

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111220\  
 Data File : VL035908.D  
 Acq On : 12 Nov 2020 9:37  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

MMDadoda  
 11/16/2020 2:27:54 PM

Quant Time: Nov 13 01:04:05 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Nov 04  
 QLast Update : Wed Nov 04 02:40:06 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 1159753  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 4410820  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 4315531m | 10.00 | ppbv  | 0.00     |

## System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.43  | 95    | 3143604  | 10.25    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.50% |

## Target Compounds

|                                |      |     |         |        | Ovalue   |
|--------------------------------|------|-----|---------|--------|----------|
| 2) Dichlorodifluoromethane     | 3.04 | 85  | 1682480 | 7.706  | ppbv 100 |
| 3) Chlorodifluoromethane       | 2.98 | 51  | 1308572 | 9.422  | ppbv 98  |
| 4) Chloromethane               | 3.13 | 50  | 642847  | 9.528  | ppbv 98  |
| 5) Vinyl Chloride              | 3.25 | 62  | 823397  | 9.574  | ppbv 100 |
| 6) Bromomethane                | 3.47 | 94  | 665128  | 9.616  | ppbv 98  |
| 7) Chloroethane                | 3.55 | 64  | 297508  | 9.828  | ppbv 94  |
| 8) Dichlorotetrafluoroethane   | 3.18 | 85  | 2330497 | 9.326  | ppbv 97  |
| 9) Propene                     | 3.00 | 41  | 498041  | 9.798  | ppbv 99  |
| 10) Heptane                    | 8.13 | 43  | 1412820 | 10.063 | ppbv 100 |
| 11) Trichlorofluoromethane     | 3.95 | 101 | 2707957 | 9.877  | ppbv 100 |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48 | 101 | 1995278 | 9.774  | ppbv 98  |
| 13) Ethanol                    | 3.60 | 45  | 92418   | 8.380  | ppbv 96  |
| 14) Bromoethene                | 3.74 | 108 | 873150  | 9.294  | ppbv 100 |
| 15) Acetone                    | 3.85 | 43  | 1133807 | 9.144  | ppbv 98  |
| 16) 1,3-Butadiene              | 3.32 | 39  | 522640  | 9.791  | ppbv 99  |
| 17) tert-Butyl alcohol         | 4.29 | 59  | 1554215 | 9.459  | ppbv 99  |
| 18) 1,1-Dichloroethene         | 4.29 | 96  | 909790  | 9.707  | ppbv 95  |
| 19) Isopropyl Alcohol          | 3.97 | 45  | 716681  | 9.406  | ppbv 99  |
| 20) Methylene Chloride         | 4.34 | 84  | 766187  | 8.778  | ppbv 99  |
| 21) Allyl Chloride             | 4.41 | 41  | 686163  | 10.233 | ppbv 98  |
| 22) trans-1,2-Dichloroethene   | 4.88 | 96  | 929980  | 9.788  | ppbv 96  |
| 23) Vinyl Acetate              | 5.07 | 43  | 1626041 | 9.356  | ppbv 99  |
| 24) 1,1-Dichloroethane         | 5.01 | 63  | 1607200 | 9.707  | ppbv 99  |
| 25) Ethyl Acetate              | 5.68 | 43  | 2423831 | 9.923  | ppbv 99  |
| 26) Hexane                     | 5.69 | 57  | 1290708 | 9.582  | ppbv 99  |
| 27) Carbon Disulfide           | 4.55 | 76  | 1988326 | 9.851  | ppbv 100 |
| 28) Methyl tert-Butyl Ether    | 5.03 | 73  | 2218202 | 9.170  | ppbv 100 |
| 29) Chloroform                 | 5.75 | 83  | 2505052 | 9.461  | ppbv 100 |
| 30) Cyclohexane                | 7.13 | 84  | 1339439 | 9.130  | ppbv 97  |
| 31) cis-1,2-Dichloroethene     | 5.55 | 61  | 1343124 | 9.692  | ppbv 95  |
| 32) 1,1,1-Trichloroethane      | 6.52 | 97  | 2456540 | 8.891  | ppbv 99  |
| 34) 2-Butanone                 | 5.24 | 43  | 1525685 | 10.658 | ppbv 100 |
| 35) Carbon Tetrachloride       | 7.02 | 117 | 2427738 | 10.301 | ppbv 99  |
| 36) Benzene                    | 6.90 | 78  | 3193728 | 9.739  | ppbv 99  |
| 37) 1,2-Dichloroethane         | 6.31 | 62  | 1583444 | 10.659 | ppbv 99  |
| 38) Trichloroethene            | 7.84 | 130 | 1459805 | 9.114  | ppbv 97  |
| 39) 1,2-Dichloropropane        | 7.62 | 63  | 1116362 | 10.112 | ppbv 97  |
| 40) 1,4-Dioxane                | 7.83 | 88  | 498756  | 9.532  | ppbv 88  |
| 41) Tetrahydrofuran            | 6.05 | 42  | 904582  | 11.123 | ppbv 99  |
| 42) Bromodichloromethane       | 7.80 | 83  | 2628525 | 10.486 | ppbv 98  |
| 43) Methyl Methacrylate        | 8.02 | 69  | 1308917 | 10.465 | ppbv 97  |

