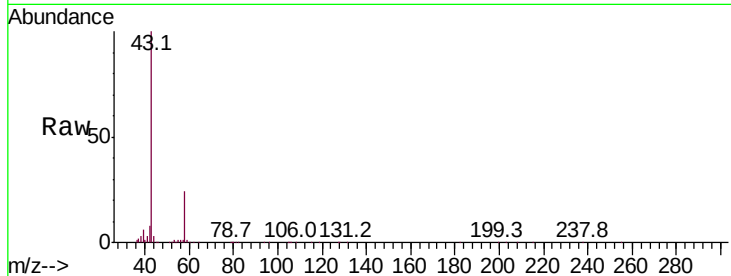
#15  
Acetone  
Concen: 8.629 ppbv  
RT: 3.83 min Scan# 326  
Delta R.T. -0.02 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 43 Resp: 1236621  
Ion Ratio Lower Upper  
43 100  
58 27.6 21.2 31.8

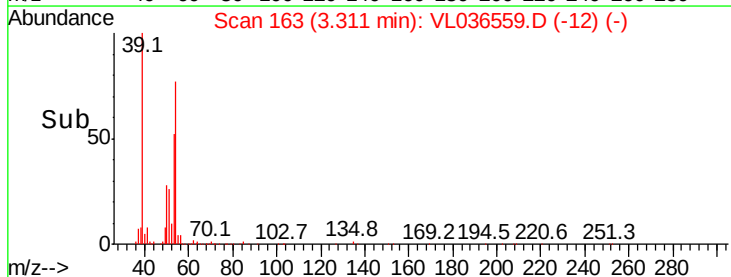
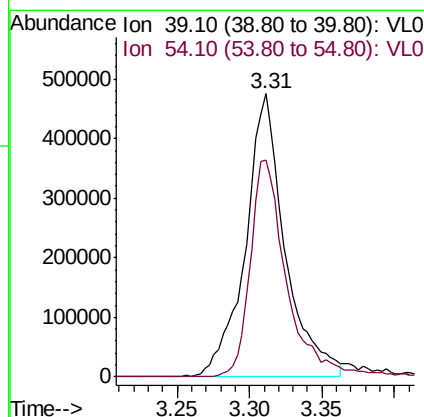
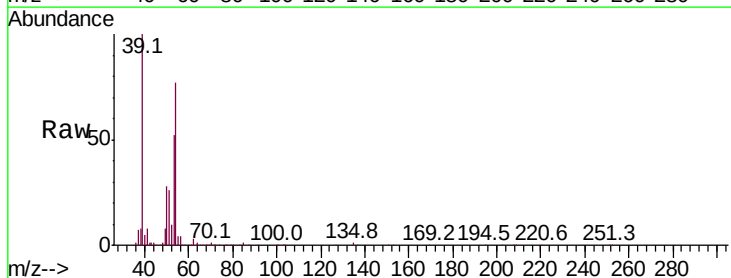
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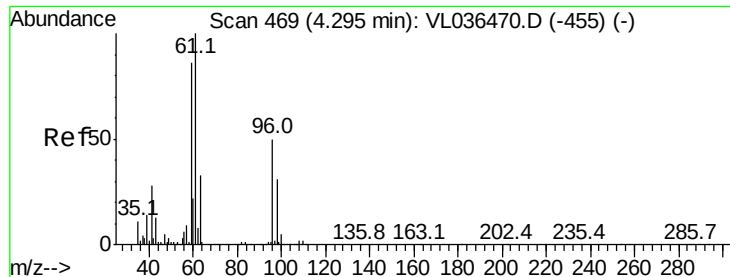
MMDadoda  
4/1/2021 10:57:21 AM



#16  
1,3-Butadiene  
Concen: 8.980 ppbv  
RT: 3.31 min Scan# 163  
Delta R.T. -0.01 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

Tgt Ion: 39 Resp: 896009  
Ion Ratio Lower Upper  
39 100  
54 72.1 58.8 88.2





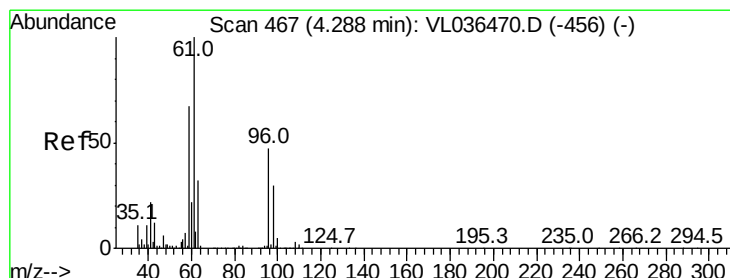
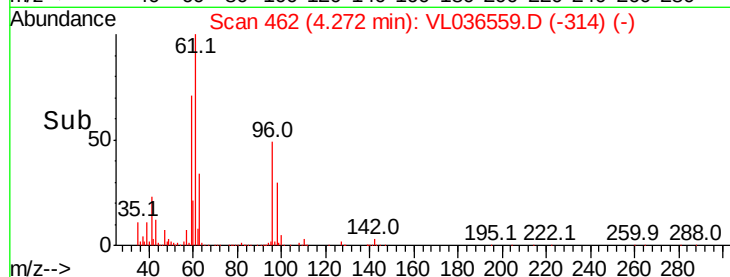
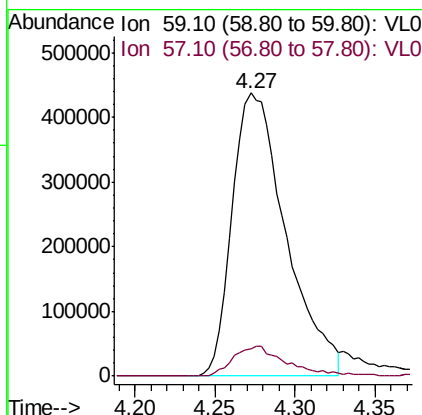
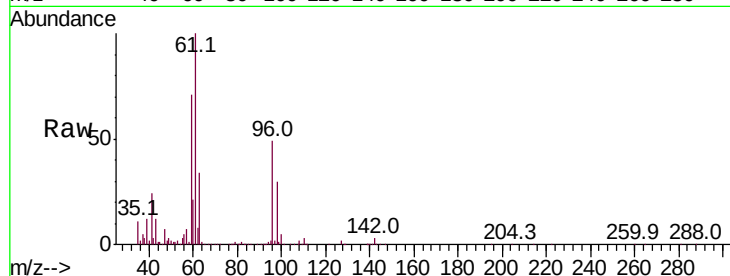
#17  
tert-Butyl alcohol  
Concen: 8.066 ppbv  
RT: 4.27 min Scan# 462  
Delta R.T. -0.02 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 59 Resp: 1006250  
Ion Ratio Lower Upper  
59 100  
57 11.4 8.6 12.8

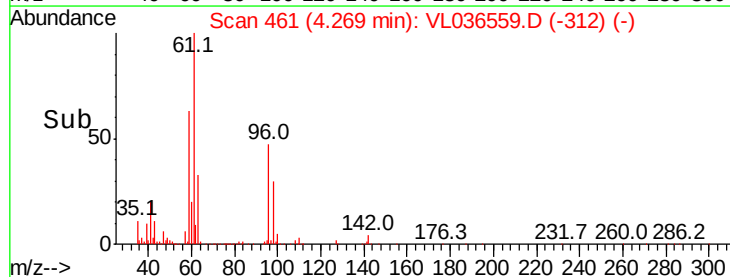
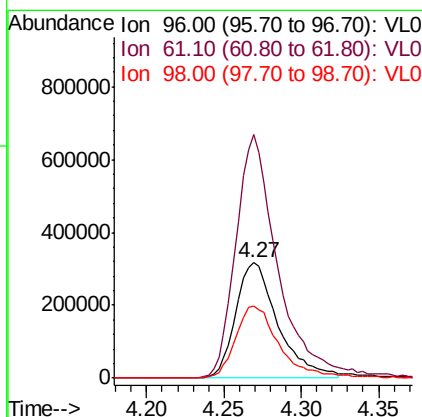
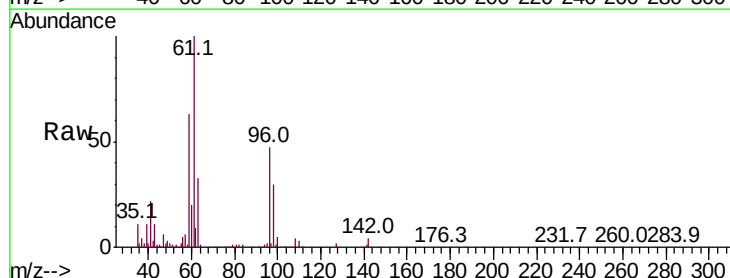
Manual Integrations  
APPROVED

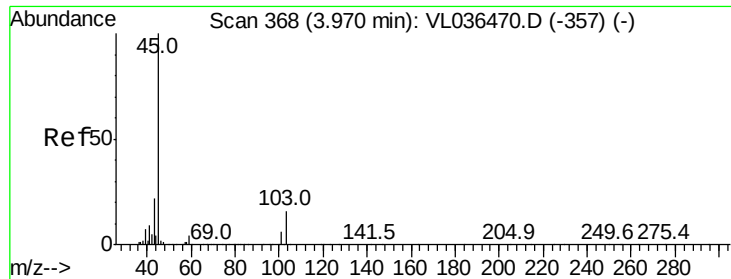
MMDadoda  
4/1/2021 10:57:21 AM



#18  
1,1-Dichloroethene  
Concen: 8.736 ppbv  
RT: 4.27 min Scan# 461  
Delta R.T. -0.02 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

Tgt Ion: 96 Resp: 601325  
Ion Ratio Lower Upper  
96 100  
61 210.8 168.6 253.0  
98 62.9 50.8 76.2





#19

Isopropyl Alcohol

Concen: 7.277 ppbv m

RT: 3.95 min Scan# 363

Delta R.T. -0.02 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 573654

Ion Ratio Lower Upper

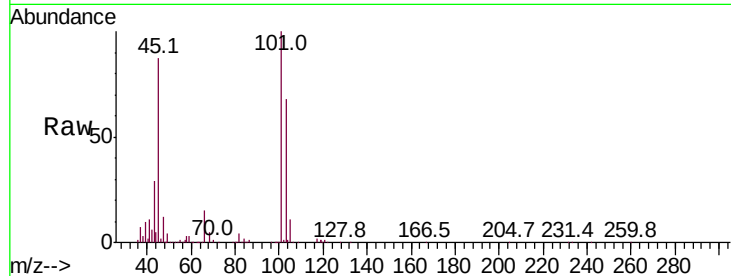
45 100

58 4.0 2.9 4.3

Manual Integrations  
APPROVED

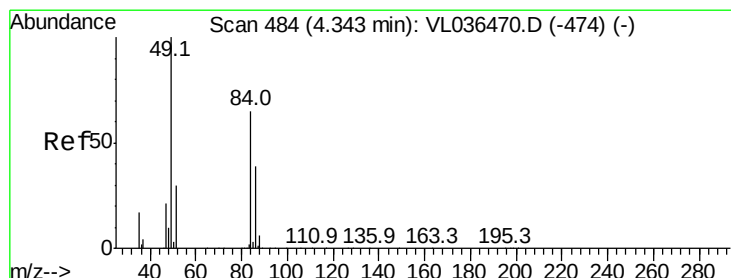
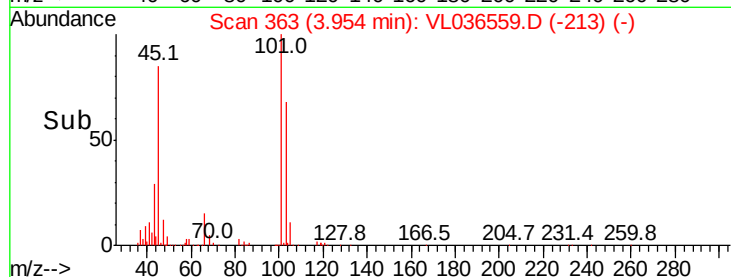
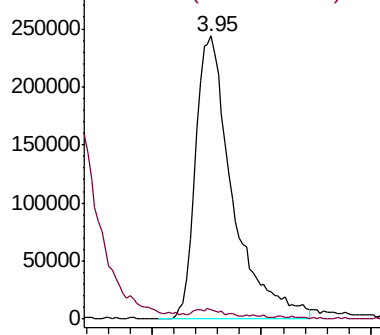
MMDadoda

4/1/2021 10:57:21 AM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 8.350 ppbv

RT: 4.32 min Scan# 478

Delta R.T. -0.02 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

Tgt Ion: 84 Resp: 560276

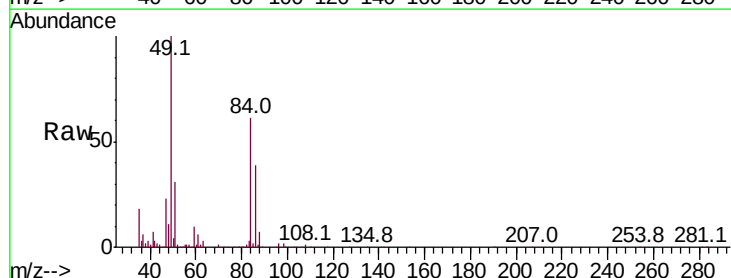
Ion Ratio Lower Upper

84 100

49 158.9 122.9 184.3

51 48.6 36.9 55.3

86 63.9 48.2 72.4

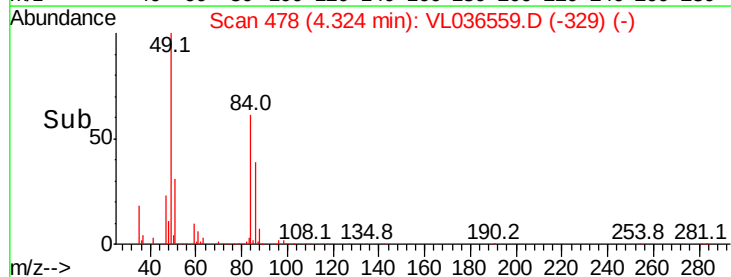
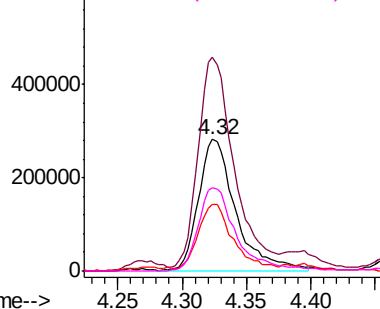


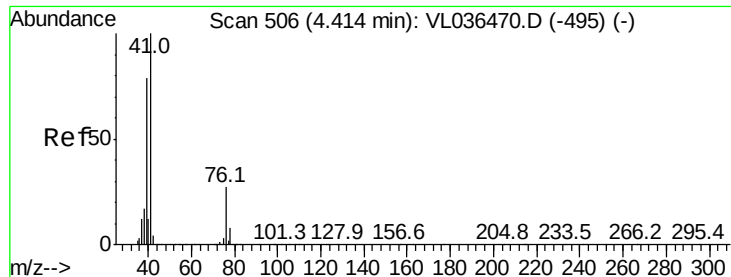
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





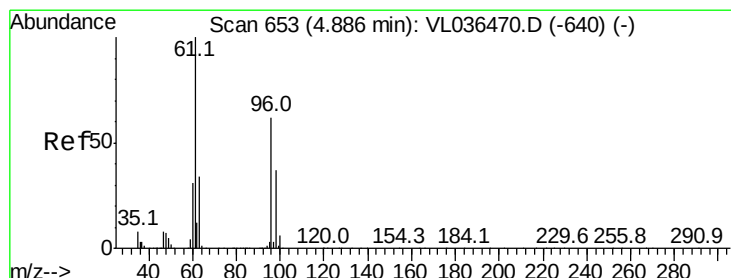
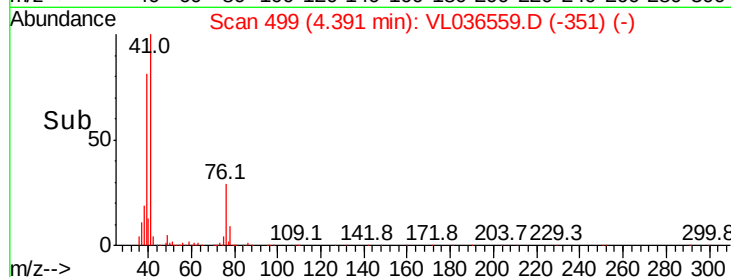
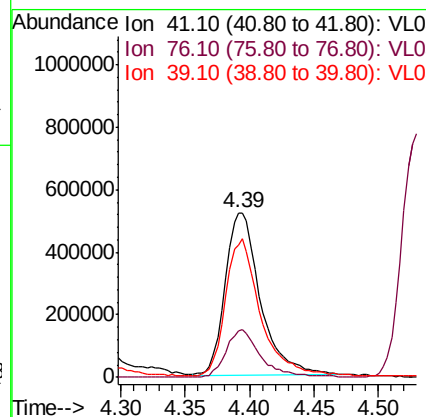
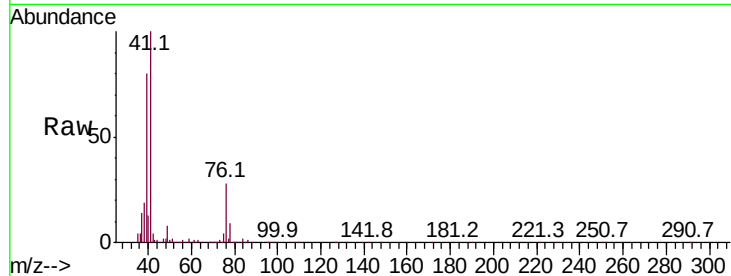
#21  
Allvl Chloride  
Concen: 8.662 ppbv  
RT: 4.39 min Scan# 499  
Delta R.T. -0.02 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 76      | 28.8  | 22.9  | 34.3  |
| 39      | 84.7  | 67.3  | 100.9 |

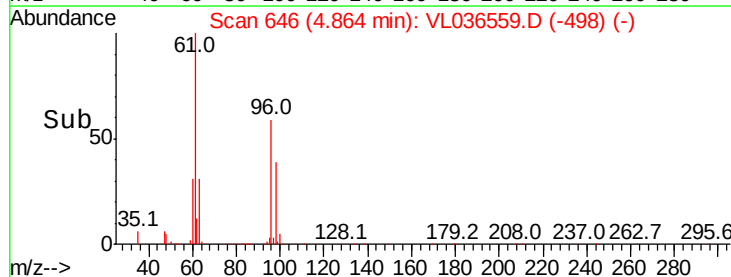
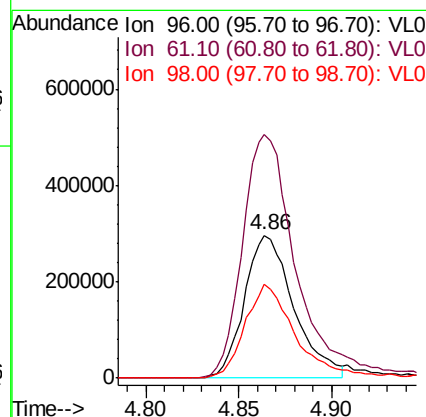
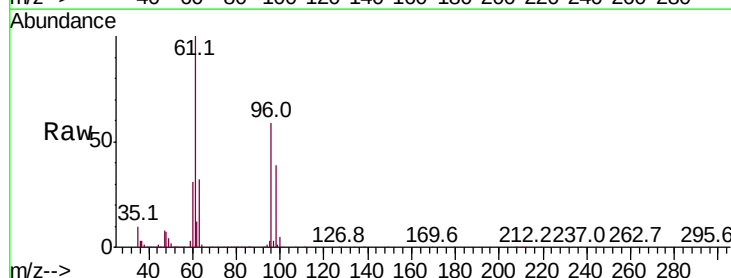
Manual Integrations  
APPROVED

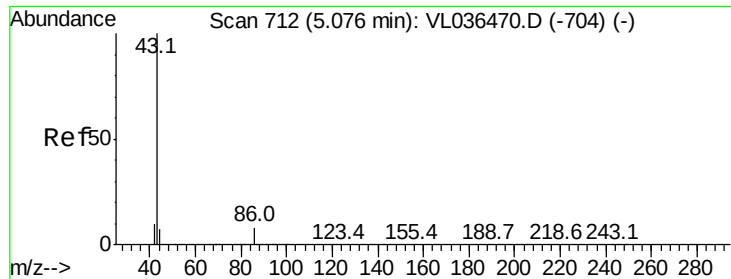
MMDadoda  
4/1/2021 10:57:21 AM



#22  
trans-1,2-Dichloroethene  
Concen: 8.647 ppbv  
RT: 4.86 min Scan# 646  
Delta R.T. -0.02 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 170.5 | 129.4 | 194.0 |
| 98      | 66.2  | 48.2  | 72.4  |





#23

Vinyl Acetate

Concen: 9.201 ppbv

RT: 5.05 min Scan# 705

Delta R.T. -0.02 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2255562

Ion Ratio Lower Upper

43 100

86 6.9 5.4 8.0

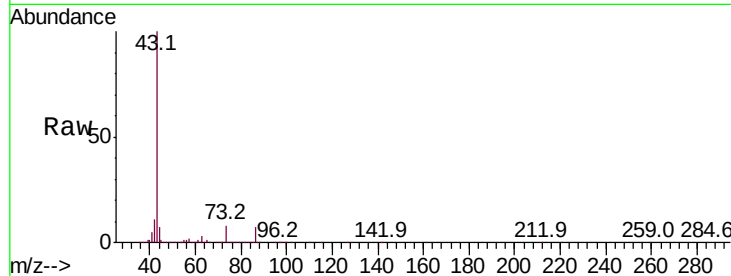
42 10.4 8.5 12.7

44 6.2 4.6 7.0

Manual Integrations  
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MMDadoda

4/1/2021 10:57:21 AM

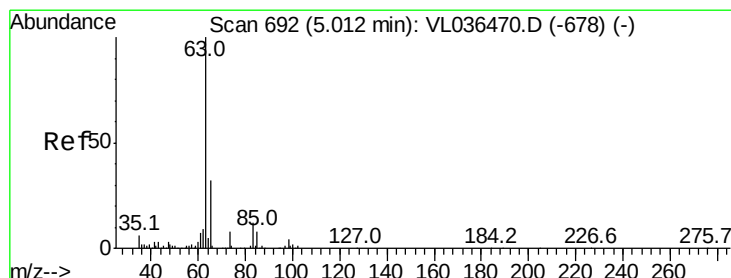
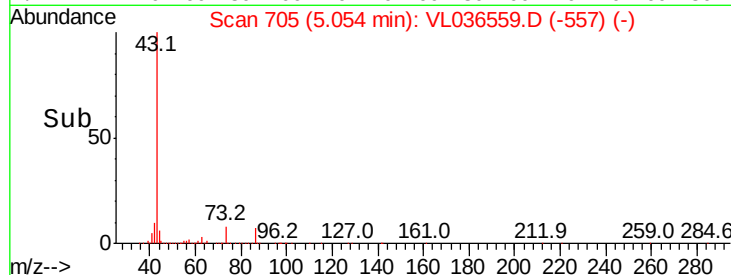
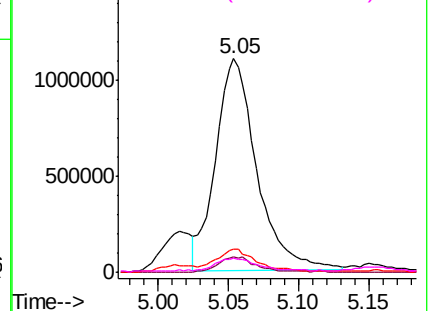