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 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

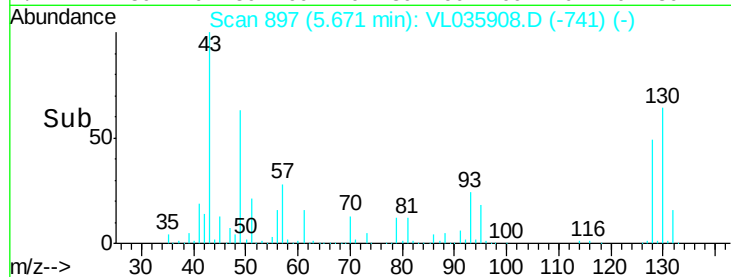
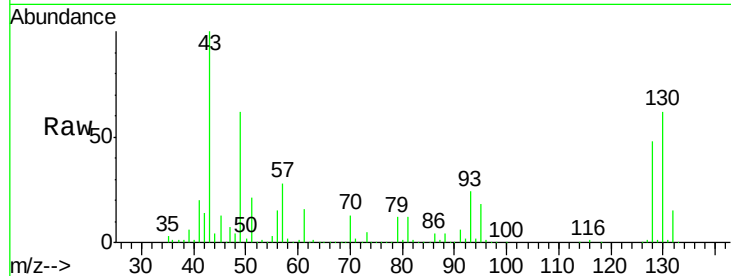
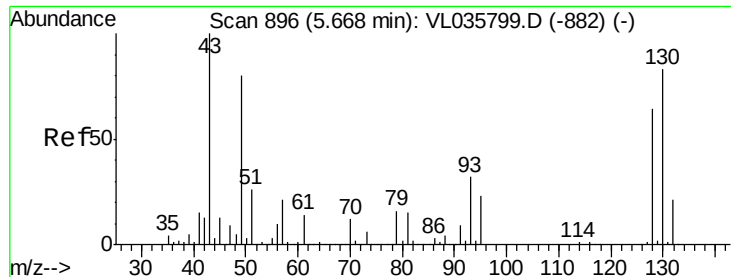
MMDadoda  
 11/16/2020 2:27:54 PM

Quant Time: Nov 13 01:04:05 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Nov 04  
 QLast Update : Wed Nov 04 02:40:06 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 4382811  | 10.100 | ppbv  | 100      |
| 45) t-1,3-Dichloropropene     | 9.29  | 75   | 1387037  | 10.461 | ppbv  | 99       |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 1739177  | 10.357 | ppbv  | 98       |
| 47) 1,1,2-Trichloroethane     | 9.48  | 97   | 1451560  | 9.649  | ppbv  | 98       |
| 48) Dibromochloromethane      | 10.31 | 129  | 2374882  | 10.334 | ppbv  | 99       |
| 49) Bromoform                 | 13.05 | 173  | 1980508  | 10.213 | ppbv  | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.75  | 43   | 2370527  | 10.830 | ppbv  | 99       |
| 51) 2-Hexanone                | 10.14 | 43   | 1926667  | 10.957 | ppbv  | 98       |
| 52) Tetrachloroethene         | 11.23 | 164  | 1353719  | 8.714  | ppbv  | 99       |
| 53) Toluene                   | 9.81  | 91   | 3823109  | 9.662  | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 10.62 | 107  | 2224296  | 9.723  | ppbv  | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 12.13 | 131  | 1845237  | 9.527  | ppbv  | 99       |
| 57) Chlorobenzene             | 12.16 | 112  | 3075692  | 8.964  | ppbv  | 99       |
| 58) Ethyl Benzene             | 12.72 | 91   | 4918024  | 9.357  | ppbv  | 100      |
| 59) m/p-Xylene                | 13.00 | 91   | 8315274m | 18.699 | ppbv  |          |
| 60) o-Xylene                  | 13.70 | 91   | 4045237  | 9.351  | ppbv  | 99       |
| 61) Styrene                   | 13.54 | 104  | 3046576  | 9.612  | ppbv  | 99       |
| 62) Isopropylbenzene          | 14.68 | 105  | 6060358  | 8.913  | ppbv  | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.69 | 83   | 2863206  | 8.542  | ppbv  | 99       |
| 64) n-propylbenzene           | 15.57 | 120  | 1777809  | 9.046  | ppbv  | 97       |
| 65) tert-Butylbenzene         | 16.76 | 119  | 5396942  | 8.721  | ppbv  | 100      |
| 66) Benzyl Chloride           | 17.00 | 91   | 1824205  | 8.918  | ppbv  | 99       |
| 67) sec-Butylbenzene          | 17.30 | 105  | 7286417  | 8.737  | ppbv  | 99       |
| 69) p-Isopropyltoluene        | 17.66 | 119  | 6015674  | 8.741  | ppbv  | 100      |
| 70) n-Butylbenzene            | 18.56 | 91   | 5881831  | 8.874  | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 15.46 | 91   | 4548161  | 9.145  | ppbv  | 99       |
| 72) 4-Ethyltoluene            | 15.85 | 105  | 4773240  | 9.098  | ppbv  | 100      |
| 73) 1,3,5-Trimethylbenzene    | 16.01 | 105  | 4383086  | 9.129  | ppbv  | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.77 | 105  | 4554109  | 8.852  | ppbv  | 97       |
| 75) 1,3-Dichlorobenzene       | 17.01 | 146  | 2795855  | 8.535  | ppbv  | 99       |
| 76) 1,4-Dichlorobenzene       | 17.15 | 146  | 2794356  | 8.843  | ppbv  | 100      |
| 77) 1,2-Dichlorobenzene       | 17.83 | 146  | 2725257  | 8.535  | ppbv  | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.39 | 225  | 1286452  | 8.634  | ppbv  | 100      |
| 79) Naphthalene               | 22.21 | 128  | 3064996  | 8.546  | ppbv  | 98       |
| 80) Naphthalene, 2-methyl-    | 24.99 | 142  | 550038   | 9.411  | ppbv  | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.94 | 180  | 1659287  | 8.281  | ppbv  | 97       |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Tot Ion: 49 Resp: 1159753

Ion Ratio Lower Upper

49 100

128 80.8 41.5 124.6

130 104.4 53.7 161.1

Instrument :

MSVOA\_L

ClientSampleId :