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.037 ppbv

RT: 4.99 min Scan# 686

Delta R.T. -0.02 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

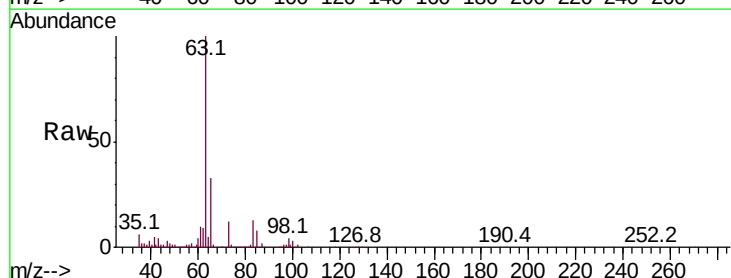
Tgt Ion: 63 Resp: 1614658

Ion Ratio Lower Upper

63 100

98 4.2 2.1 6.2

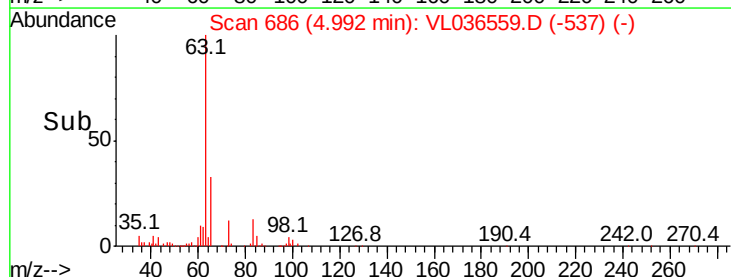
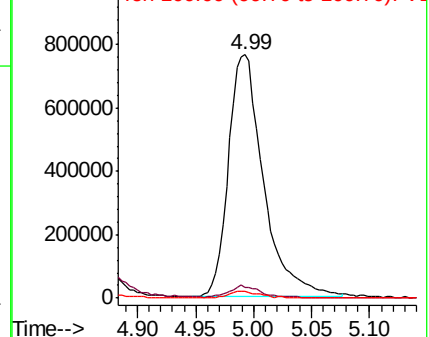
100 2.6 0.9 2.8



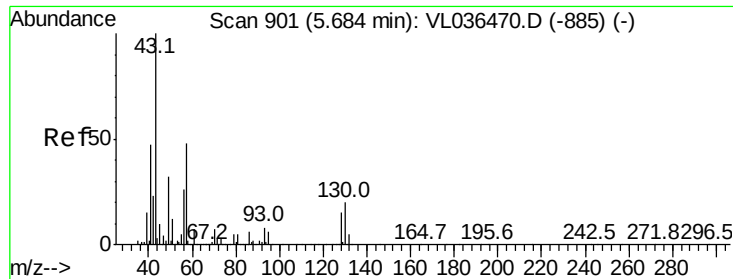
Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0







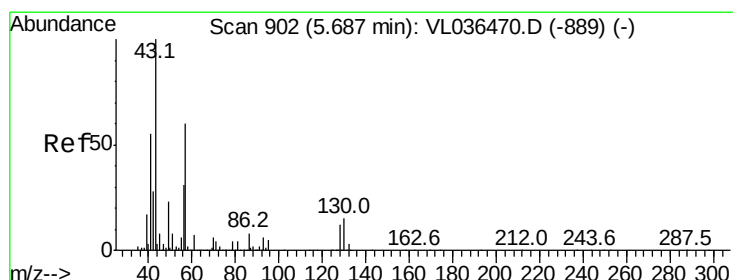
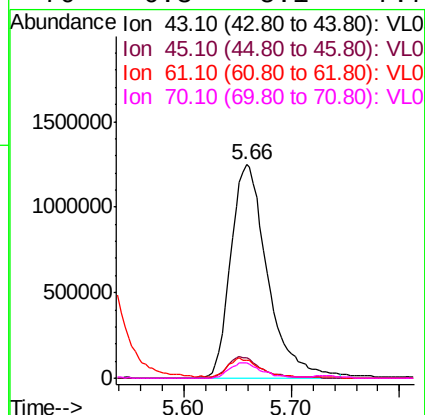
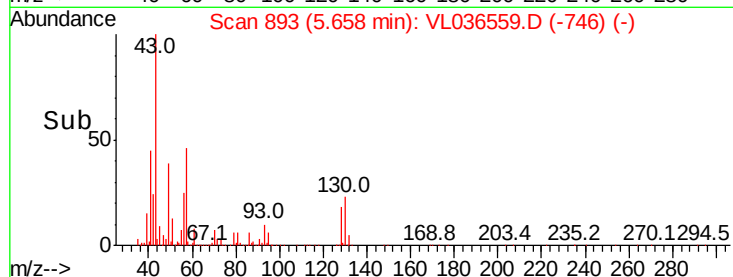
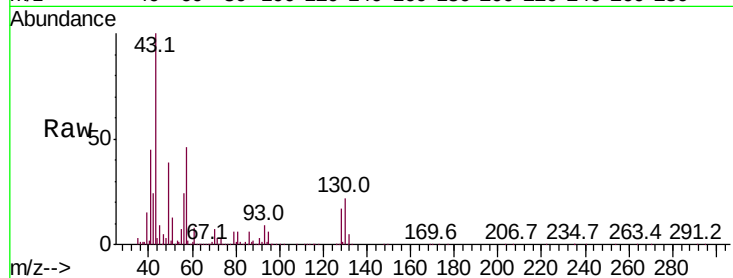
#25  
Ethyl Acetate  
Concen: 8.699 ppbv  
RT: 5.66 min Scan# 893  
Delta R.T. -0.03 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 45      | 9.4   | 7.9   | 11.9  |
| 61      | 9.1   | 7.4   | 11.2  |
| 70      | 6.3   | 5.1   | 7.7   |

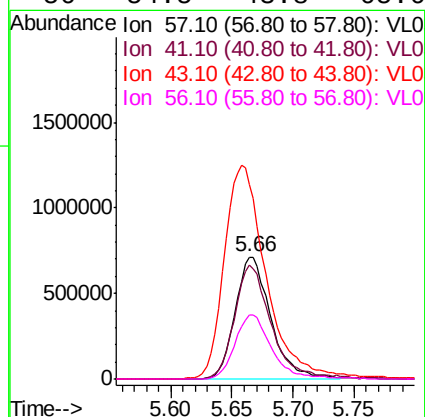
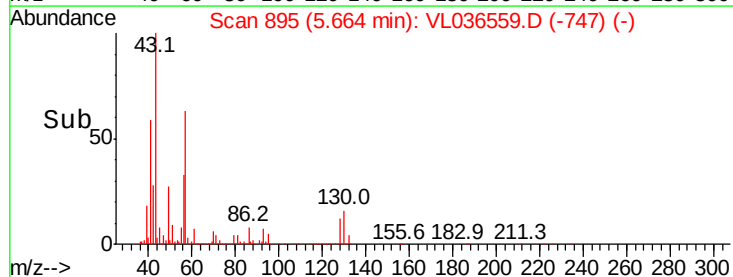
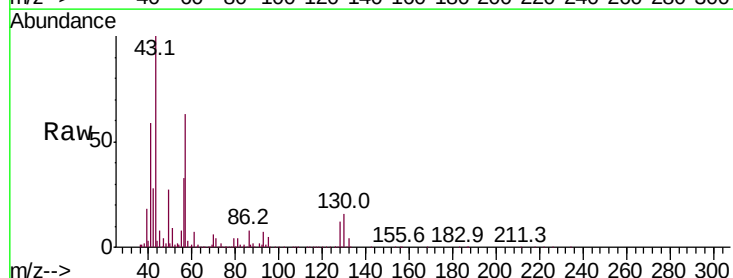
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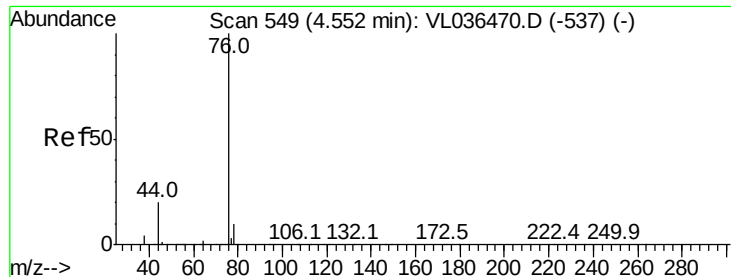
MMDadoda  
4/1/2021 10:57:21 AM



#26  
Hexane  
Concen: 9.134 ppbv  
RT: 5.66 min Scan# 895  
Delta R.T. -0.02 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 96.8  | 77.2  | 115.8 |
| 43      | 208.3 | 173.8 | 260.6 |
| 56      | 54.5  | 43.8  | 65.6  |





#27

Carbon Disulfide

Concen: 9.658 ppbv

RT: 4.53 min Scan# 542

Delta R.T. -0.02 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

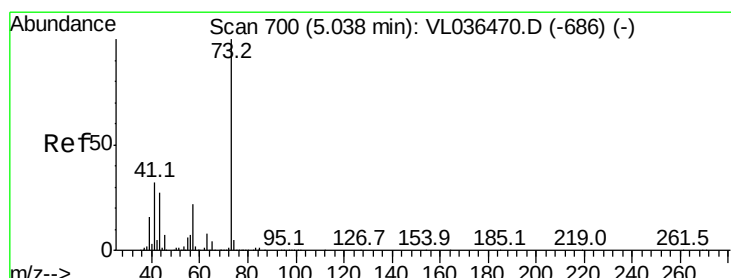
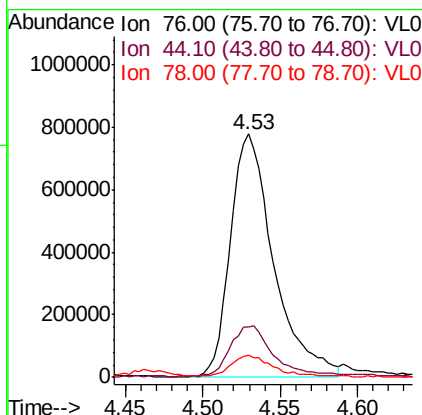
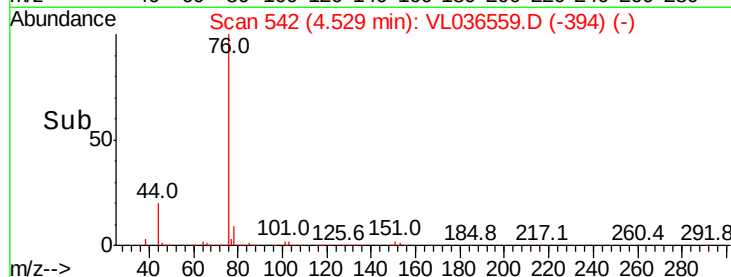
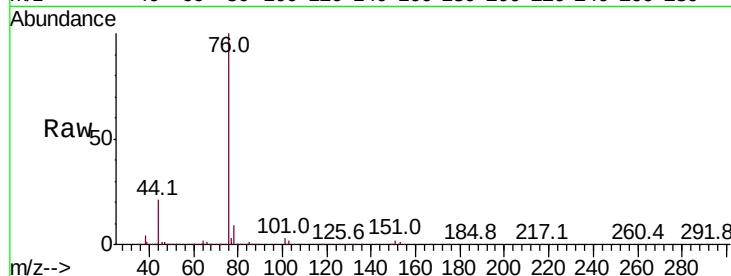
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 76 Resp: 1504367

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 44  | 21.5  | 17.5  | 26.3  |
| 78  | 9.3   | 8.6   | 13.0  |

Manual Integrations  
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4/1/2021 10:57:21 AM



#28

Methyl tert-Butyl Ether

Concen: 8.362 ppbv

RT: 5.01 min Scan# 693

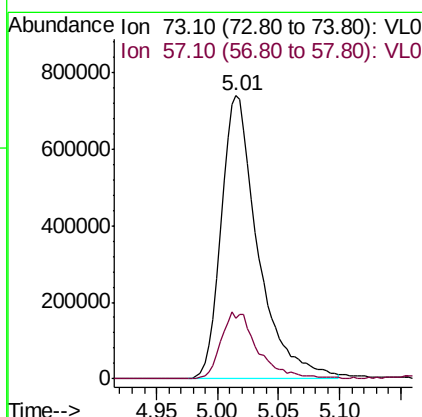
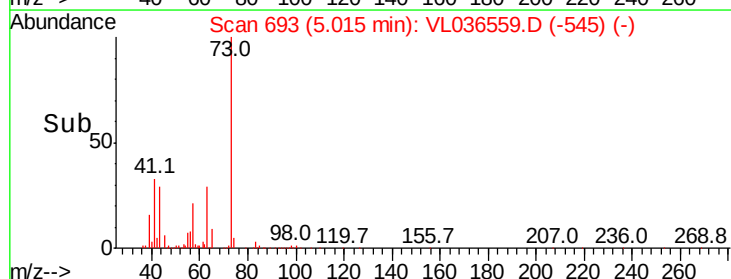
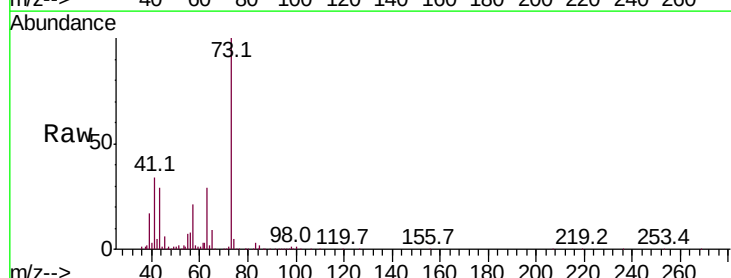
Delta R.T. -0.02 min

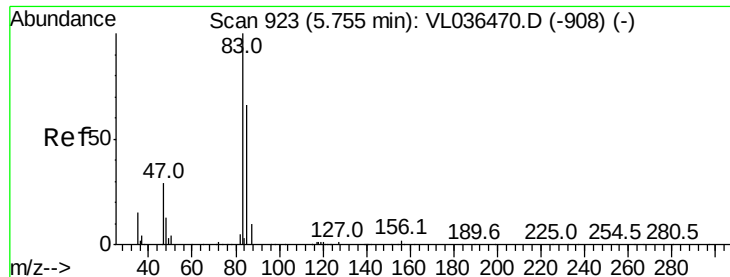
Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

Tgt Ion: 73 Resp: 1559160

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 57  | 23.8  | 18.5  | 27.7  |





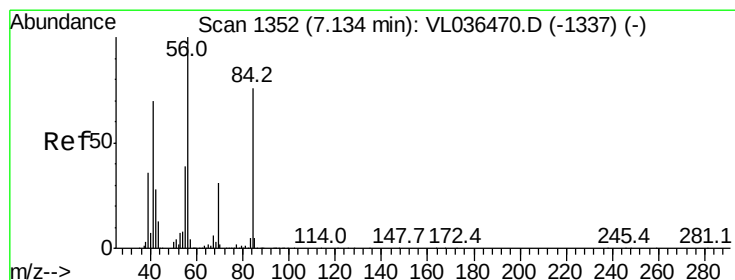
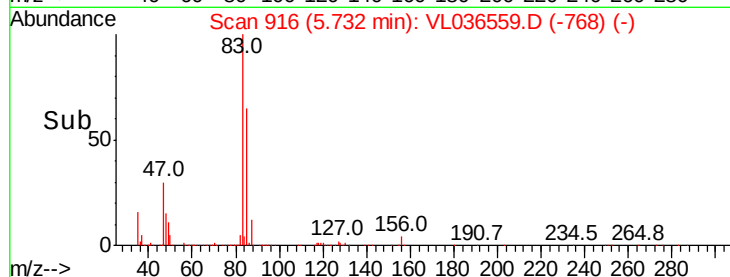
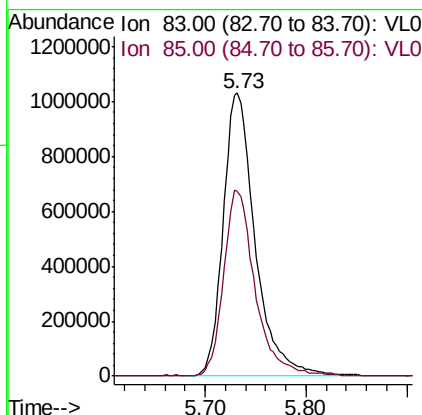
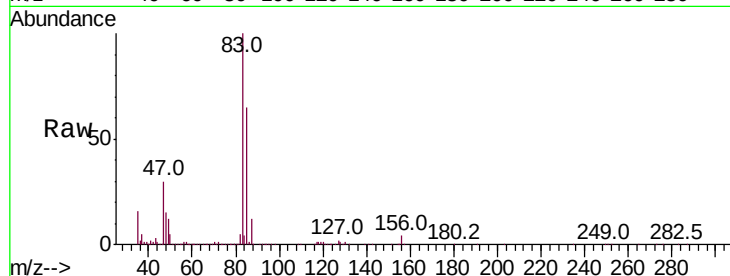
#29  
Chloroform  
Concen: 9.013 ppbv  
RT: 5.73 min Scan# 916  
Delta R.T. -0.02 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 83 Resp: 2279127  
Ion Ratio Lower Upper  
83 100  
85 65.2 52.6 78.8

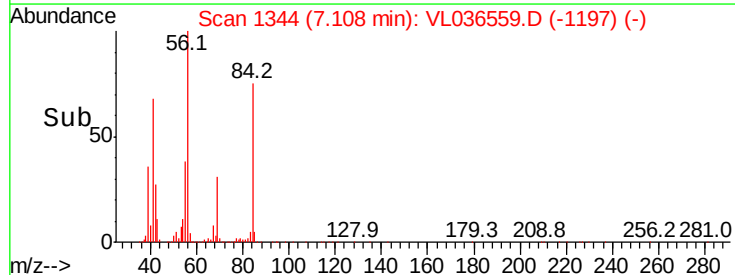
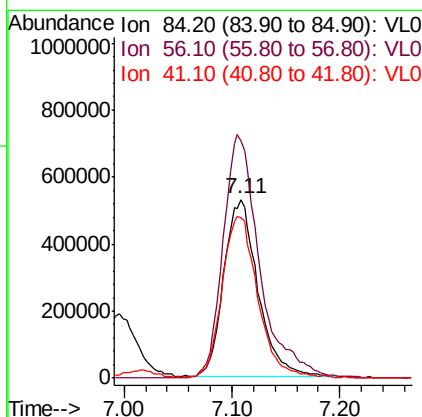
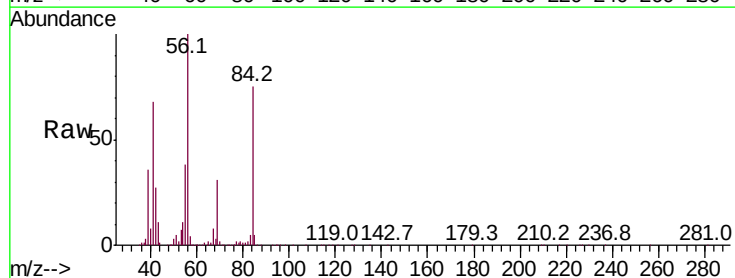
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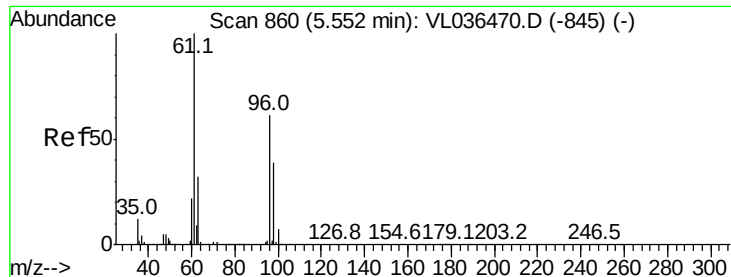
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#30  
Cyclohexane  
Concen: 9.128 ppbv  
RT: 7.11 min Scan# 1344  
Delta R.T. -0.03 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

Tgt Ion: 84 Resp: 1170482  
Ion Ratio Lower Upper  
84 100  
56 147.6 114.6 171.8  
41 95.1 75.3 112.9





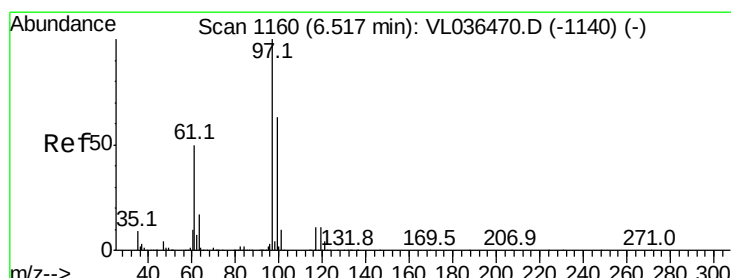
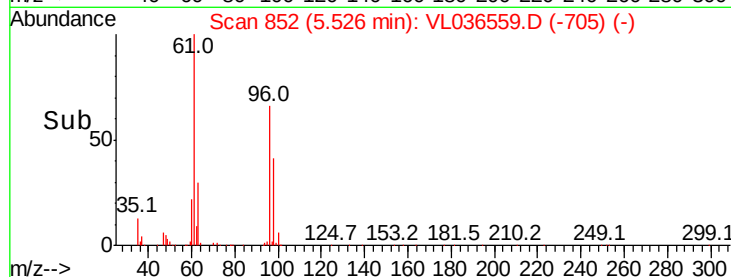
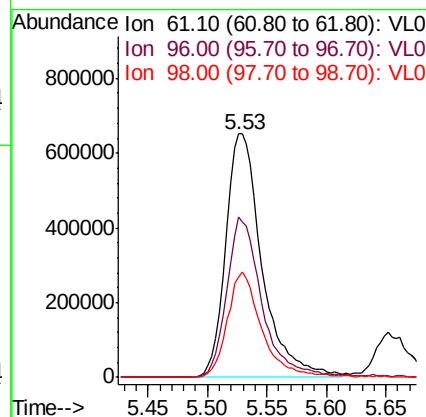
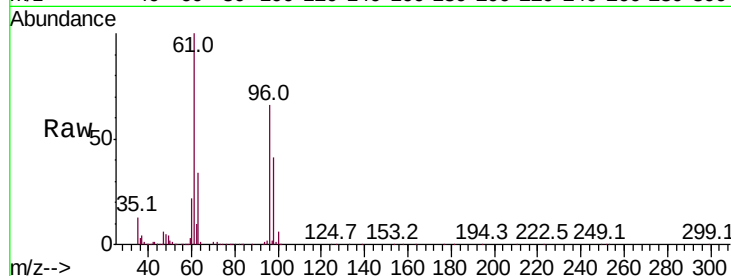
#31  
 cis-1,2-Dichloroethene  
 Concen: 8.968 ppbv  
 RT: 5.53 min Scan# 852  
 Delta R.T. -0.03 min  
 Lab File: VL036559.D  
 Acq: 30 Mar 2021 5:51

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tot Ion: 61 Resp: 1371490  
 Ion Ratio Lower Upper  
 61 100  
 96 65.9 48.7 73.1  
 98 41.1 31.4 47.0