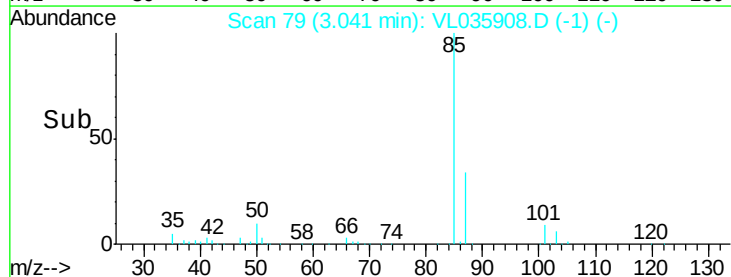
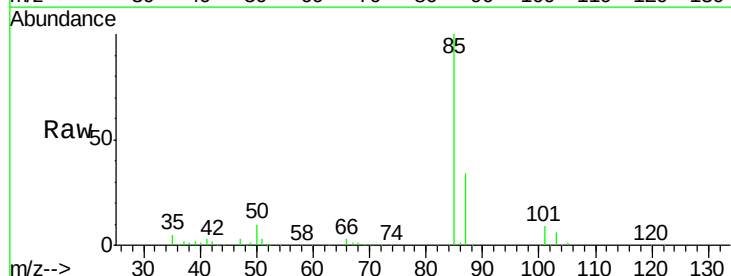
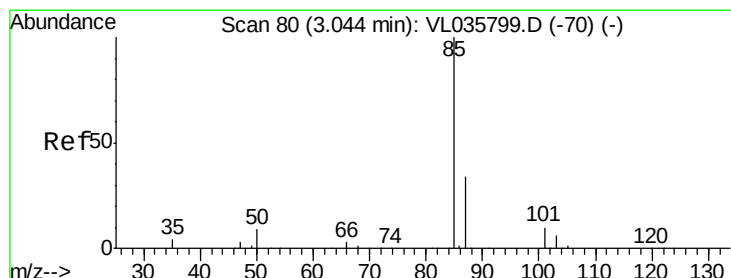
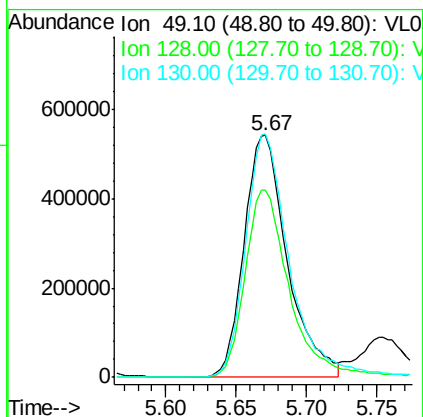
VSTDCCC010

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 7.706 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.00 min