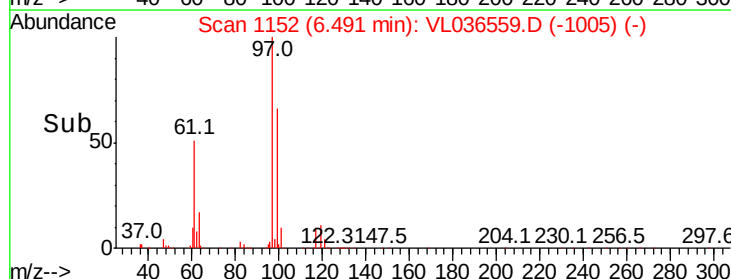
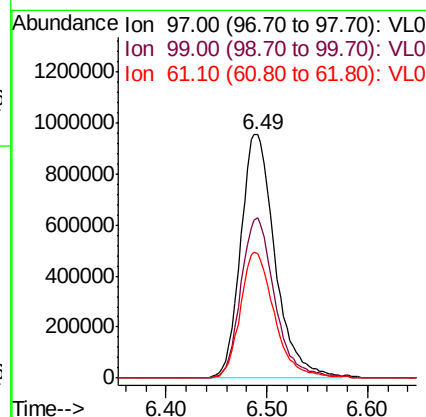
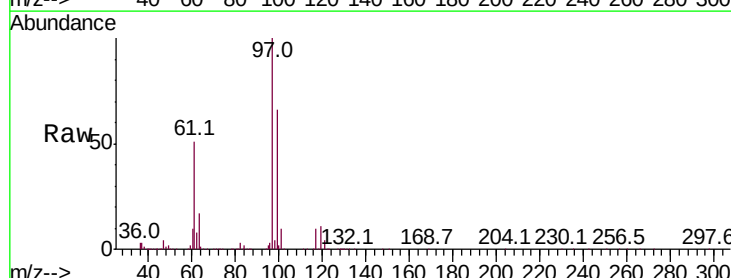
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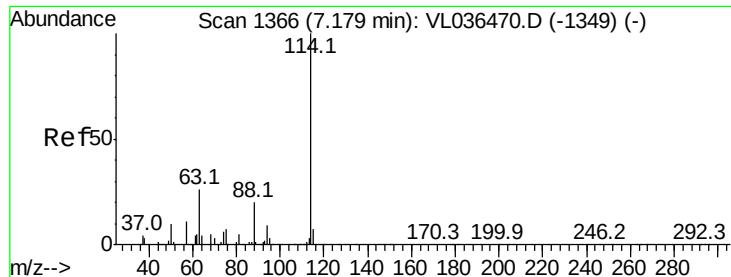
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#32  
 1,1,1-Trichloroethane  
 Concen: 8.848 ppbv  
 RT: 6.49 min Scan# 1152  
 Delta R.T. -0.03 min  
 Lab File: VL036559.D  
 Acq: 30 Mar 2021 5:51

Tgt Ion: 97 Resp: 2254851  
 Ion Ratio Lower Upper  
 97 100  
 99 65.3 51.4 77.0  
 61 51.3 40.6 60.8





#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.15 min Scan# 1358  
 Delta R.T. -0.03 min  
 Lab File: VL036559.D  
 Acq: 30 Mar 2021 5:51

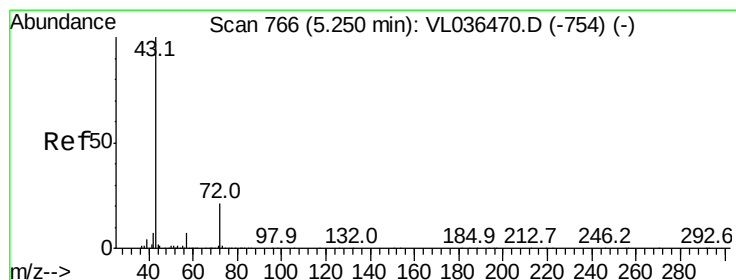
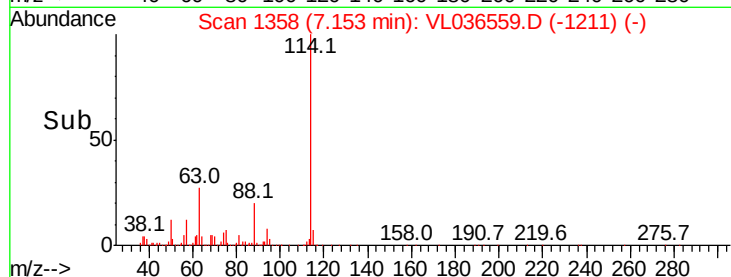
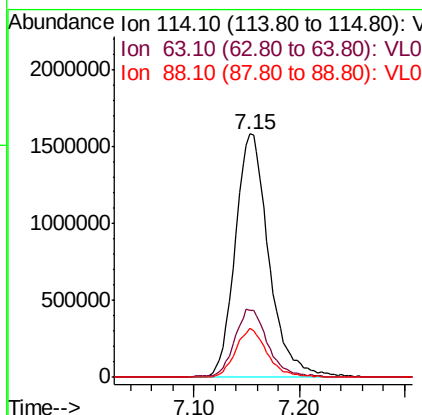
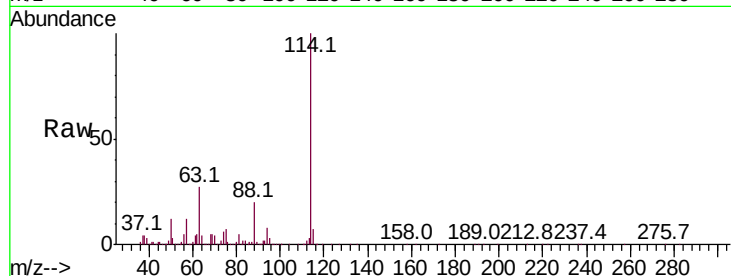
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tot Ion:114 Resp: 3490569  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 28.4  | 22.4  | 33.6  |
| 88  | 19.0  | 15.4  | 23.0  |

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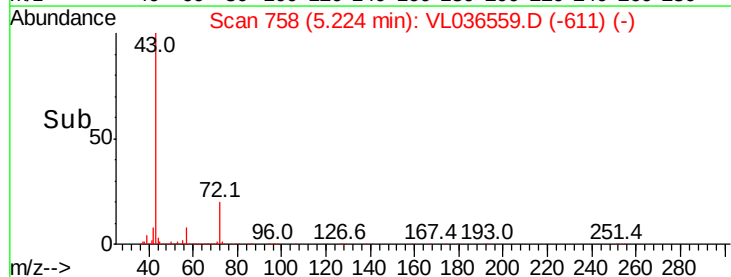
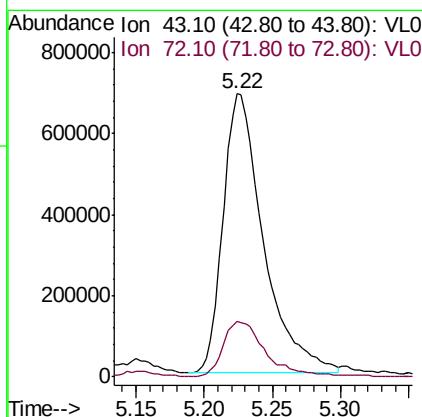
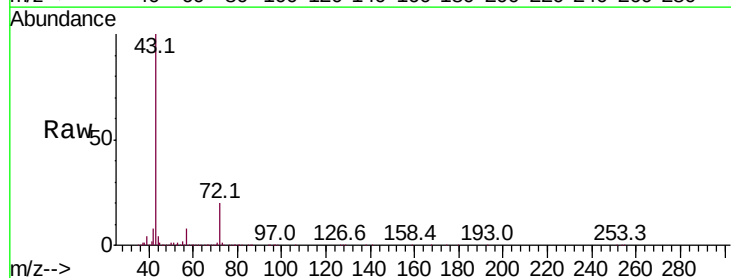
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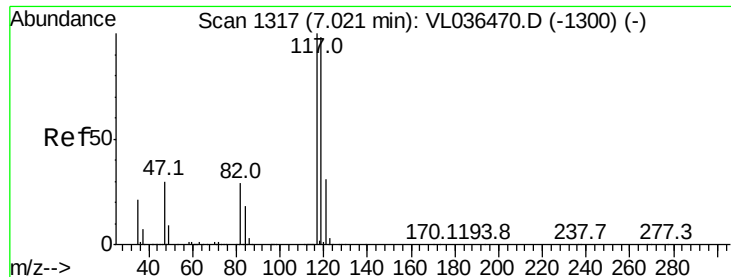


#34  
 2-Butanone  
 Concen: 8.339 ppbv  
 RT: 5.22 min Scan# 758  
 Delta R.T. -0.03 min  
 Lab File: VL036559.D  
 Acq: 30 Mar 2021 5:51

Tgt Ion: 43 Resp: 1420787  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 20.9  | 17.0  | 25.6  |





#35

Carbon Tetrachloride

Concen: 8.843 ppbv

RT: 7.00 min Scan# 1310

Delta R.T. -0.02 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 2370899

Ion Ratio Lower Upper

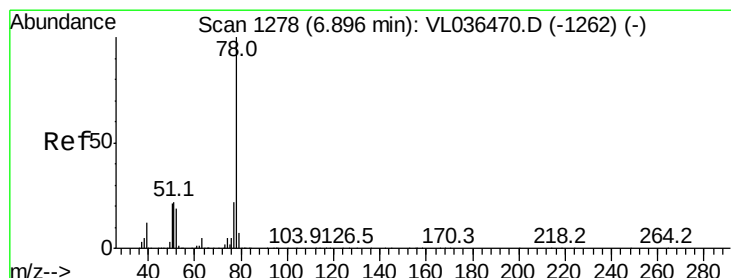
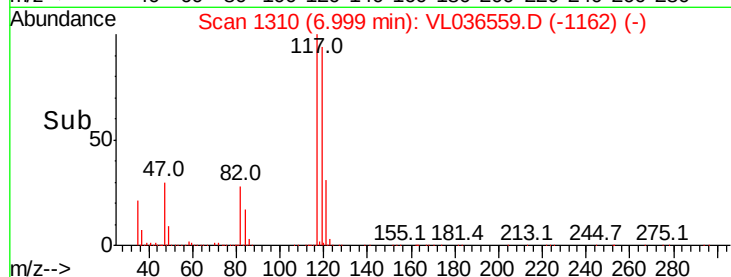
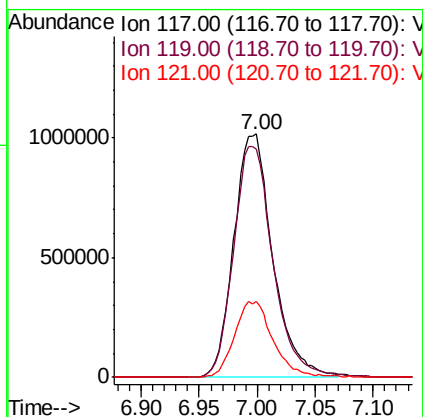
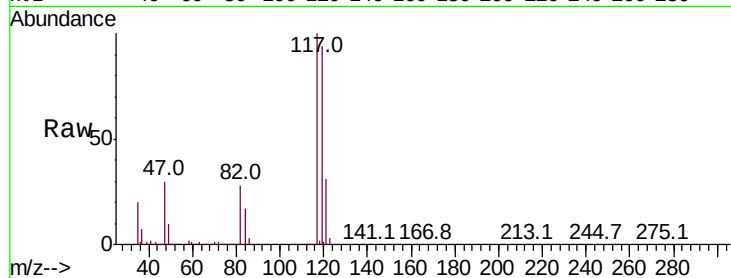
117 100

119 93.5 78.2 117.2

121 31.2 24.5 36.7

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#36

Benzene

Concen: 9.048 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. -0.03 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

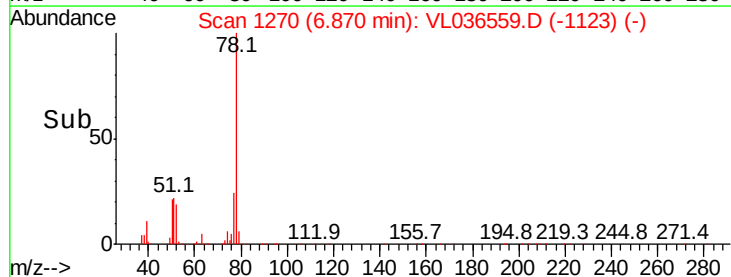
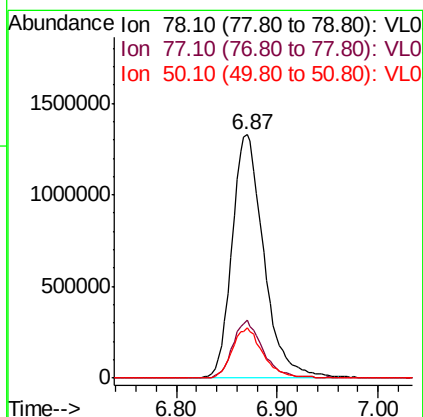
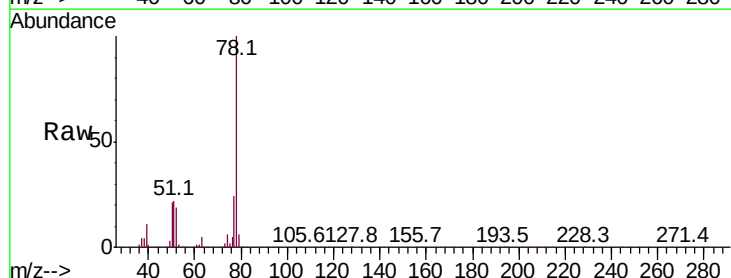
Tgt Ion: 78 Resp: 2912842

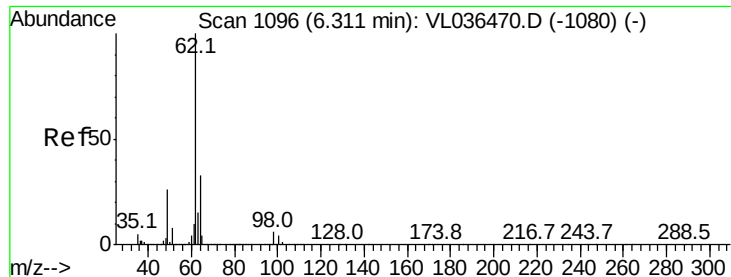
Ion Ratio Lower Upper

78 100

77 23.7 18.0 27.0

50 20.9 16.5 24.7





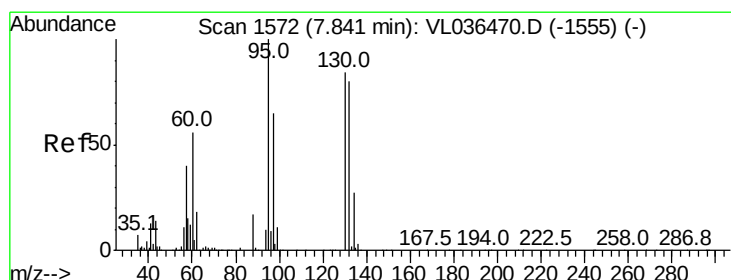
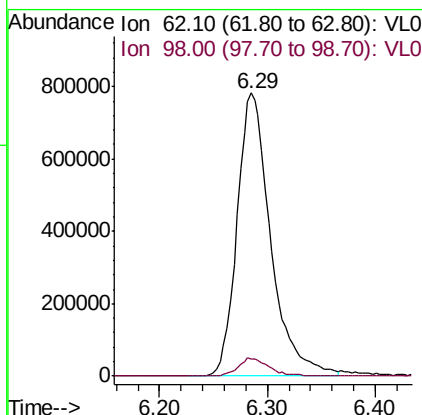
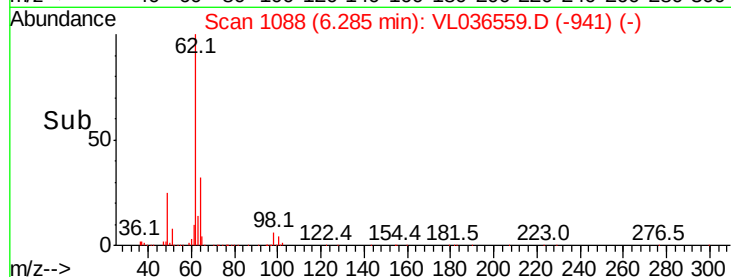
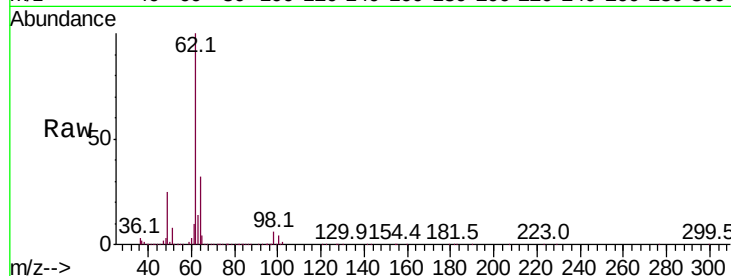
#37  
 1,2-Dichloroethane  
 Concen: 8.960 ppbv  
 RT: 6.29 min Scan# 1088  
 Delta R.T. -0.03 min  
 Lab File: VL036559.D  
 Acq: 30 Mar 2021 5:51

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tot Ion: 62 Resp: 1697685  
 Ion Ratio Lower Upper  
 62 100  
 98 6.0 4.9 7.3

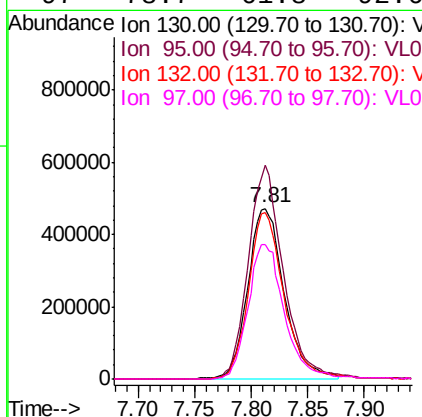
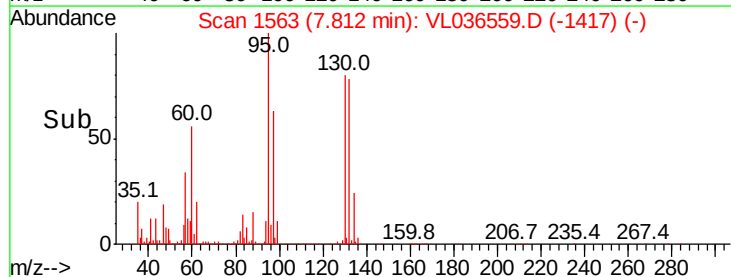
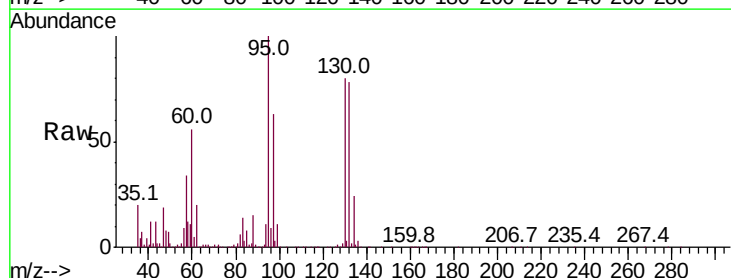
Manual Integrations  
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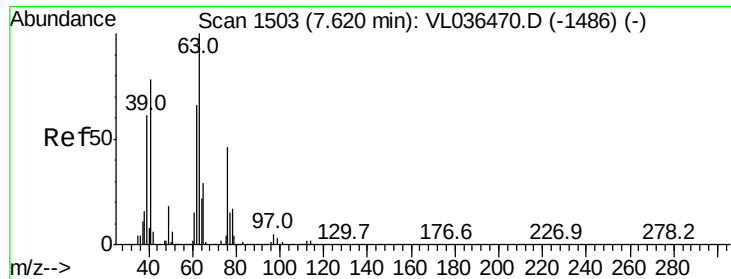
MMDadoda  
 4/1/2021 10:57:21 AM



#38  
 Trichloroethene  
 Concen: 8.428 ppbv  
 RT: 7.81 min Scan# 1563  
 Delta R.T. -0.03 min  
 Lab File: VL036559.D  
 Acq: 30 Mar 2021 5:51

Tgt Ion: 130 Resp: 1055910  
 Ion Ratio Lower Upper  
 130 100  
 95 125.2 95.7 143.5  
 132 97.7 76.2 114.4  
 97 78.7 61.8 92.6





#39

1,2-Dichloropropane

Concen: 8.976 ppbv

RT: 7.59 min Scan# 1494

Delta R.T. -0.03 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 63 Resp: 1172222

Ion Ratio Lower Upper

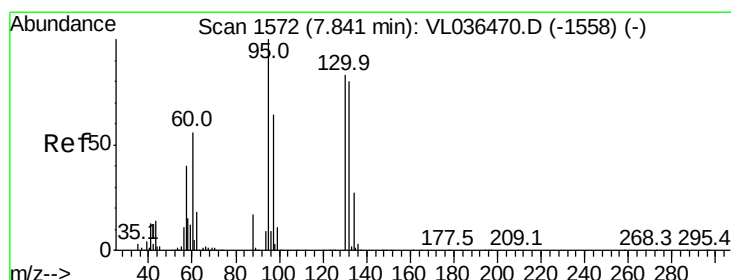
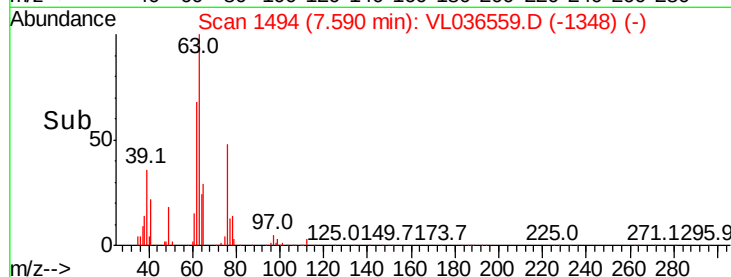
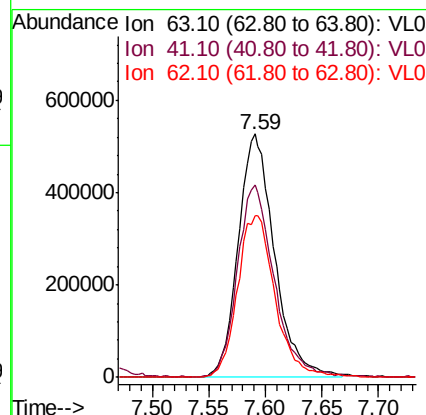
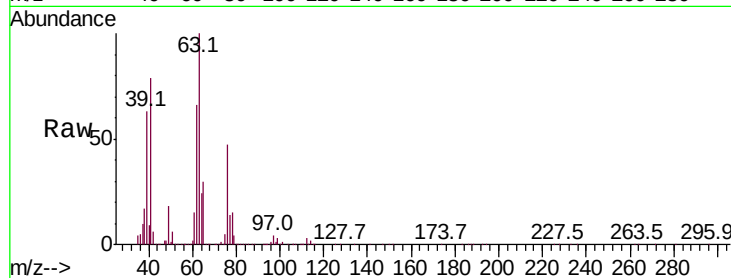
63 100

41 78.6 62.4 93.6

62 66.1 52.8 79.2

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#40

1,4-Dioxane

Concen: 7.438 ppbv m

RT: 7.81 min Scan# 1563

Delta R.T. -0.03 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

Tgt Ion: 88 Resp: 226051

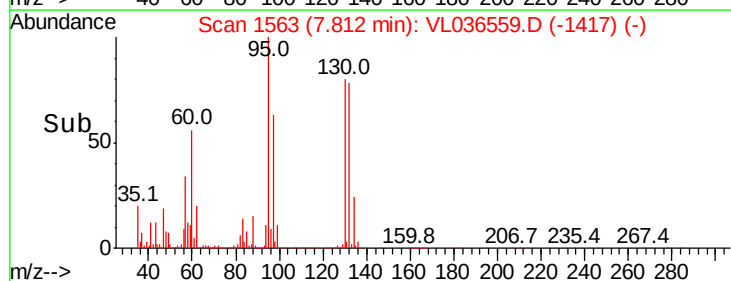
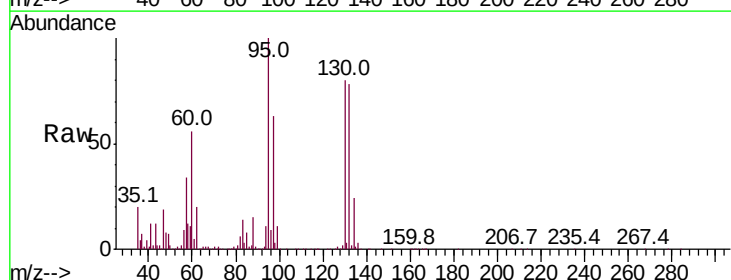
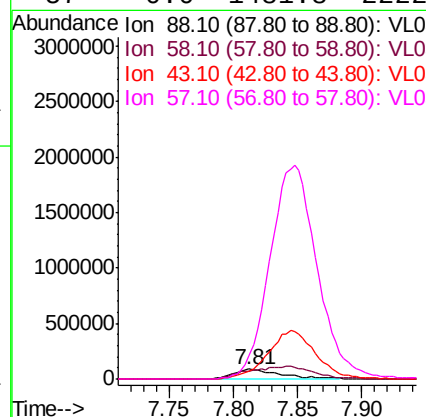
Ion Ratio Lower Upper

88 100

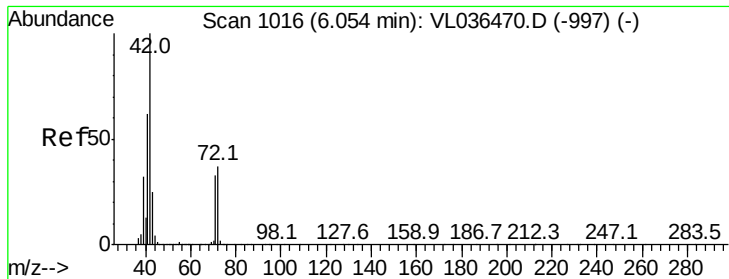
58 0.0 134.1 201.1#

43 0.0 346.6 520.0#

57 0.0 1481.8 2222.8#







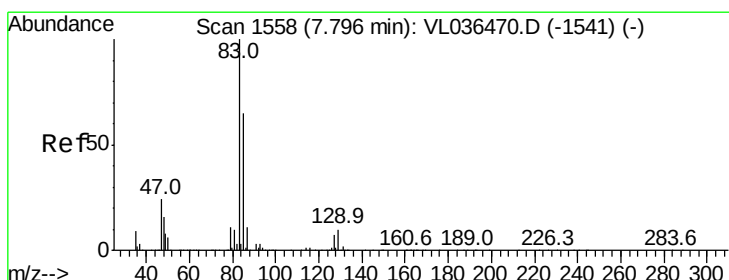
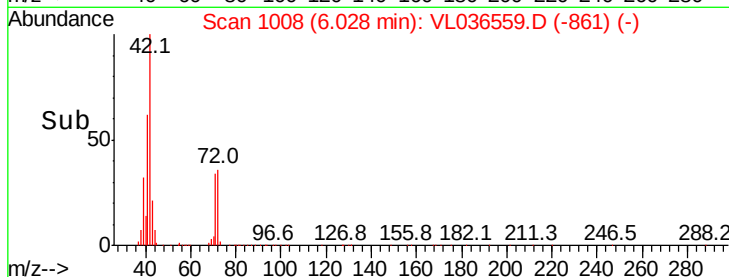
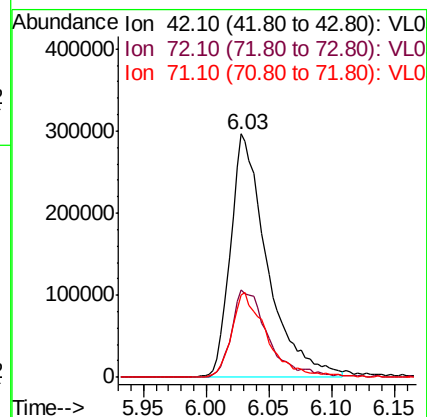
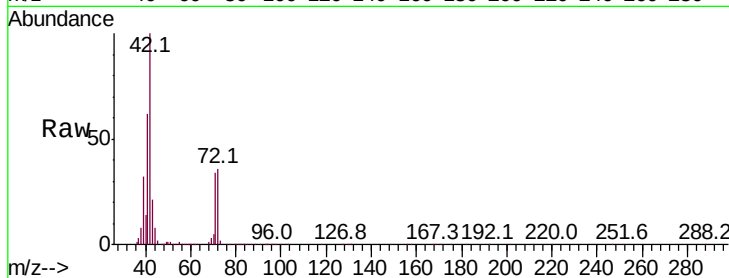
#41  
Tetrahydrofuran  
Concen: 7.632 ppbv  
RT: 6.03 min Scan# 1008  
Delta R.T. -0.03 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 42      | 100   |            |       |
| 72      | 36.7  | 27.6       | 41.4  |
| 71      | 34.5  | 27.0       | 40.4  |

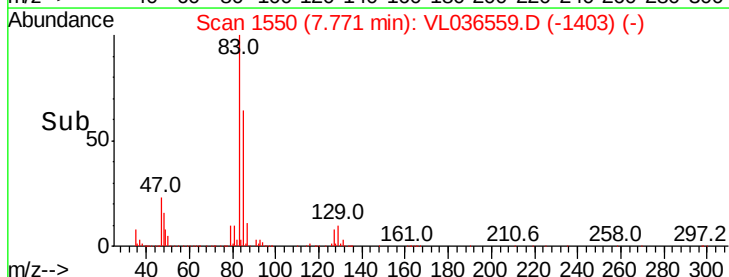
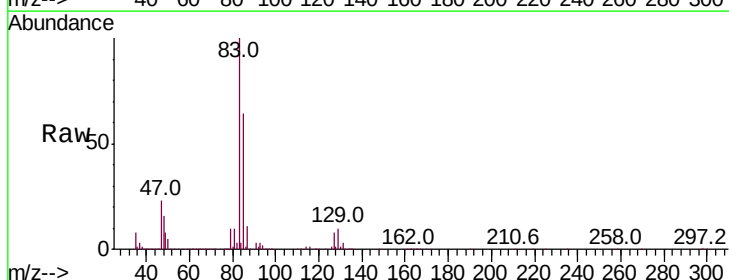
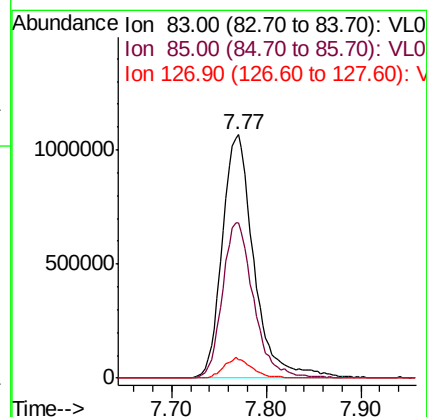
Manual Integrations  
APPROVED

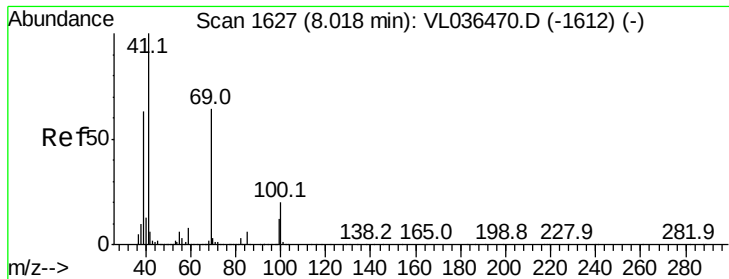
MMDadoda  
4/1/2021 10:57:21 AM



#42  
Bromodichloromethane  
Concen: 9.618 ppbv  
RT: 7.77 min Scan# 1550  
Delta R.T. -0.03 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 83      | 100   |            |       |
| 85      | 63.7  | 51.8       | 77.6  |
| 127     | 7.7   | 5.8        | 8.8   |





#43

Methyl Methacrylate

Concen: 10.200 ppbv

RT: 7.99 min Scan# 1619

Delta R.T. -0.03 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

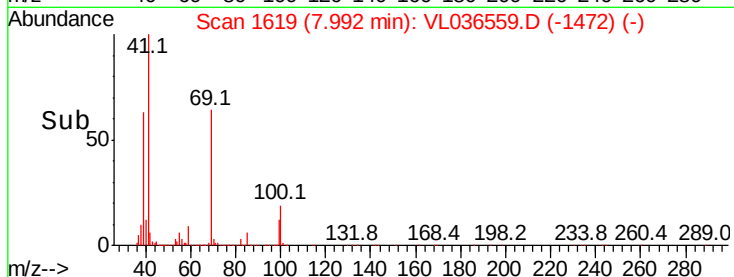
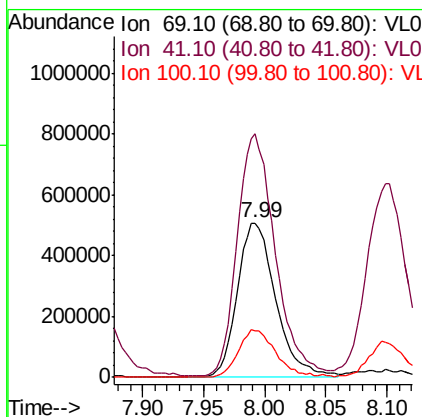
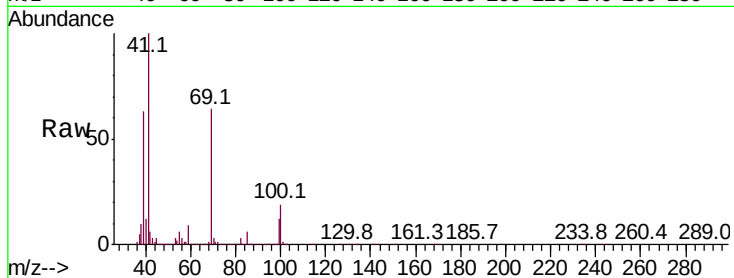
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 69 Resp: 1102590

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 156.7 | 126.8 | 190.2 |
| 100 | 30.4  | 24.9  | 37.3  |

Manual Integrations  
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MMDadoda  
4/1/2021 10:57:21 AM



#44

2,2,4-Trimethylpentane

Concen: 8.763 ppbv

RT: 7.85 min Scan# 1574

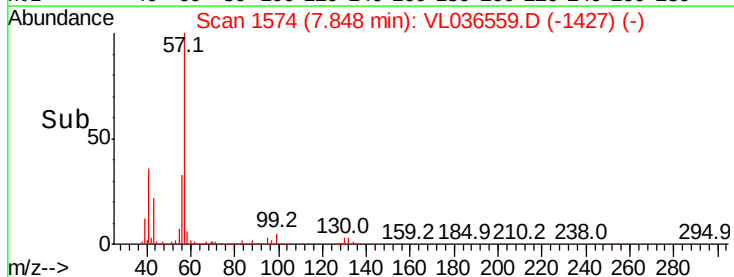
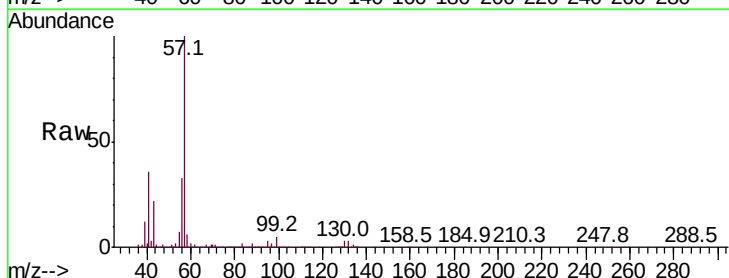
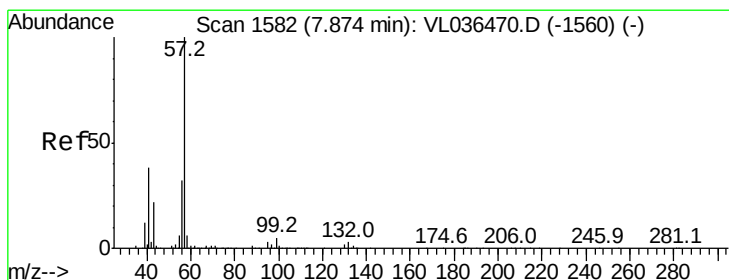
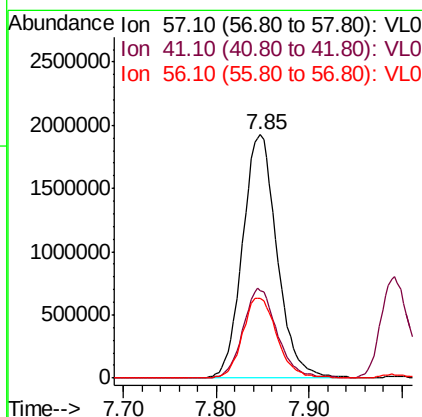
Delta R.T. -0.03 min

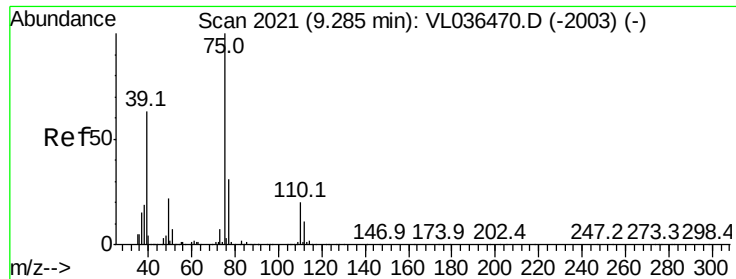
Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

Tgt Ion: 57 Resp: 4964727

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 36.2  | 28.8  | 43.2  |
| 56  | 33.1  | 26.1  | 39.1  |





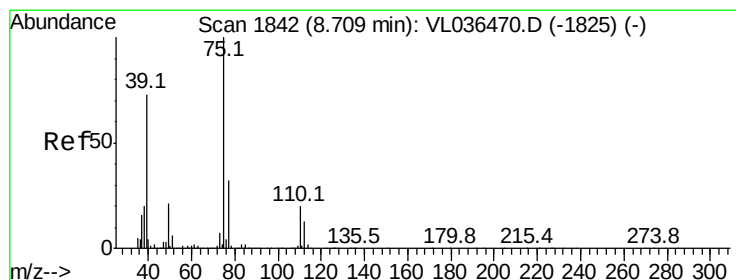
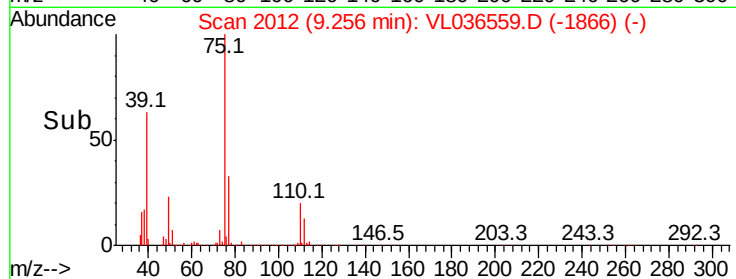
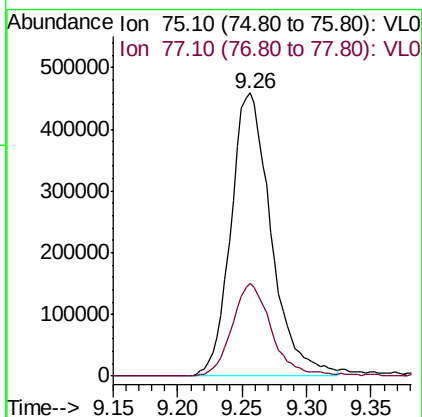
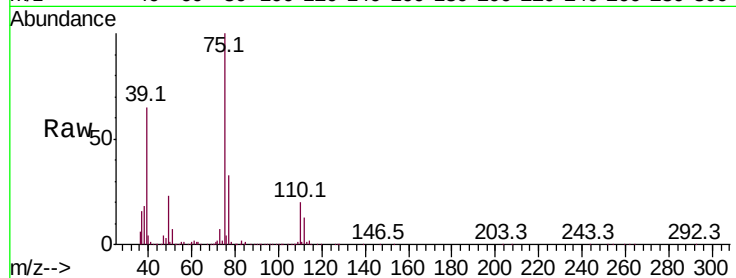
#45  
t-1,3-Dichloropropene  
Concen: 8.060 ppbv  
RT: 9.26 min Scan# 2012  
Delta R.T. -0.03 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 75 Resp: 994935  
Ion Ratio Lower Upper  
75 100  
77 32.8 25.1 37.7

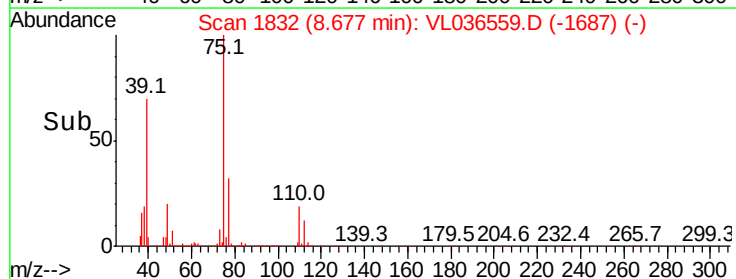
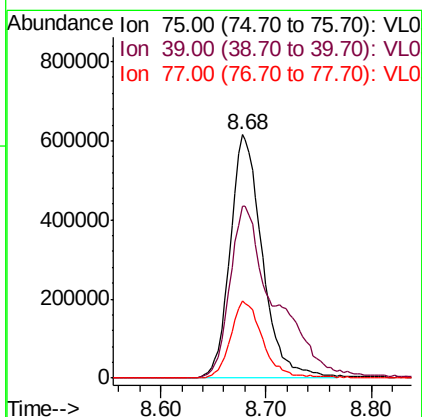
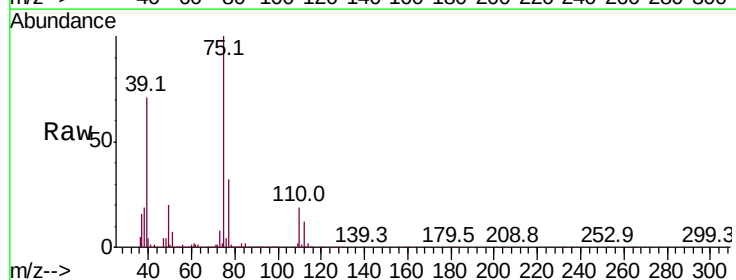
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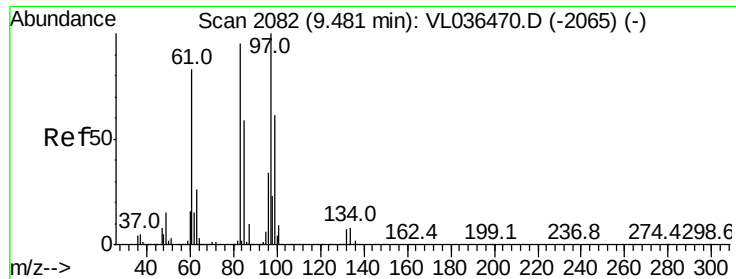
MMDadoda  
4/1/2021 10:57:21 AM



#46  
cis-1,3-Dichloropropene  
Concen: 8.238 ppbv  
RT: 8.68 min Scan# 1832  
Delta R.T. -0.03 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

Tgt Ion: 75 Resp: 1299790  
Ion Ratio Lower Upper  
75 100  
39 70.6 58.2 87.2  
77 31.8 25.2 37.8





#47

1,1,2-Trichloroethane

Concen: 8.860 ppbv

RT: 9.45 min Scan# 2072

Delta R.T. -0.03 min

Lab File: VL036559.D

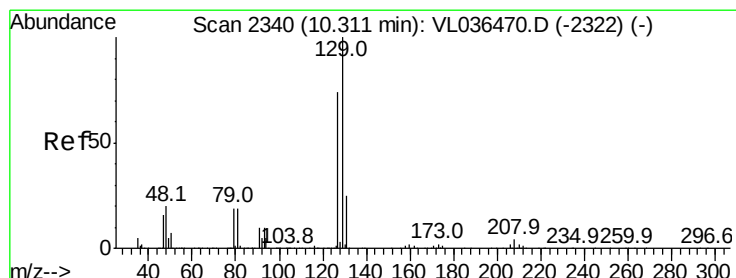
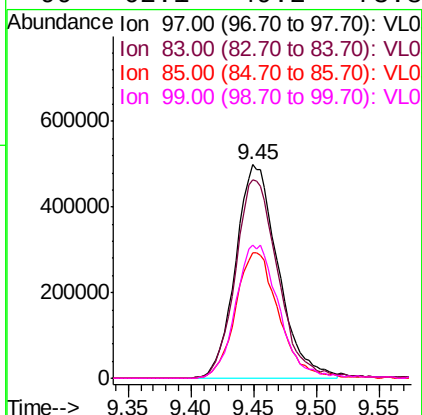
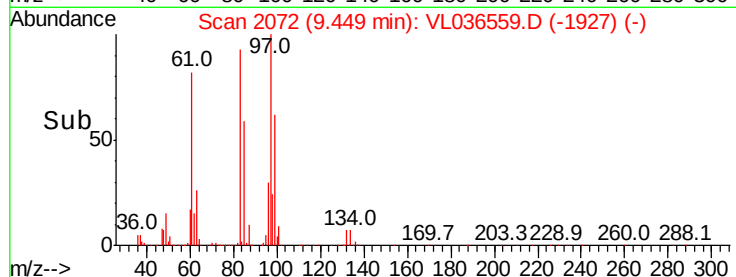
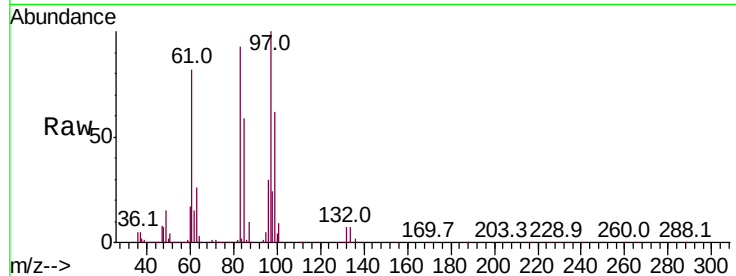
Acq: 30 Mar 2021 5:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 97      | 100  |       |       |       |
| 83      | 92.8 | 75.8  | 113.8 |       |
| 85      | 58.9 | 47.1  | 70.7  |       |
| 99      | 62.1 | 49.2  | 73.8  |       |