Lab File: VL035908.D

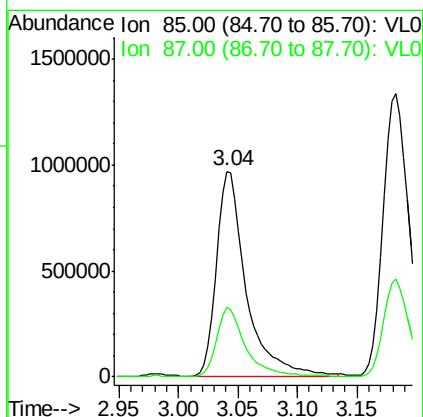
Acq: 12 Nov 2020 9:37

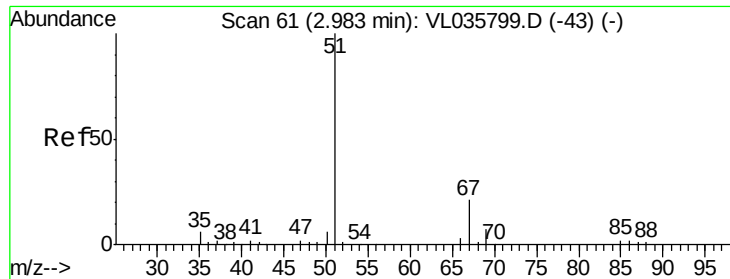
Tgt Ion: 85 Resp: 1682480

Ion Ratio Lower Upper

85 100

87 33.8 27.1 40.7





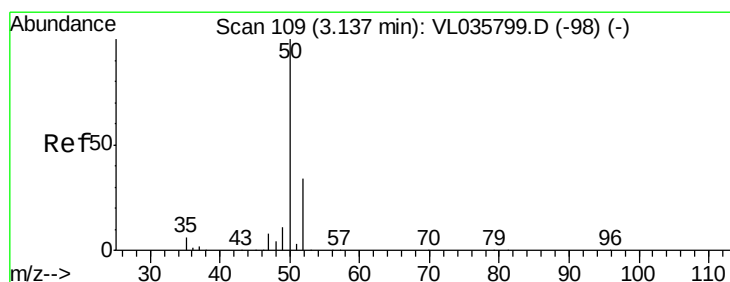
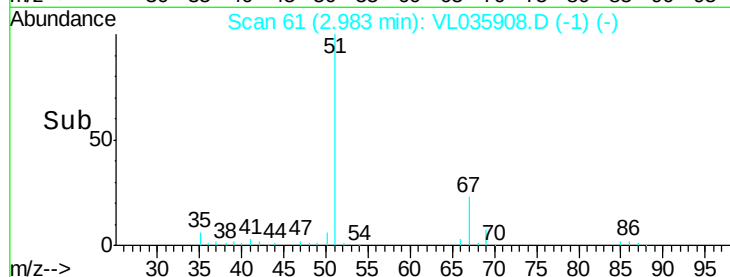
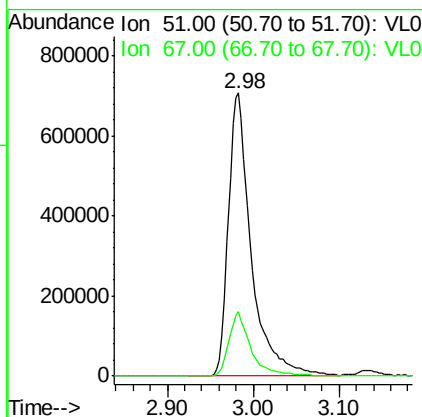
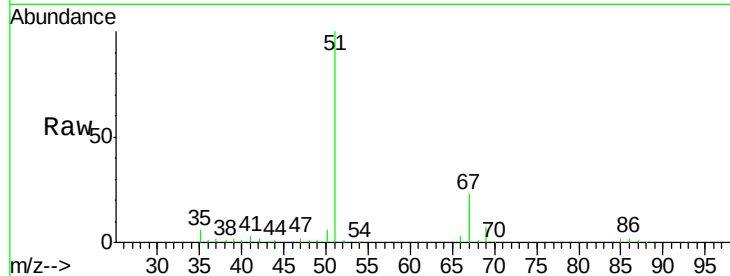
#3  
Chlorodifluoromethane  
Concen: 9.422 ppbv  
RT: 2.98 min Scan# 61  
Delta R.T. -0.00 min  
Lab File: VL035908.D  
Acq: 12 Nov 2020 9:37

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 51 Resp: 1308572  
Ion Ratio Lower Upper  
51 100  
67 21.9 17.0 25.4