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#48

Dibromochloromethane

Concen: 9.619 ppbv

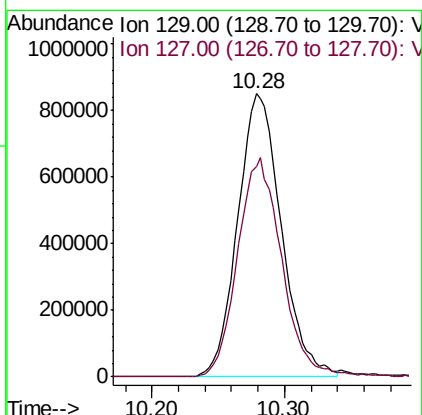
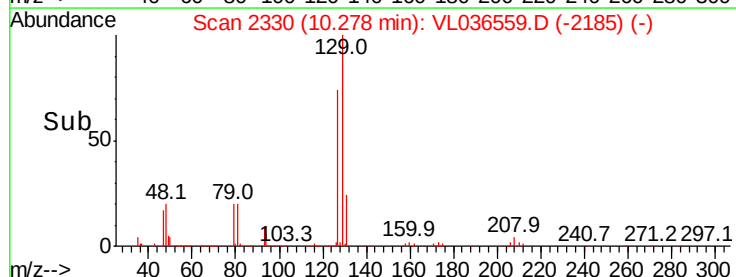
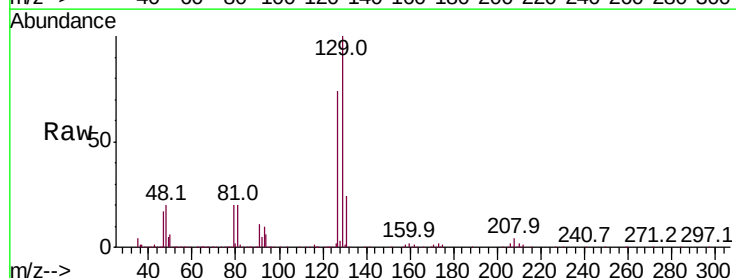
RT: 10.28 min Scan# 2330

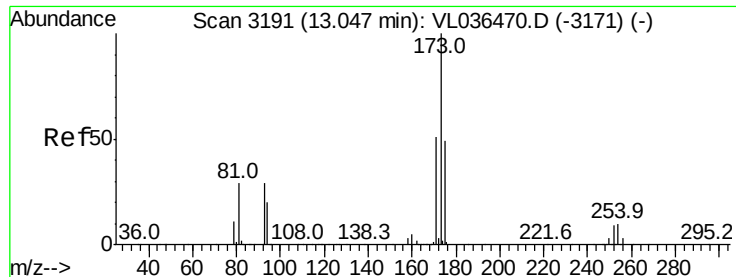
Delta R.T. -0.03 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 129     | 100  |       |       |       |
| 127     | 79.0 | 39.6  | 118.8 |       |





#49

Bromoform

Concen: 9.777 ppbv

RT: 13.02 min Scan# 3182

Delta R.T. -0.03 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion:173 Resp: 1588448

Ion Ratio Lower Upper

173 100

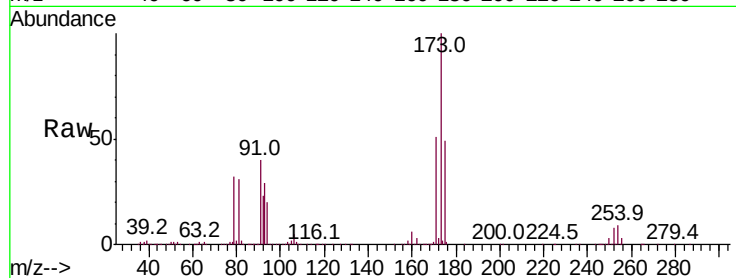
175 49.6 39.6 59.4

171 53.7 41.4 62.0

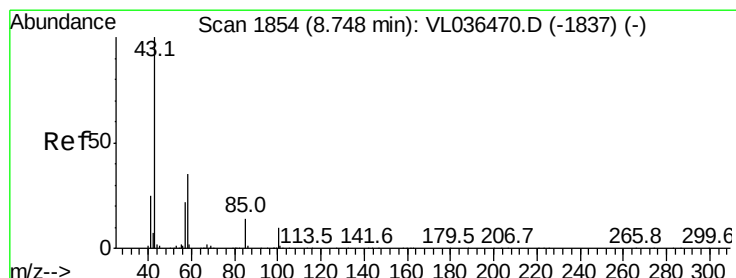
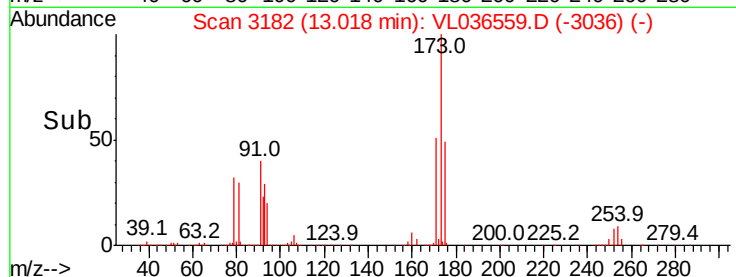
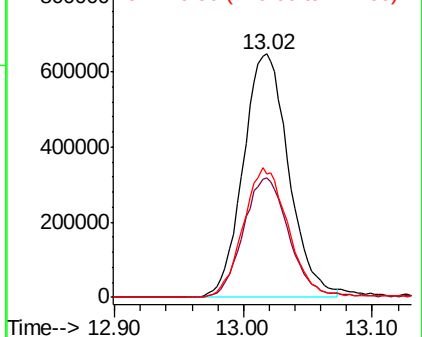
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Abundance Ion 172.90 (172.60 to 173.60): V  
Ion 174.90 (174.60 to 175.60): V  
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 8.776 ppbv

RT: 8.72 min Scan# 1845

Delta R.T. -0.03 min

Lab File: VL036559.D

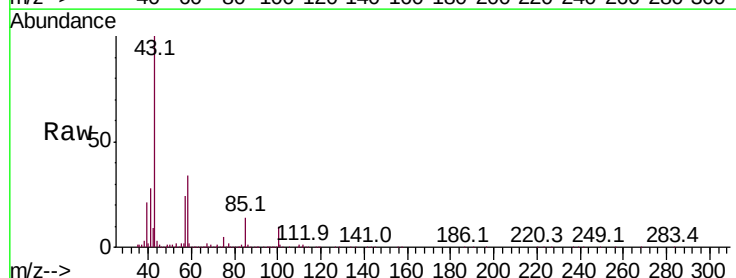
Acq: 30 Mar 2021 5:51

Tgt Ion: 43 Resp: 2163747

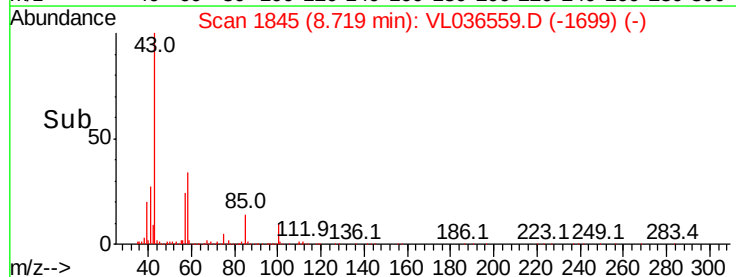
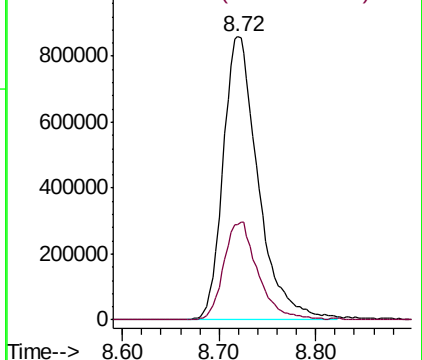
Ion Ratio Lower Upper

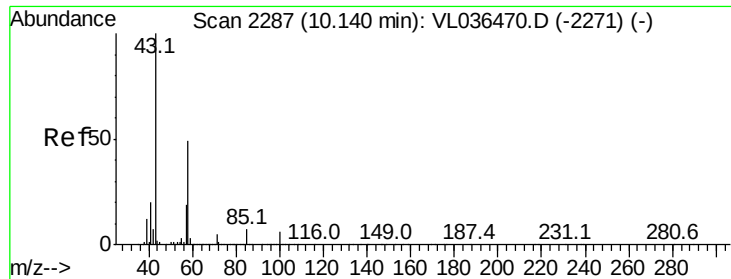
43 100

58 34.3 28.2 42.2



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





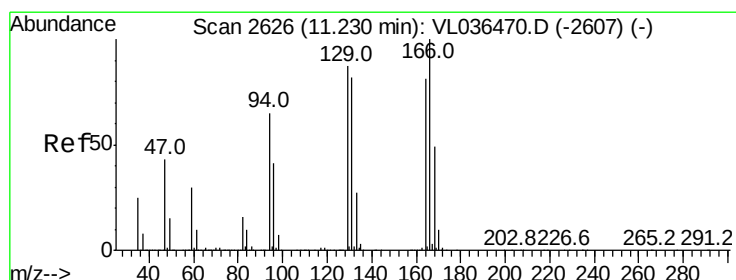
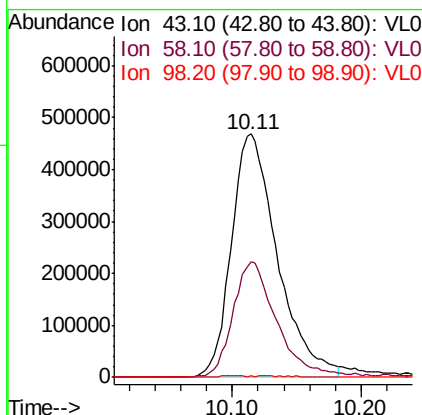
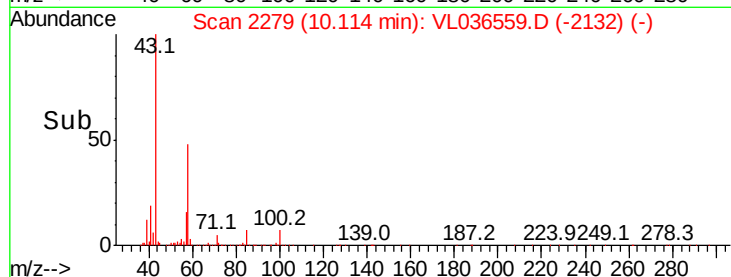
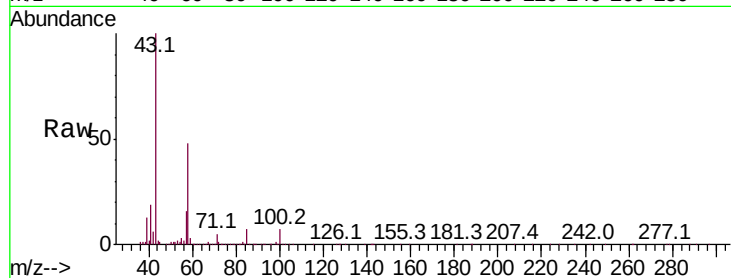
#51  
2-Hexanone  
Concen: 9.296 ppbv  
RT: 10.11 min Scan# 2279  
Delta R.T. -0.03 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 43 Resp: 1156522  
Ion Ratio Lower Upper  
43 100  
58 46.5 37.7 56.5  
98 0.4 0.2 0.2#

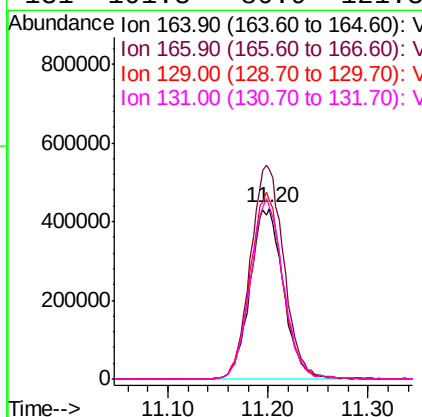
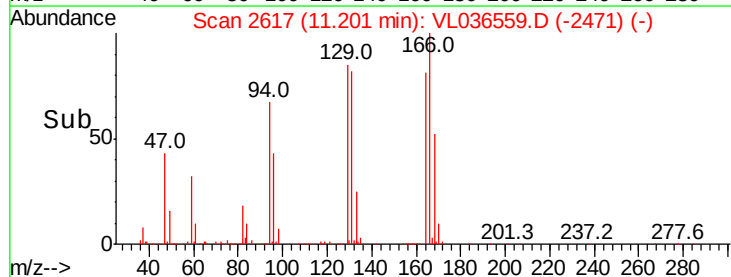
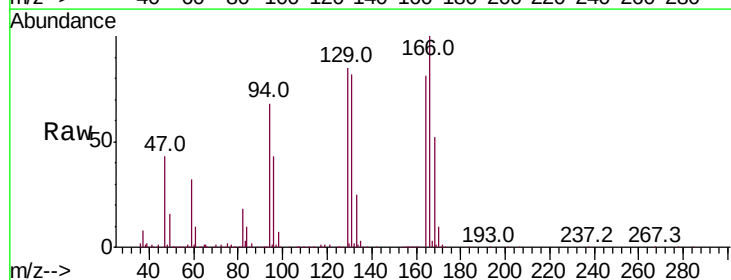
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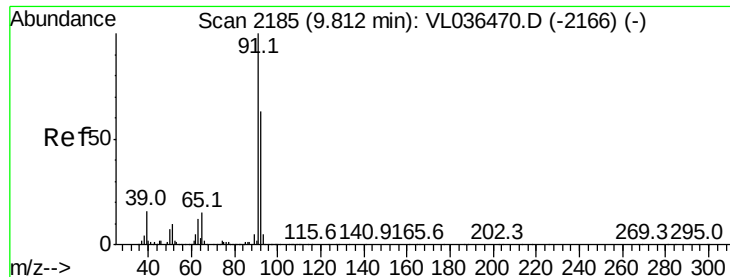
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#52  
Tetrachloroethene  
Concen: 8.434 ppbv m  
RT: 11.20 min Scan# 2617  
Delta R.T. -0.03 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

Tgt Ion: 164 Resp: 999831  
Ion Ratio Lower Upper  
164 100  
166 123.4 98.3 147.5  
129 105.2 85.8 128.8  
131 101.3 80.9 121.3





#53

Toluene

Concen: 9.517 ppbv

RT: 9.78 min Scan# 2175

Delta R.T. -0.03 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3262816

Ion Ratio Lower Upper

91 100

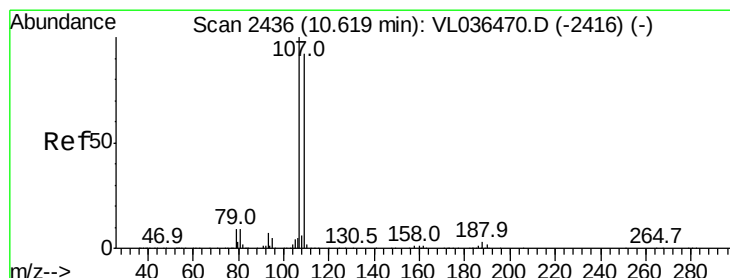
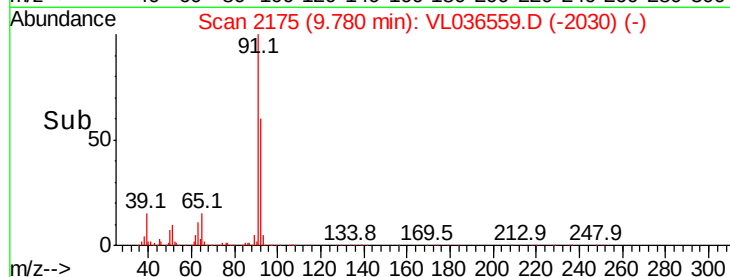
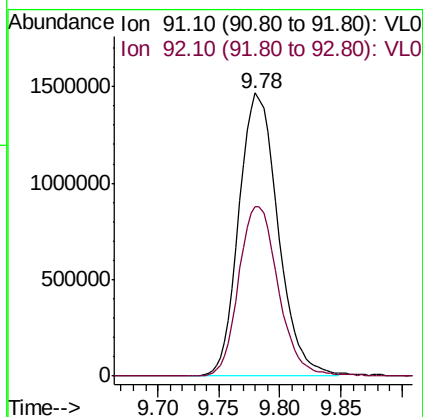
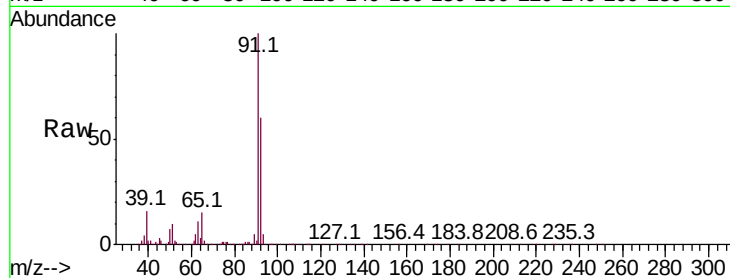
92 60.7 48.8 73.2

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#54

1,2-Dibromoethane

Concen: 9.049 ppbv

RT: 10.58 min Scan# 2425

Delta R.T. -0.04 min

Lab File: VL036559.D

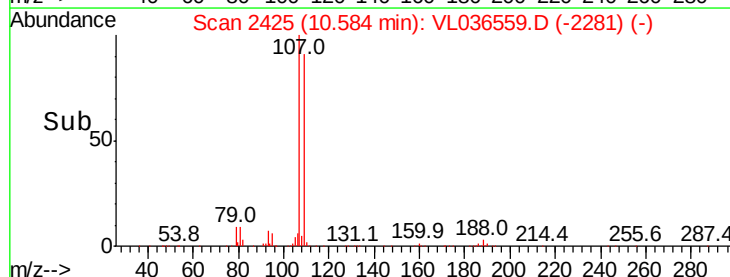
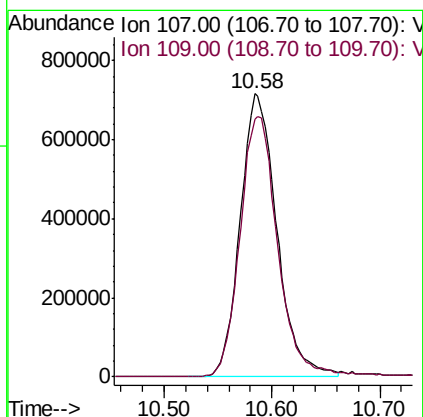
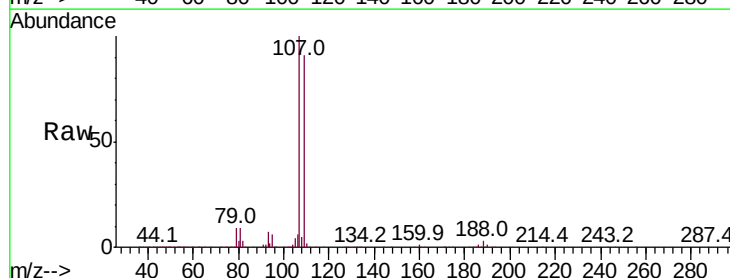
Acq: 30 Mar 2021 5:51

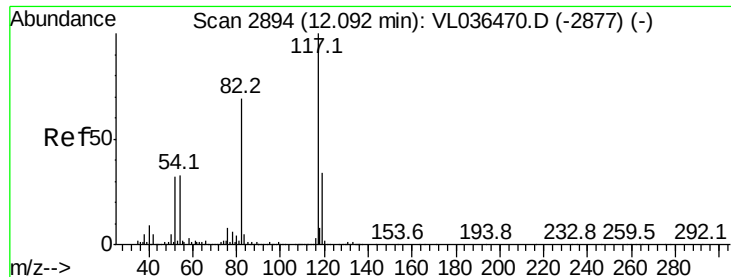
Tgt Ion: 107 Resp: 1690257

Ion Ratio Lower Upper

107 100

109 91.0 73.9 110.9





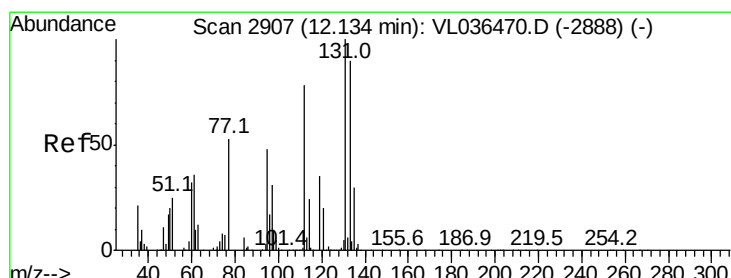
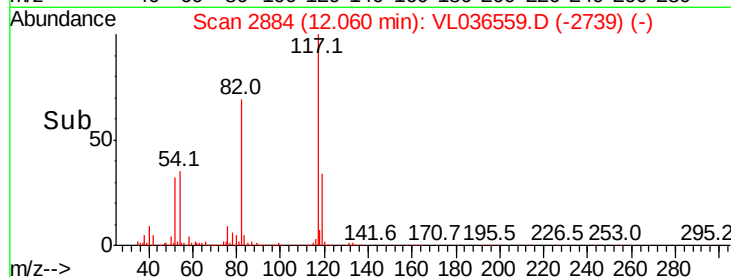
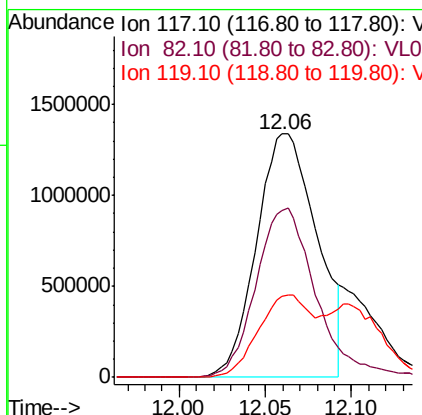
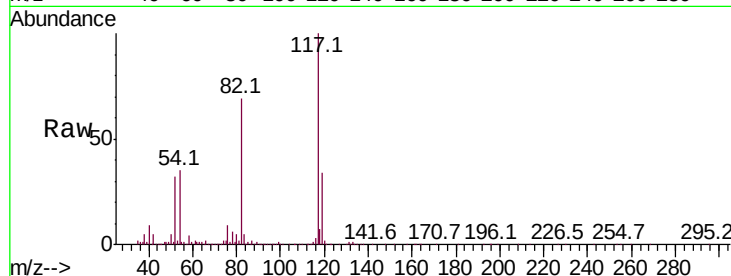
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv m  
RT: 12.06 min Scan# 2884  
Delta R.T. -0.03 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion:117 Resp: 3254139  
Ion Ratio Lower Upper  
117 100  
82 70.3 57.4 86.0  
119 31.3 47.4 71.0#