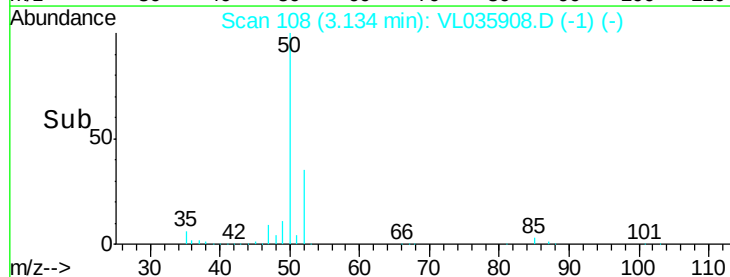
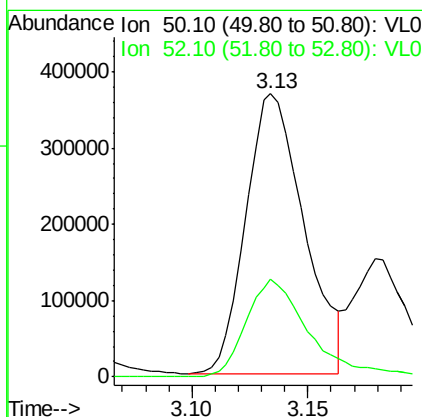
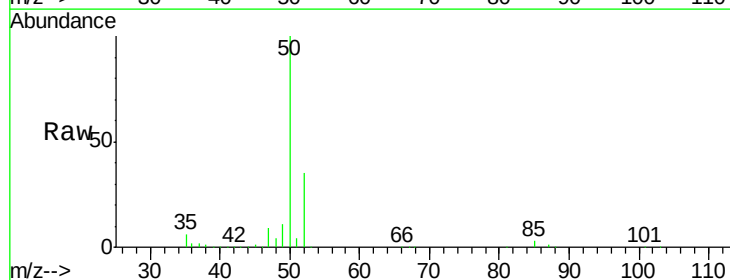
Manual Integrations  
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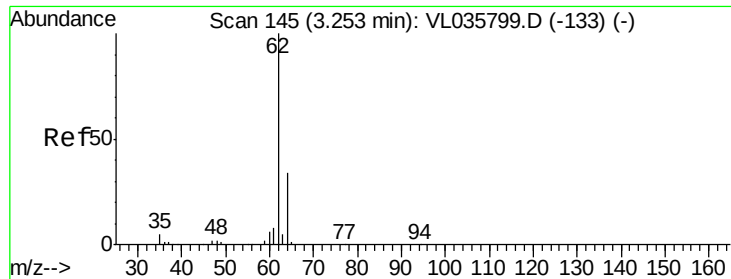
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11/16/2020 2:27:54 PM



#4  
Chloromethane  
Concen: 9.528 ppbv  
RT: 3.13 min Scan# 108  
Delta R.T. -0.00 min  
Lab File: VL035908.D  
Acq: 12 Nov 2020 9:37

Tgt Ion: 50 Resp: 642847  
Ion Ratio Lower Upper  
50 100  
52 35.1 27.1 40.7





#5

Vinyl Chloride

Concen: 9.574 ppbv

RT: 3.25 min Scan# 144

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 823397

Ion Ratio Lower Upper

62 100

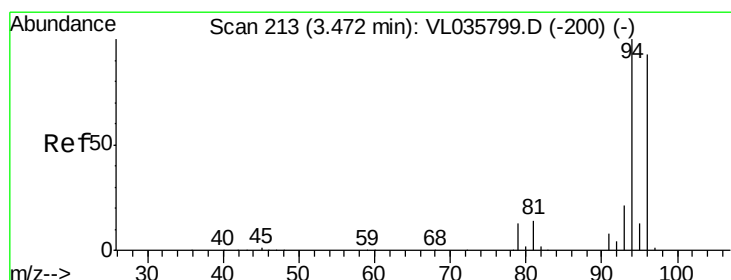
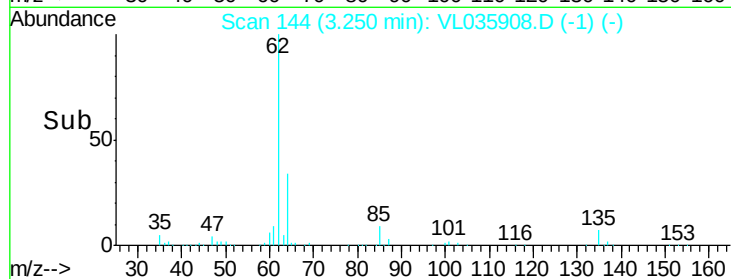
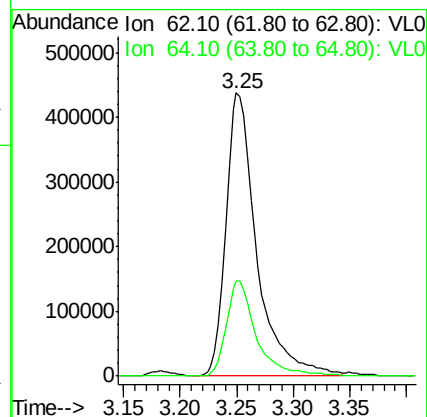
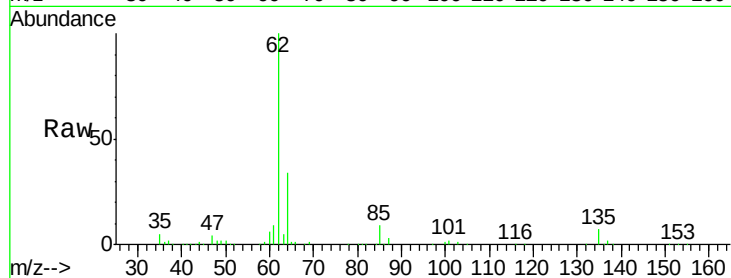
64 33.9 26.9 40.3