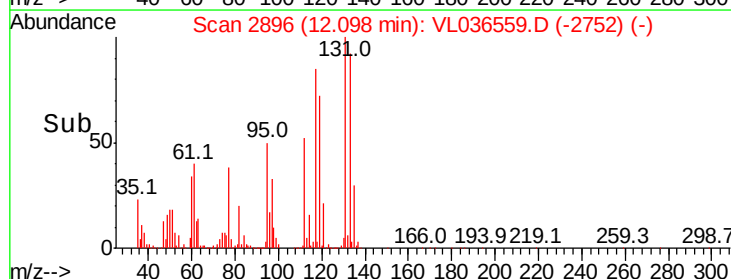
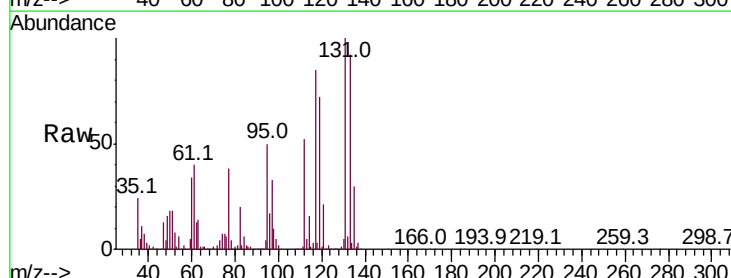
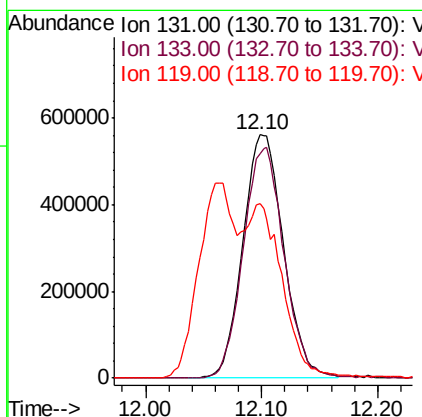
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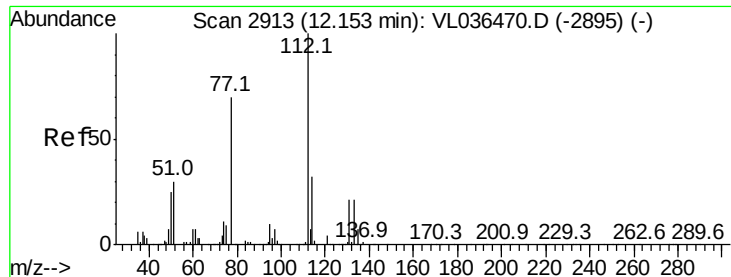


#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.315 ppbv  
RT: 12.10 min Scan# 2896  
Delta R.T. -0.04 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

Tgt Ion:131 Resp: 1371107  
Ion Ratio Lower Upper  
131 100  
133 95.8 75.8 113.6  
119 59.7 48.7 73.1







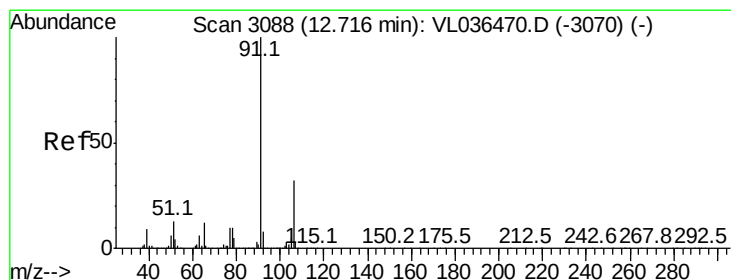
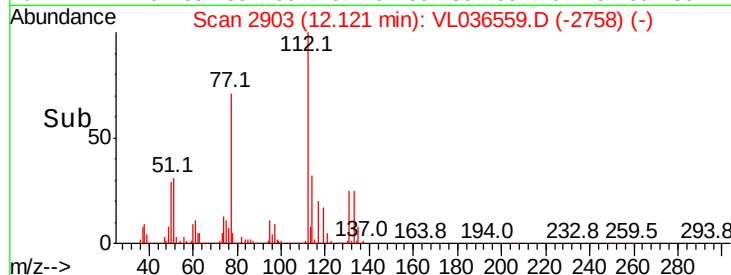
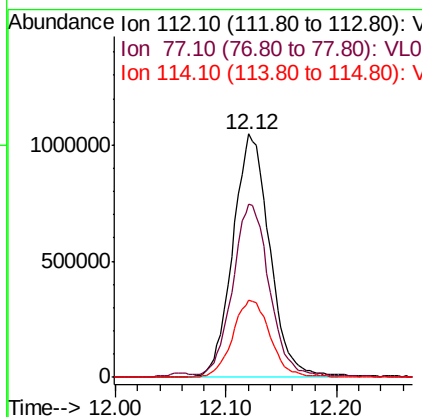
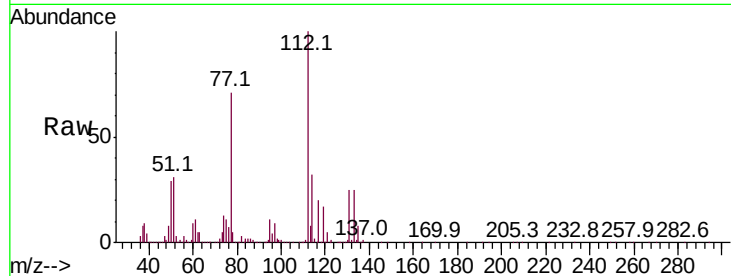
#57  
Chlorobenzene  
Concen: 8.724 ppbv  
RT: 12.12 min Scan# 2903  
Delta R.T. -0.03 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 70.3  | 56.0  | 84.0  |
| 114     | 31.5  | 29.0  | 35.4  |

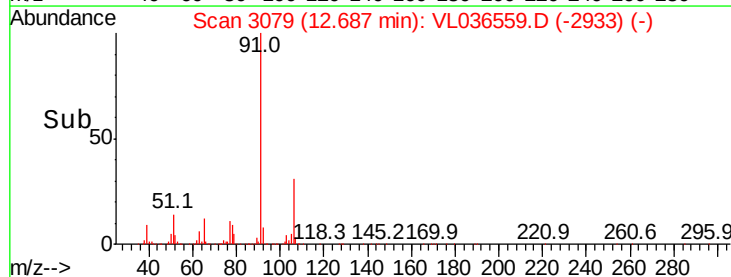
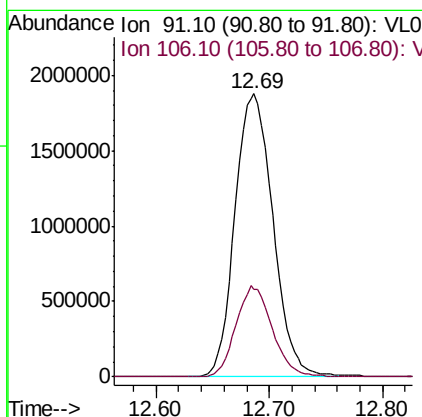
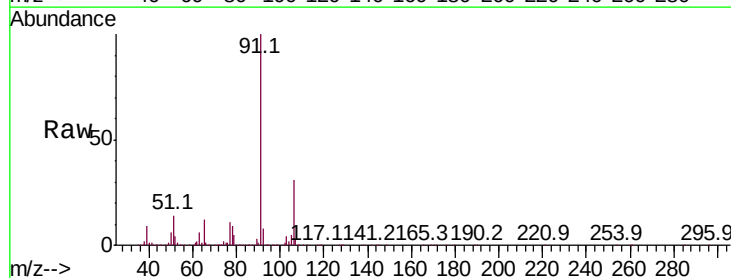
Manual Integrations  
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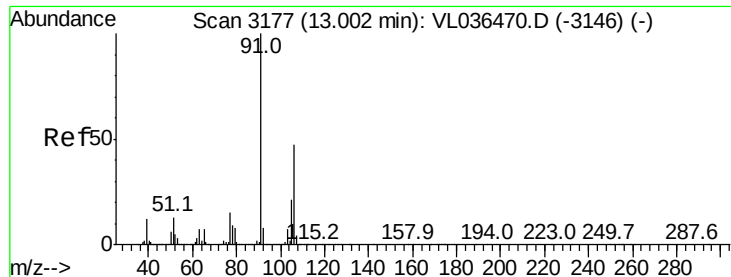
MMDadoda  
4/1/2021 10:57:21 AM



#58  
Ethyl Benzene  
Concen: 9.291 ppbv  
RT: 12.69 min Scan# 3079  
Delta R.T. -0.03 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 31.0  | 25.3  | 37.9  |





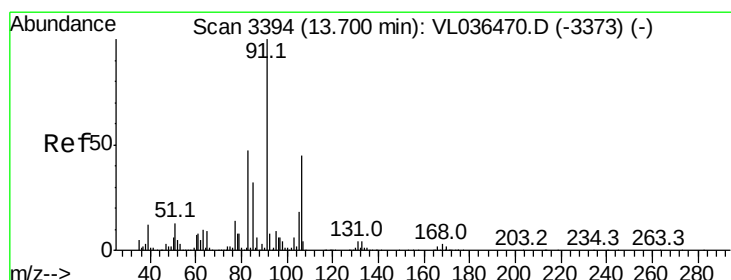
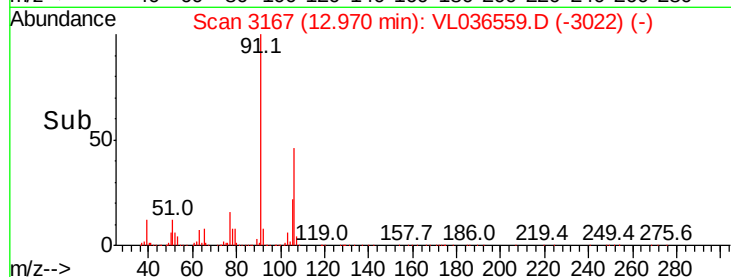
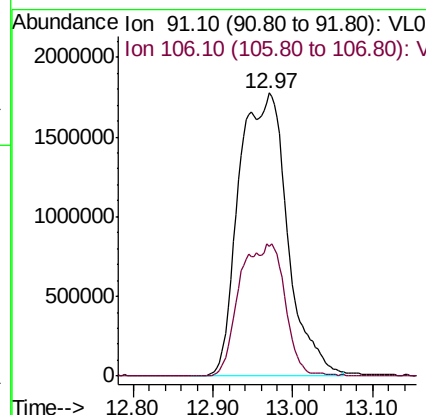
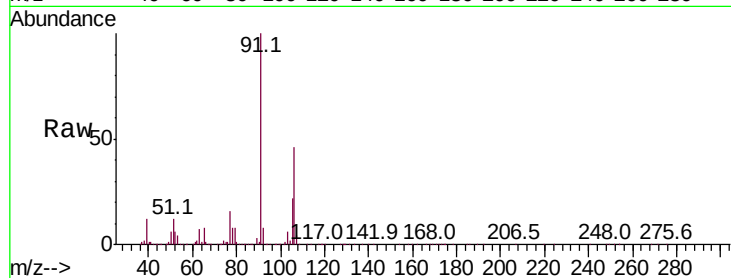
#59  
m/p-Xylene  
Concen: 18.177 ppbv m  
RT: 12.97 min Scan# 3167  
Delta R.T. -0.03 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 91 Resp: 7505919  
Ion Ratio Lower Upper  
91 100  
106 43.8 35.3 52.9

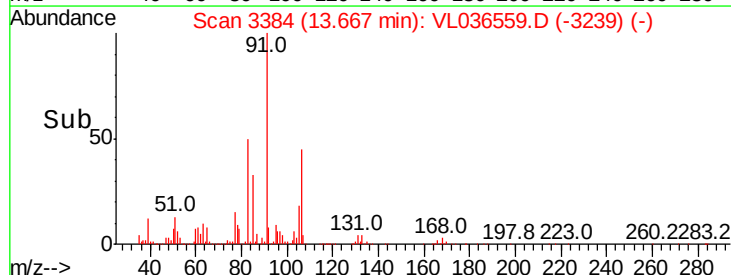
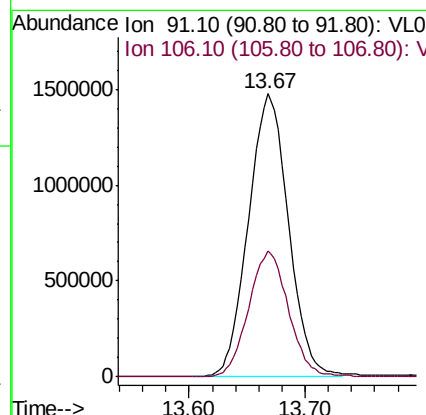
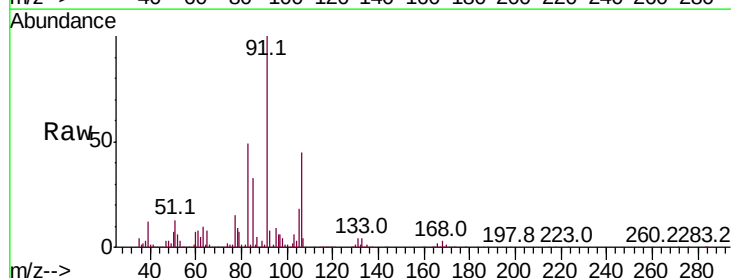
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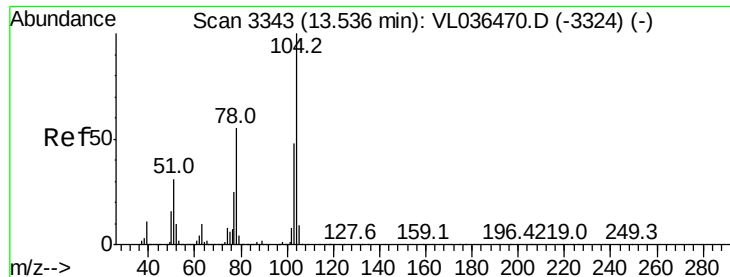
MMDadoda  
4/1/2021 10:57:21 AM



#60  
o-Xylene  
Concen: 8.858 ppbv  
RT: 13.67 min Scan# 3384  
Delta R.T. -0.03 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

Tgt Ion: 91 Resp: 3536847  
Ion Ratio Lower Upper  
91 100  
106 44.9 22.3 66.9





#61

Stvrene

Concen: 9.635 ppbv

RT: 13.50 min Scan# 3333

Delta R.T. -0.03 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion:104 Resp: 1935485

Ion Ratio Lower Upper

104 100

78 53.7 43.8 65.8

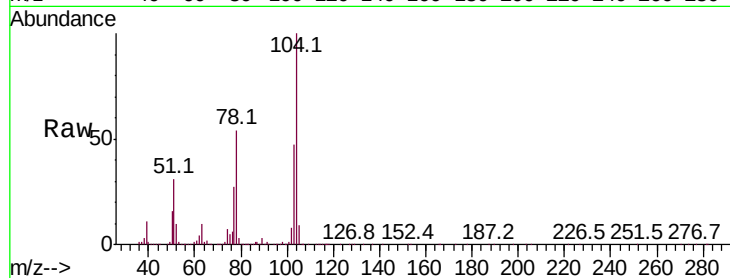
103 47.0 38.3 57.5

Manual Integrations

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MMDadoda

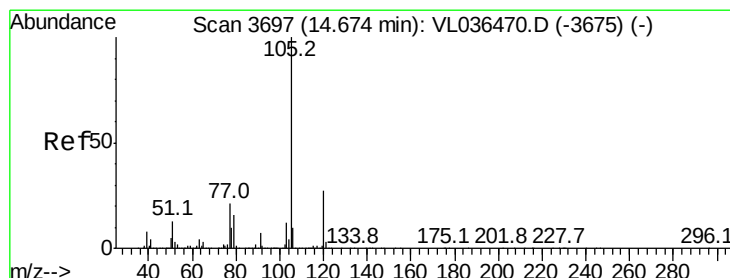
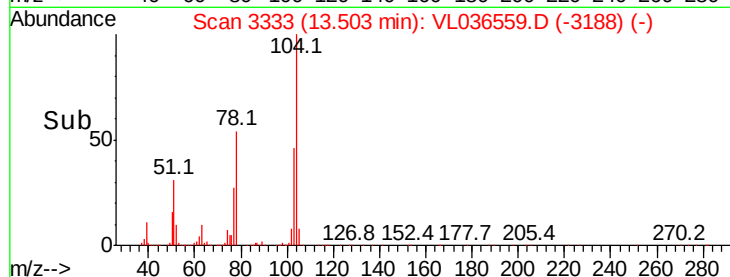
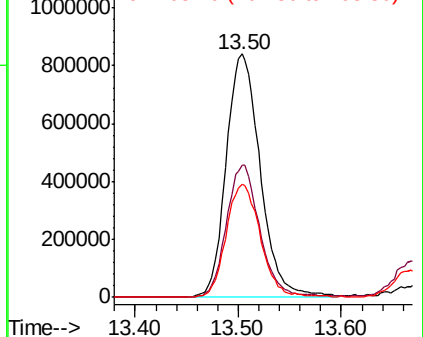
4/1/2021 10:57:21 AM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.060 ppbv

RT: 14.64 min Scan# 3687

Delta R.T. -0.03 min

Lab File: VL036559.D

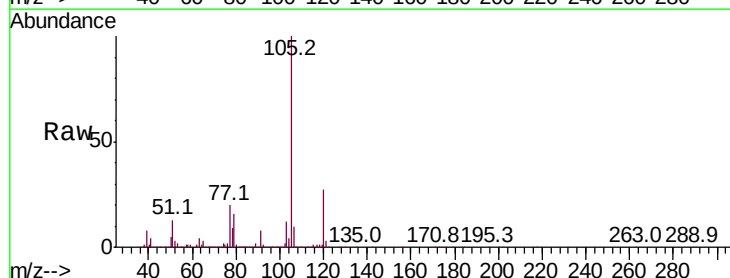
Acq: 30 Mar 2021 5:51

Tgt Ion:105 Resp: 4871220

Ion Ratio Lower Upper

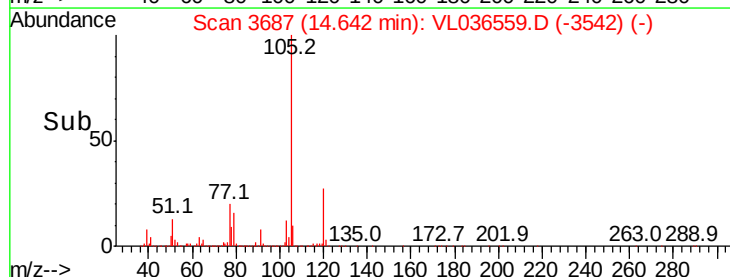
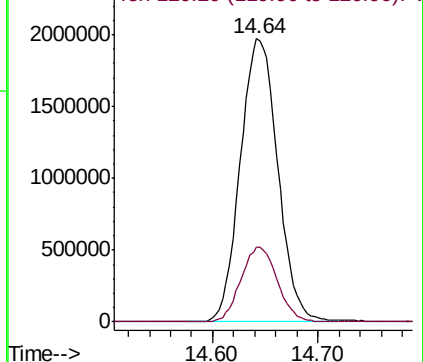
105 100

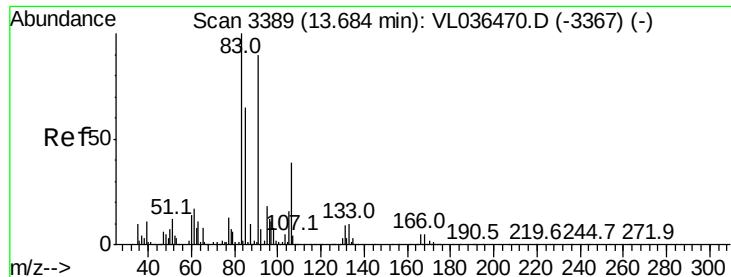
120 26.0 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





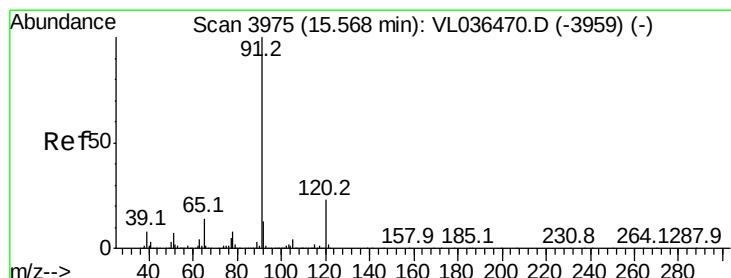
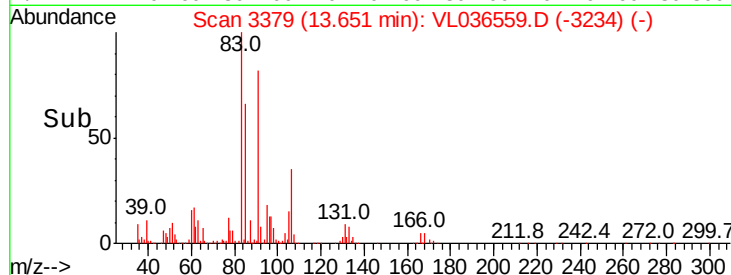
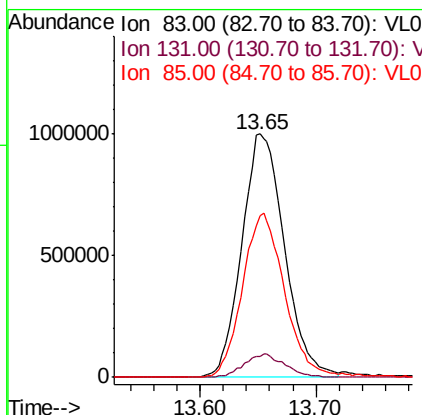
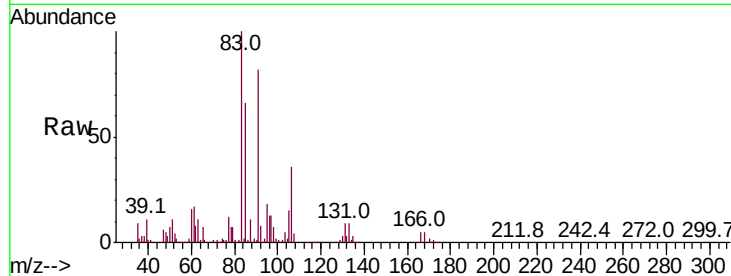
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 8.404 ppbv  
 RT: 13.65 min Scan# 3379  
 Delta R.T. -0.03 min  
 Lab File: VL036559.D  
 Acq: 30 Mar 2021 5:51

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 131     | 9.4   | 4.7   | 14.0  |
| 85      | 67.4  | 33.1  | 99.3  |