Manual Integrations

APPROVED

MMDadoda

11/16/2020 2:27:54 PM



#6

Bromomethane

Concen: 9.616 ppbv

RT: 3.47 min Scan# 212

Delta R.T. -0.00 min

Lab File: VL035908.D

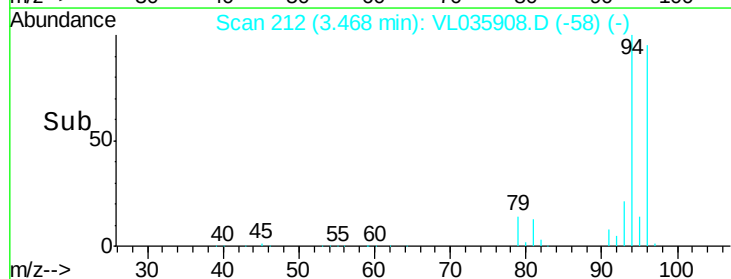
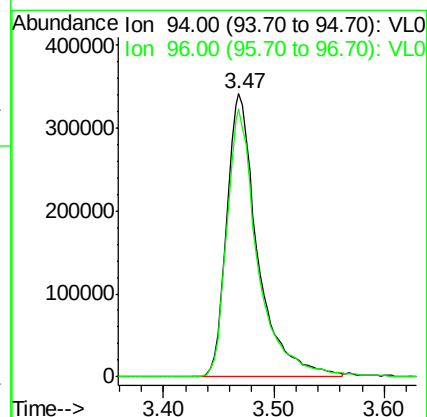
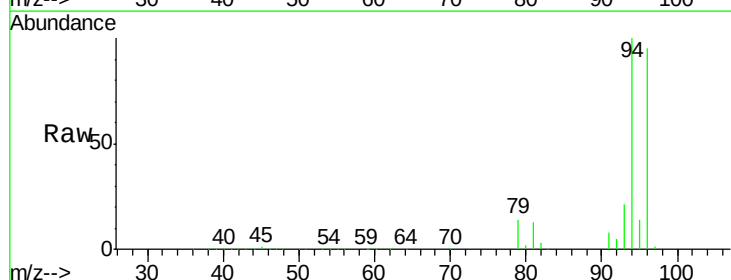
Acq: 12 Nov 2020 9:37