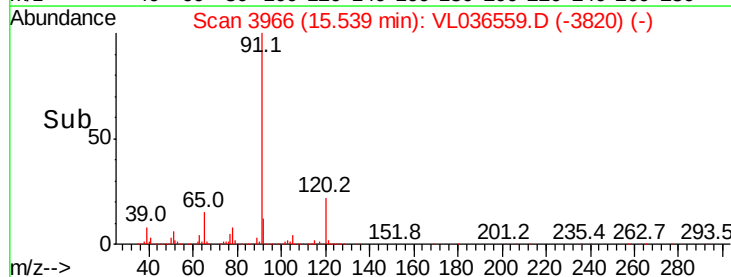
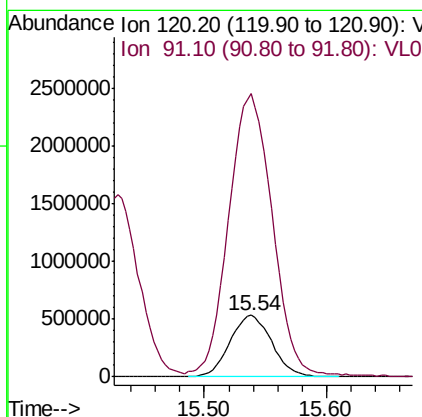
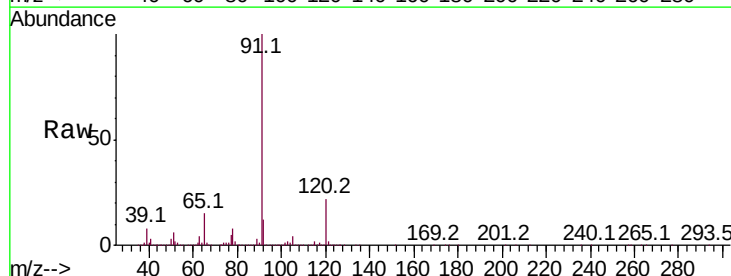
Manual Integrations  
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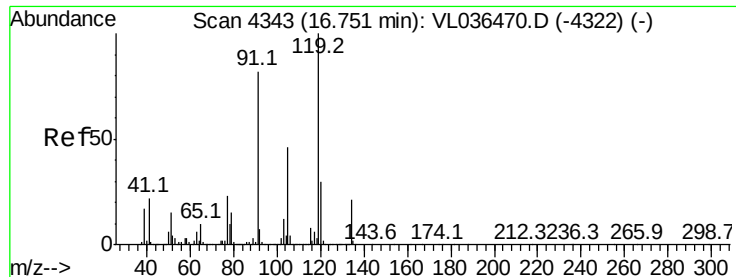
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#64  
 n-propylbenzene  
 Concen: 9.507 ppbv  
 RT: 15.54 min Scan# 3966  
 Delta R.T. -0.03 min  
 Lab File: VL036559.D  
 Acq: 30 Mar 2021 5:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 120     | 100   |       |       |
| 91      | 489.3 | 377.4 | 566.2 |





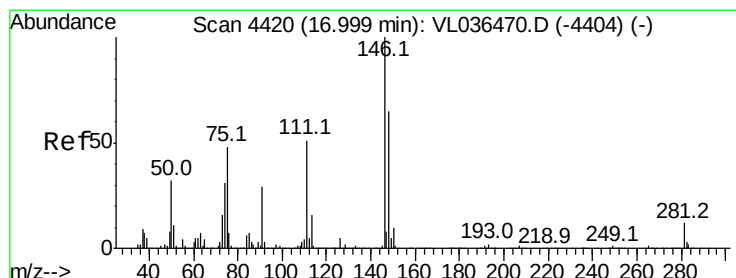
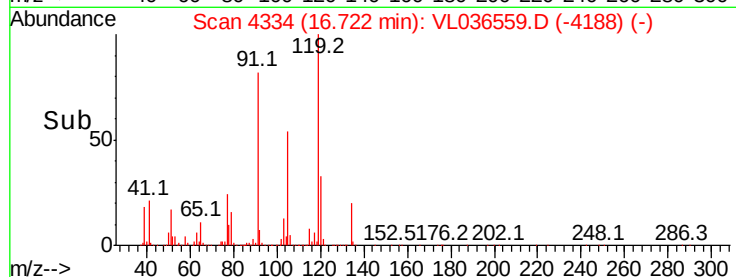
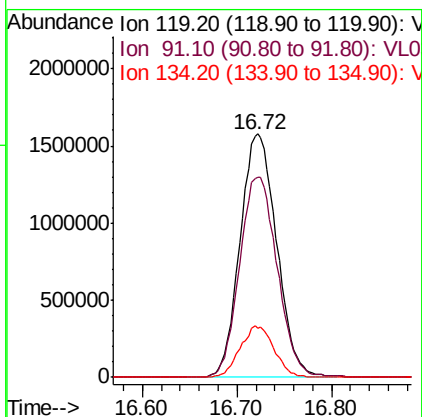
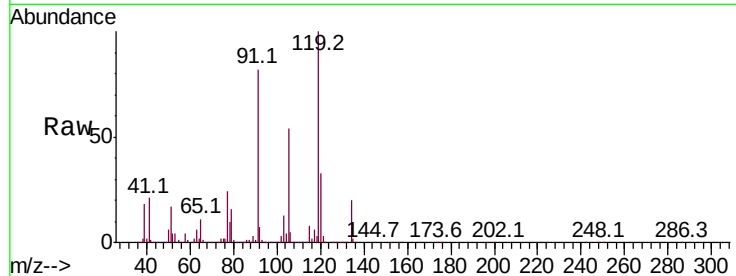
#65  
tert-Butylbenzene  
Concen: 9.091 ppbv  
RT: 16.72 min Scan# 4334  
Delta R.T. -0.03 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 85.0  | 67.5  | 101.3 |
| 134     | 19.7  | 15.8  | 23.8  |

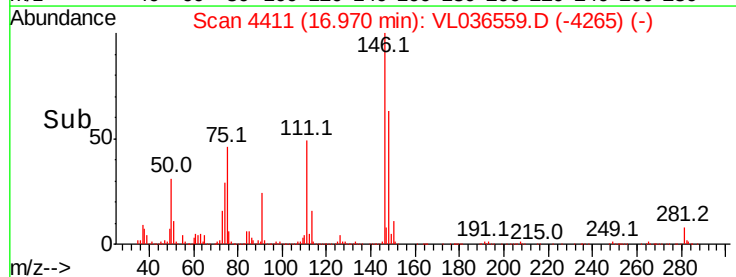
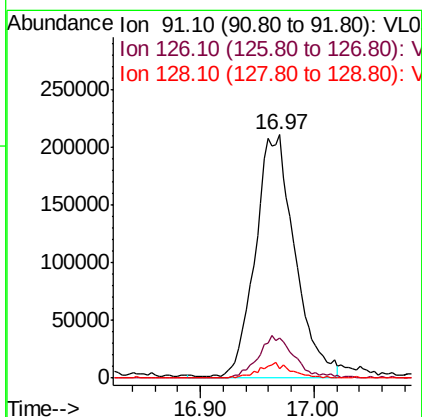
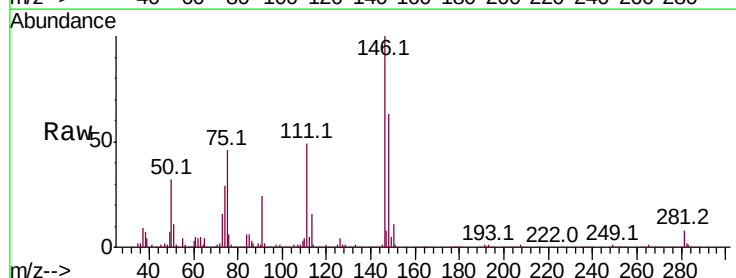
Manual Integrations  
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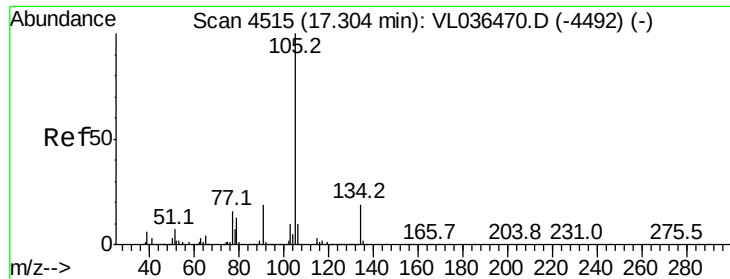
MMDadoda  
4/1/2021 10:57:21 AM



#66  
Benzyl Chloride  
Concen: 9.937 ppbv m  
RT: 16.97 min Scan# 4411  
Delta R.T. -0.03 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 16.3  | 13.5  | 20.3  |
| 128     | 5.3   | 4.2   | 6.4   |





#67

sec-Butylbenzene

Concen: 9.017 ppbv

RT: 17.27 min Scan# 4504

Delta R.T. -0.04 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 5934253

Ion Ratio Lower Upper

105 100

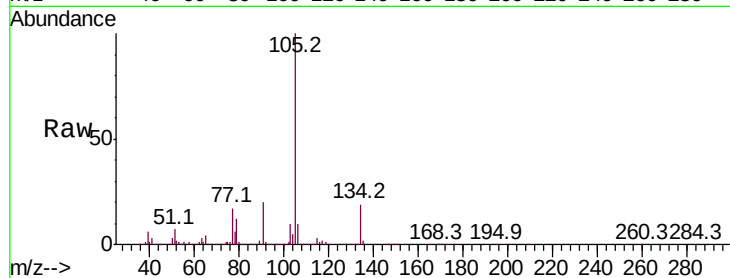
134 18.1 14.7 22.1

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

2500000

2000000

1500000

1000000

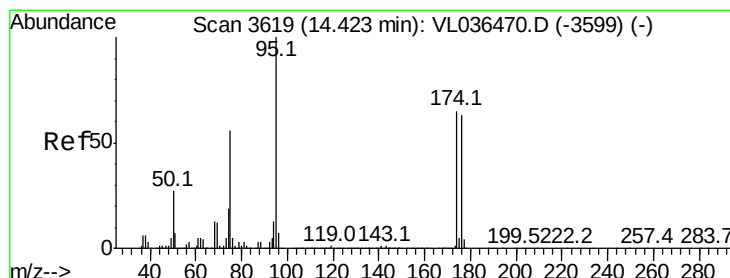
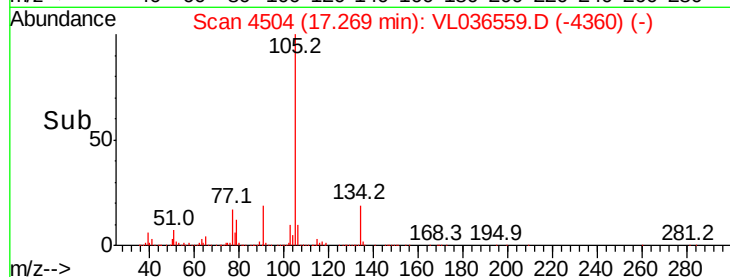
500000

0

17.27

17.20 17.30

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.578 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.03 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

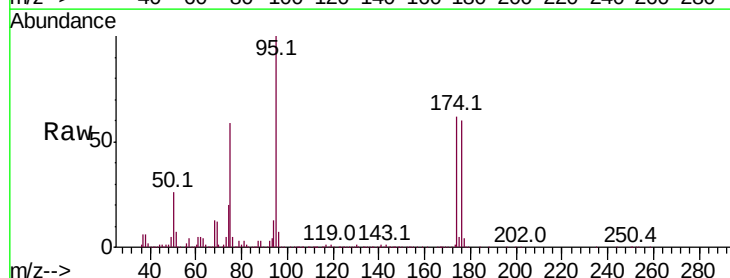
Tgt Ion: 95 Resp: 2743385

Ion Ratio Lower Upper

95 100

174 63.6 51.0 76.6

175 4.8 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

1500000

1000000

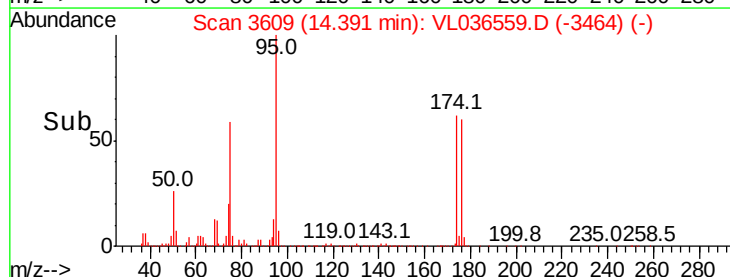
500000

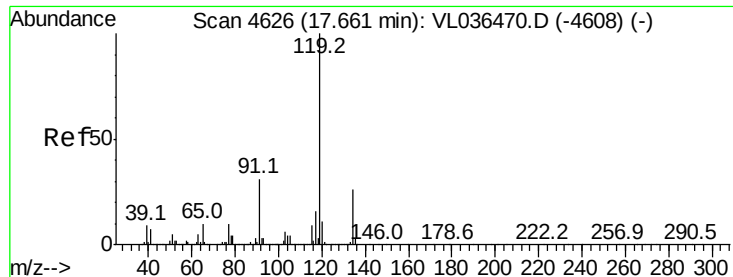
0

14.39

14.30 14.40

Time-->





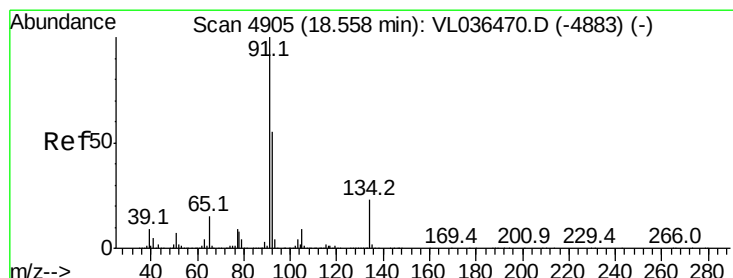
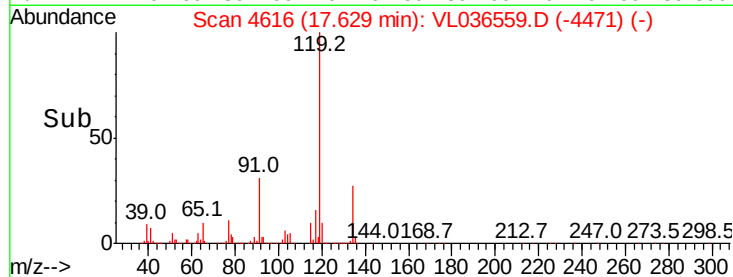
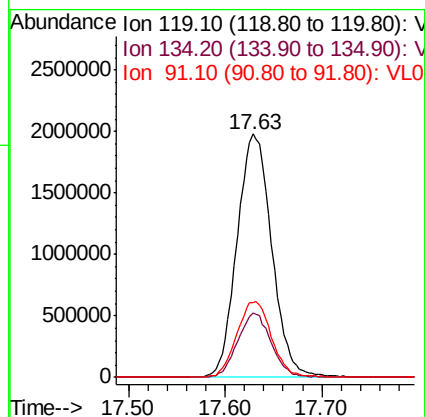
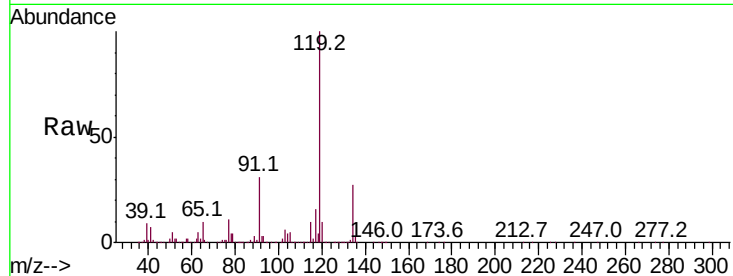
#69  
 p-Isopropyltoluene  
 Concen: 9.591 ppbv  
 RT: 17.63 min Scan# 4616  
 Delta R.T. -0.03 min  
 Lab File: VL036559.D  
 Acq: 30 Mar 2021 5:51

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 25.6  | 20.6  | 30.8  |
| 91      | 31.4  | 25.0  | 37.6  |

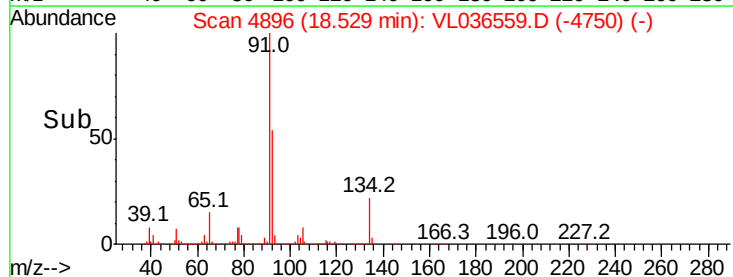
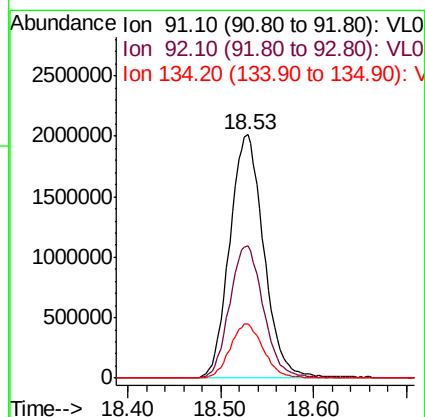
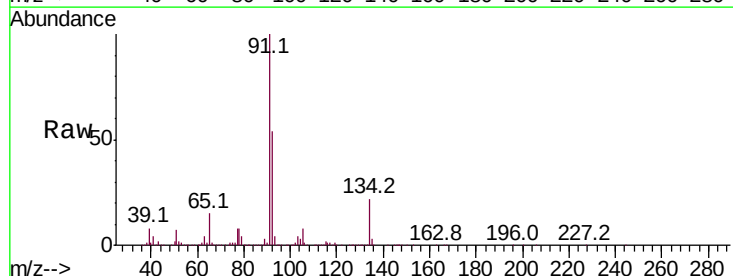
Manual Integrations  
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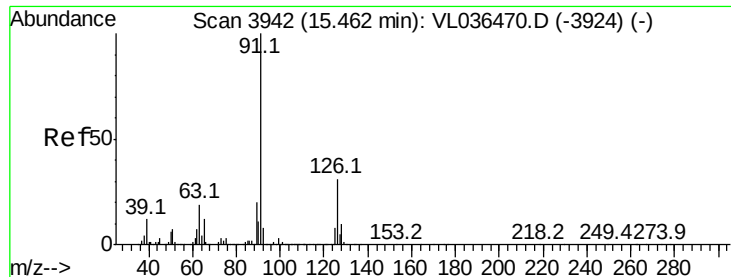
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#70  
 n-Butylbenzene  
 Concen: 9.611 ppbv  
 RT: 18.53 min Scan# 4896  
 Delta R.T. -0.03 min  
 Lab File: VL036559.D  
 Acq: 30 Mar 2021 5:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 54.6  | 43.8  | 65.8  |
| 134     | 21.9  | 18.0  | 27.0  |





#71

2-Chlorotoluene

Concen: 9.424 ppbv

RT: 15.43 min Scan# 3932

Delta R.T. -0.03 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3796824

Ion Ratio Lower Upper

91 100

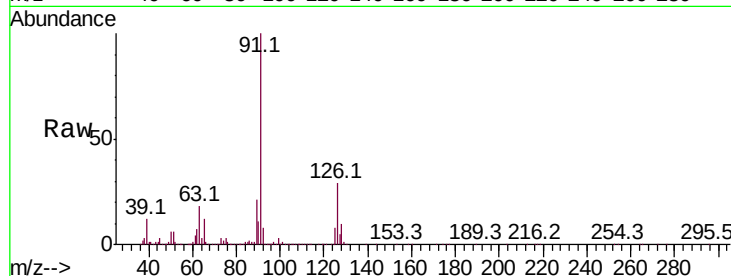
126 29.9 12.1 48.5

Manual Integrations

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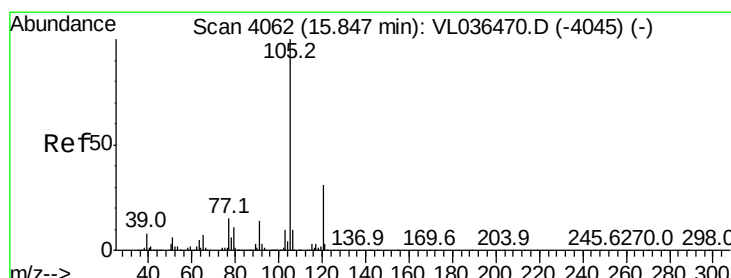
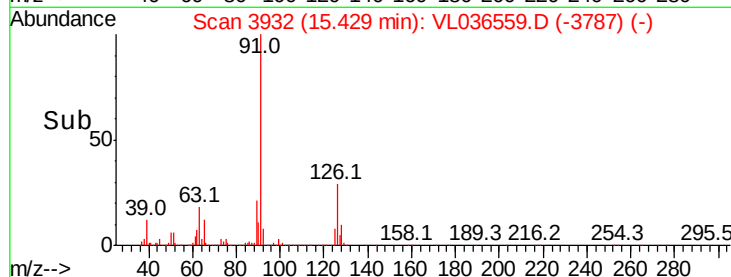
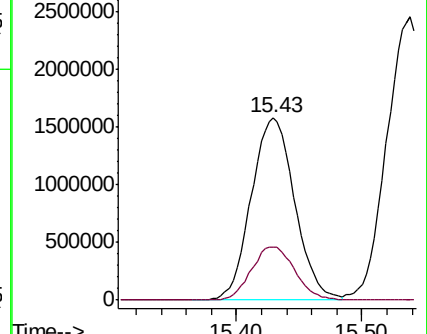
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.472 ppbv

RT: 15.82 min Scan# 4052

Delta R.T. -0.03 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

Tgt Ion: 105 Resp: 4144009

Ion Ratio Lower Upper

105 100

120 30.6 24.0 36.0

91 13.9 11.0 16.4

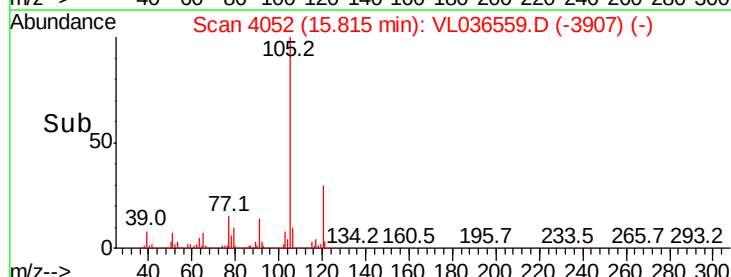
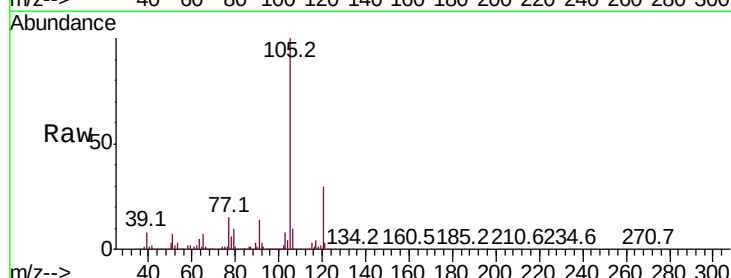
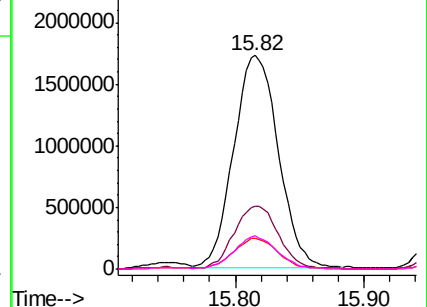
77 15.4 11.7 17.5

Abundance Ion 105.10 (104.80 to 105.80): V

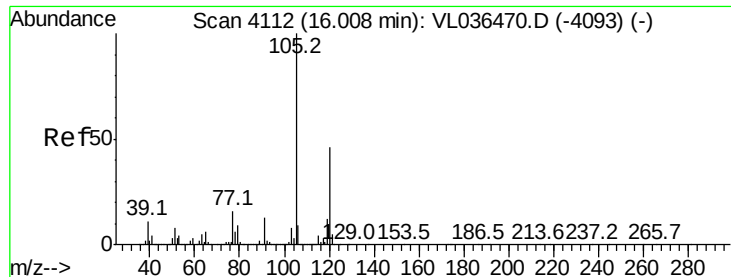
Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0







#73

1,3,5-Trimethylbenzene

Concen: 9.074 ppbv

RT: 15.98 min Scan# 4102

Delta R.T. -0.03 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 3705423

Ion Ratio Lower Upper

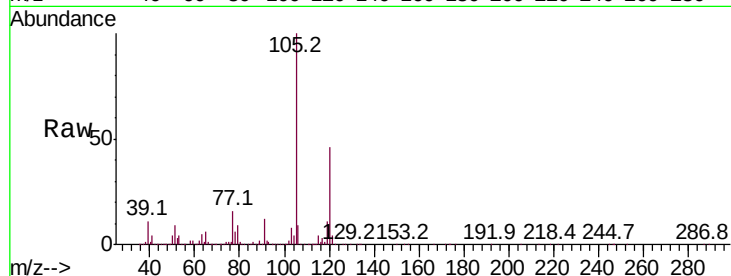
105 100

120 45.8 36.6 54.8

Manual Integrations  
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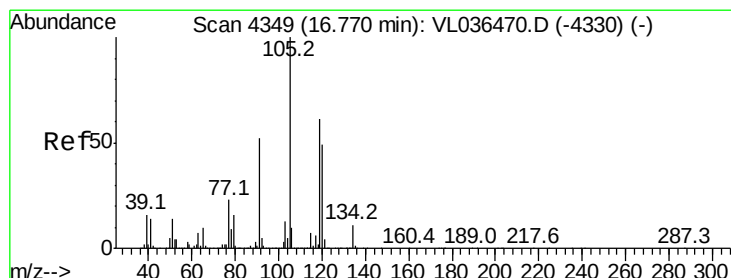
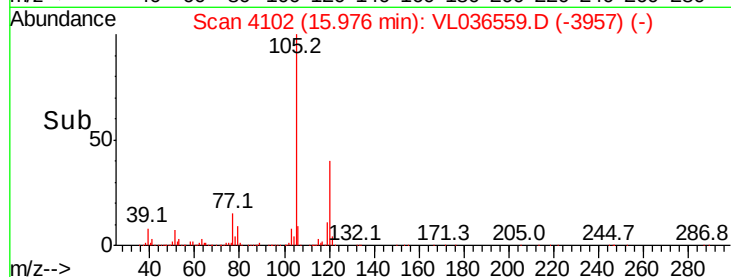
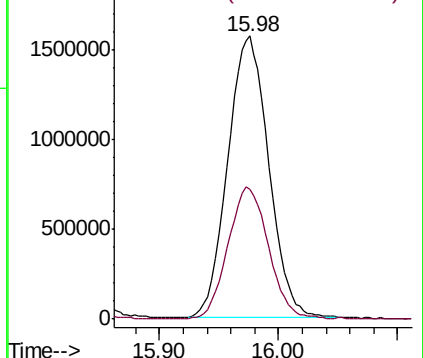
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.917 ppbv

RT: 16.74 min Scan# 4339

Delta R.T. -0.03 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

Tgt Ion:105 Resp: 3896414

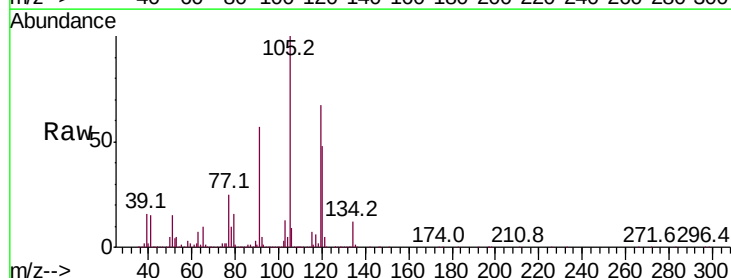
Ion Ratio Lower Upper

105 100

120 47.7 39.2 58.8

91 56.6 42.6 64.0

77 24.8 18.6 28.0

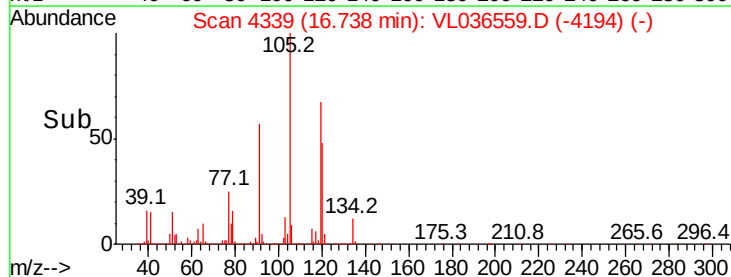
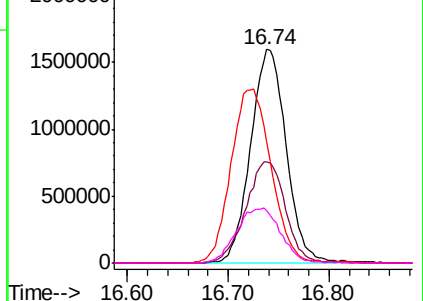


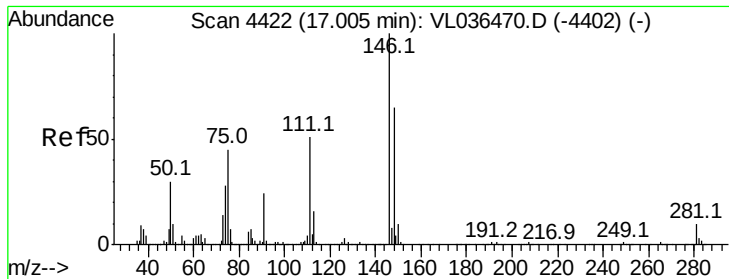
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





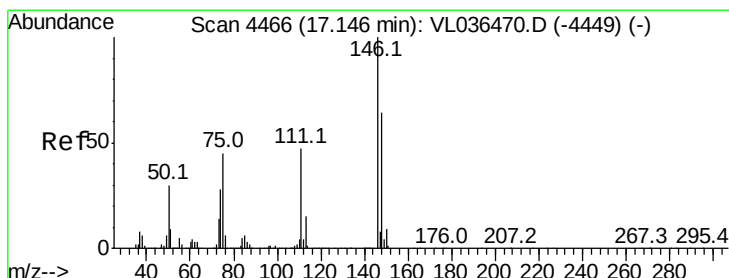
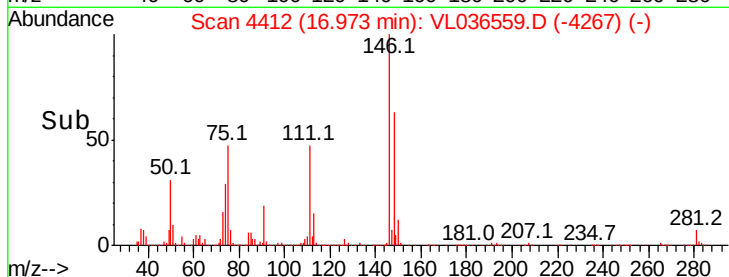
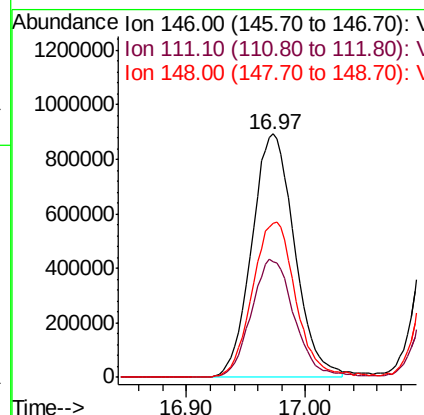
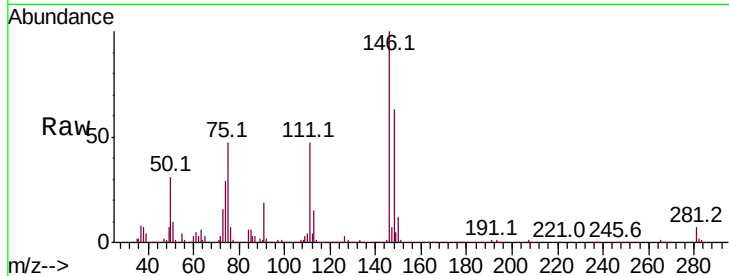
#75  
 1,3-Dichlorobenzene  
 Concen: 9.034 ppbv  
 RT: 16.97 min Scan# 4412  
 Delta R.T. -0.03 min  
 Lab File: VL036559.D  
 Acq: 30 Mar 2021 5:51

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 49.0  | 24.5  | 73.5  |
| 148     | 64.7  | 32.3  | 96.9  |

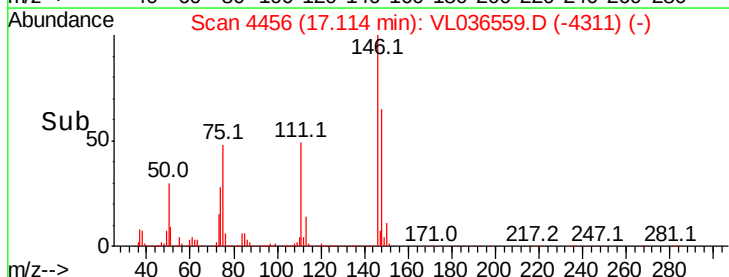
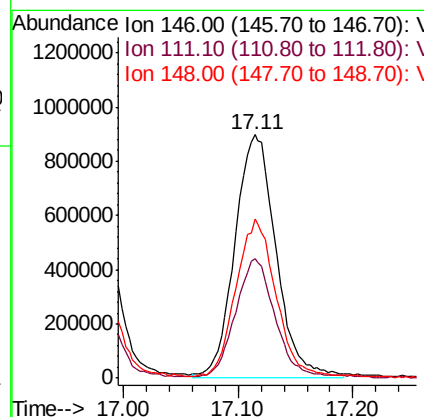
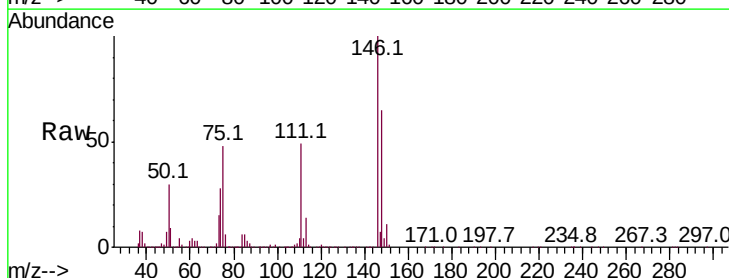
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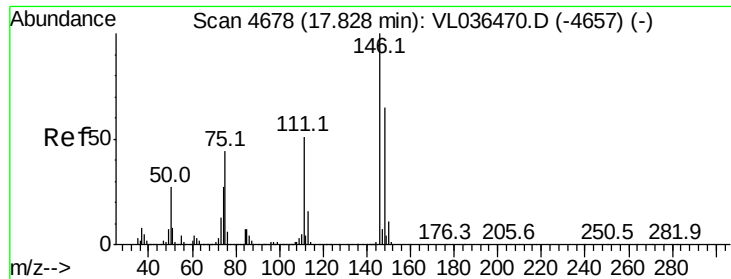
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#76  
 1,4-Dichlorobenzene  
 Concen: 9.222 ppbv m  
 RT: 17.11 min Scan# 4456  
 Delta R.T. -0.03 min  
 Lab File: VL036559.D  
 Acq: 30 Mar 2021 5:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 47.7  | 24.3  | 72.8  |
| 148     | 63.4  | 33.0  | 98.9  |





#77

1,2-Dichlorobenzene

Concen: 9.362 ppbv

RT: 17.80 min Scan# 4668

Delta R.T. -0.03 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 2164607

Ion Ratio Lower Upper

146 100

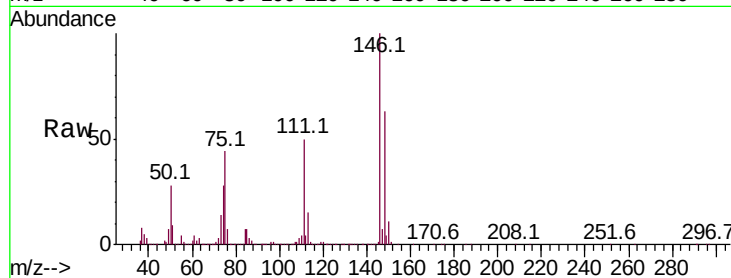
111 51.2 25.5 76.5

148 63.8 32.9 98.6

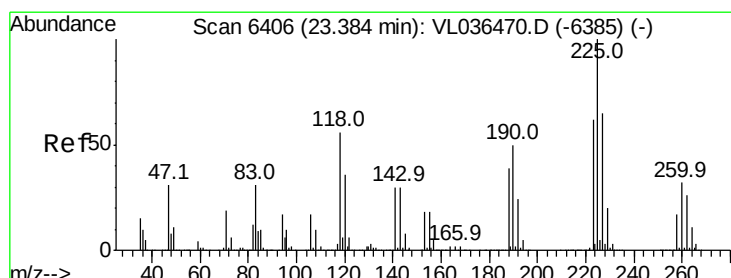
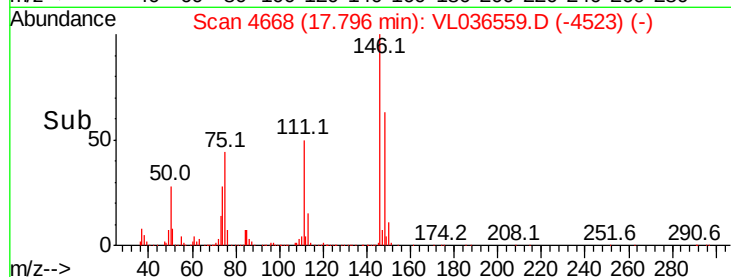
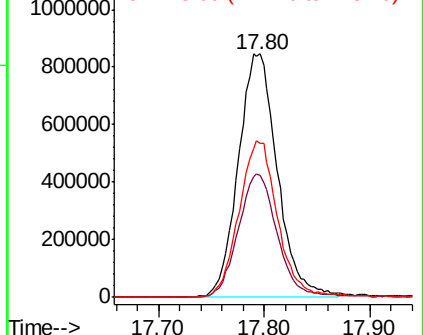
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Abundance Ion 146.00 (145.70 to 146.70): V  
Ion 111.10 (110.80 to 111.80): V  
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 8.020 ppbv

RT: 23.35 min Scan# 6396

Delta R.T. -0.03 min

Lab File: VL036559.D

Acq: 30 Mar 2021 5:51

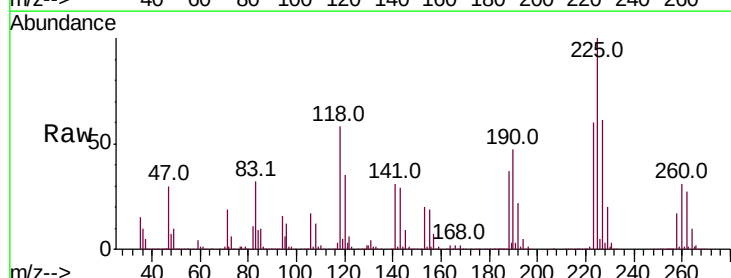
Tgt Ion:225 Resp: 1660713

Ion Ratio Lower Upper

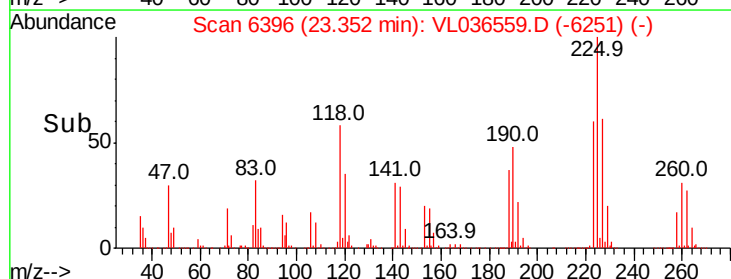
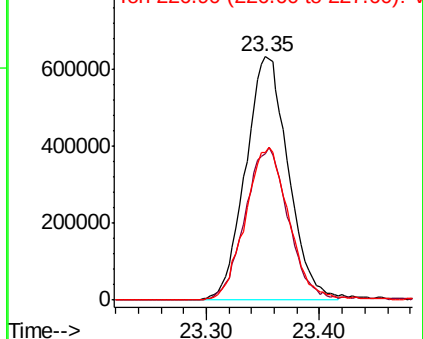
225 100

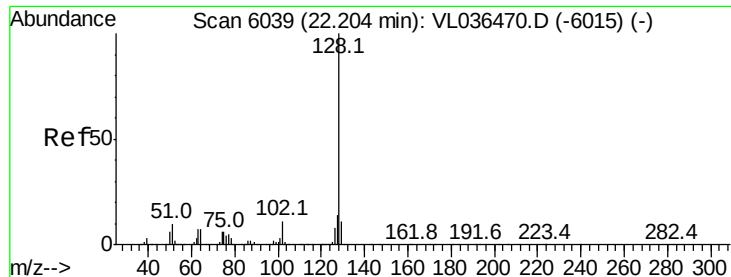
223 63.9 50.6 75.8

227 64.9 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





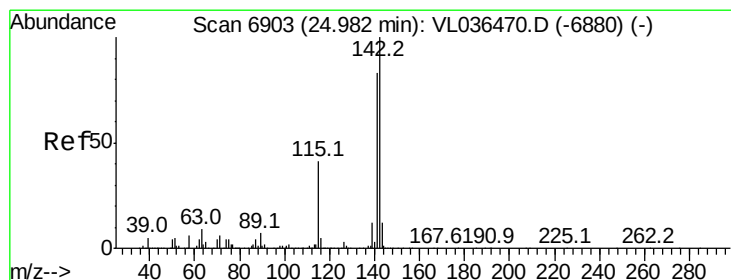
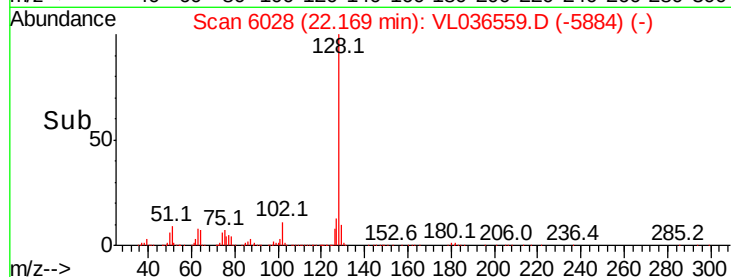
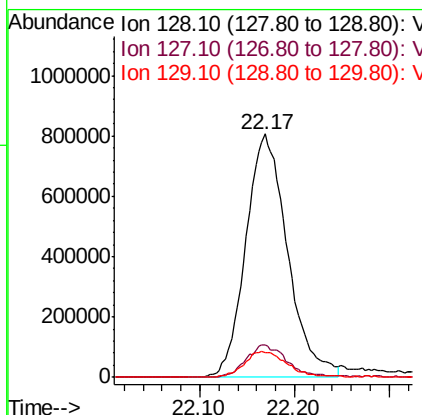
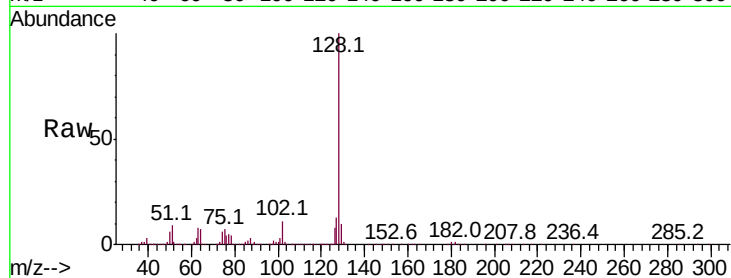
#79  
Naphthalene  
Concen: 9.689 ppbv  
RT: 22.17 min Scan# 6028  
Delta R.T. -0.04 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.3  | 10.9  | 16.3  |
| 129     | 10.3  | 9.0   | 13.4  |

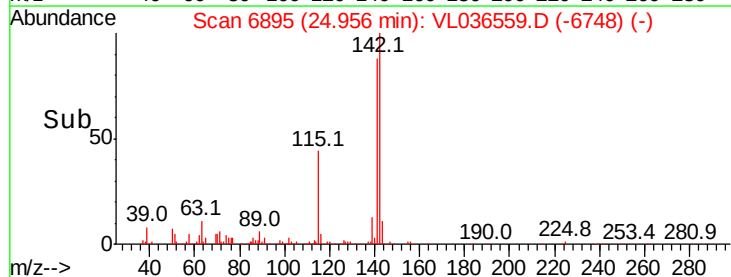
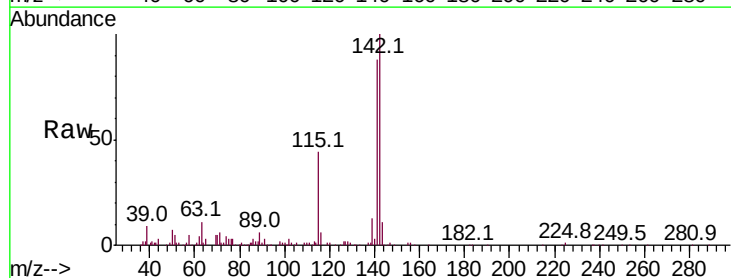
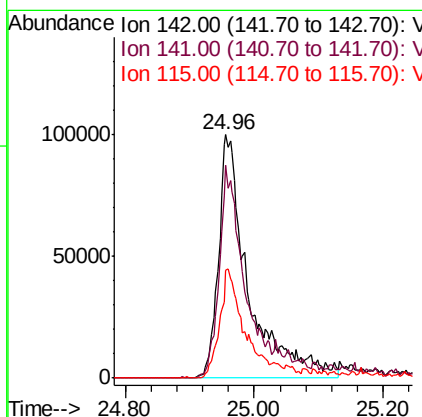
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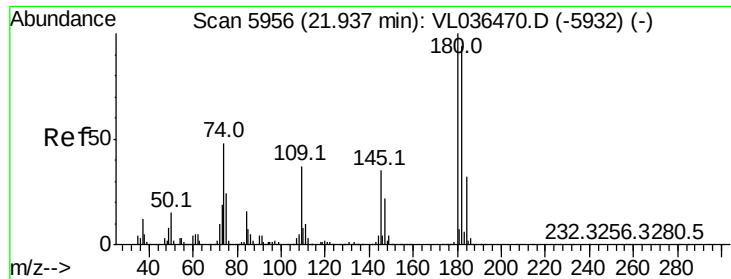
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#80  
Naphthalene, 2-methyl-  
Concen: 6.435 ppbv  
RT: 24.96 min Scan# 6895  
Delta R.T. -0.03 min  
Lab File: VL036559.D  
Acq: 30 Mar 2021 5:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 82.9  | 67.8  | 101.8 |
| 115     | 40.0  | 34.0  | 51.0  |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 9.691 ppbv  
 RT: 21.90 min Scan# 5944  
 Delta R.T. -0.04 min  
 Lab File: VL036559.D  
 Acq: 30 Mar 2021 5:51

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 100.1 | 80.8  | 121.2 |
| 184     | 32.7  | 25.0  | 37.4  |

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