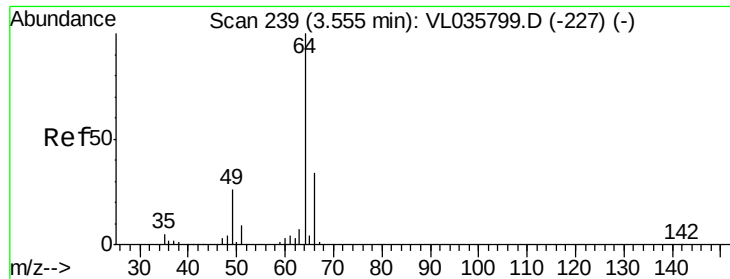
Tgt Ion: 94 Resp: 665128

Ion Ratio Lower Upper

94 100

96 94.9 74.6 111.8





#7

Chloroethane

Concen: 9.828 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 297508

Ion Ratio Lower Upper

64 100

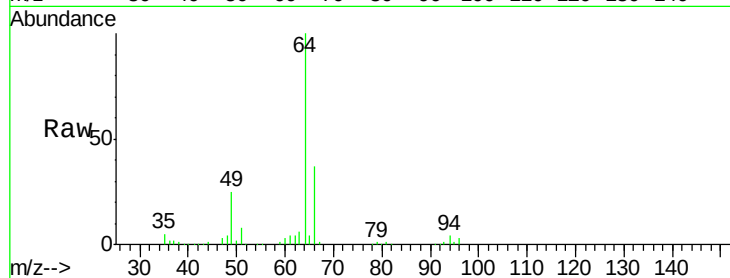
66 37.2 27.0 40.6

Manual Integrations

APPROVED

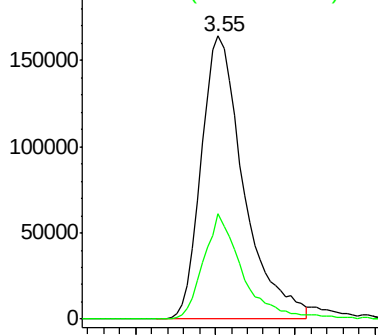
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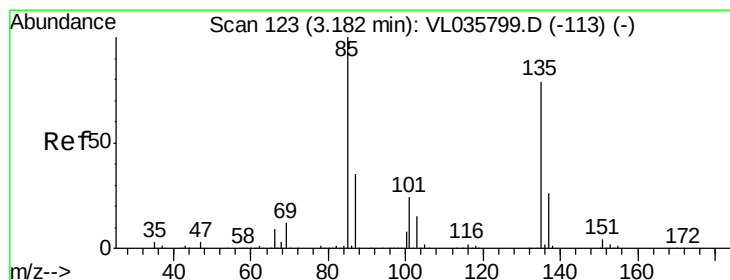
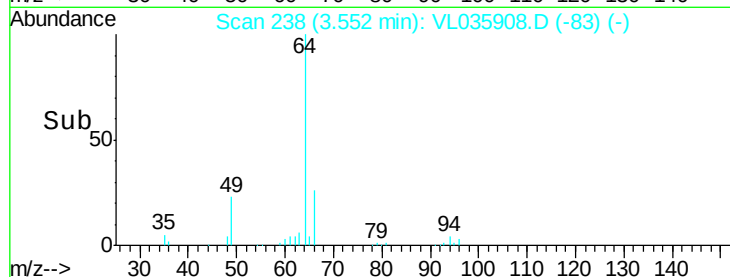


Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.326 ppbv

RT: 3.18 min Scan# 123

Delta R.T. -0.00 min

Lab File: VL035908.D

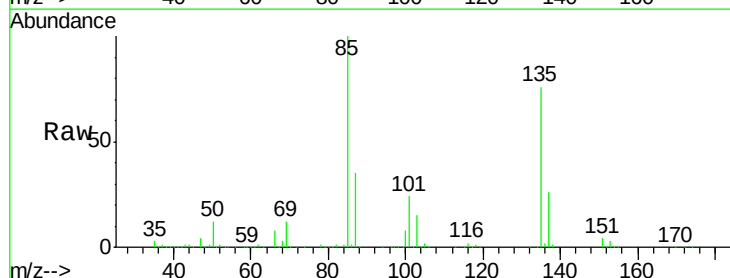
Acq: 12 Nov 2020 9:37

Tgt Ion: 85 Resp: 2330497

Ion Ratio Lower Upper

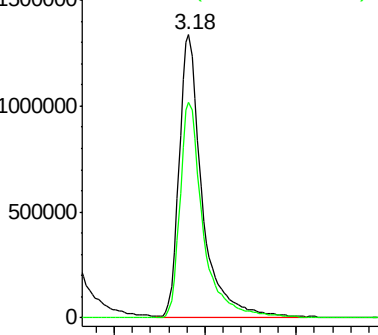
85 100

135 77.8 64.6 96.8

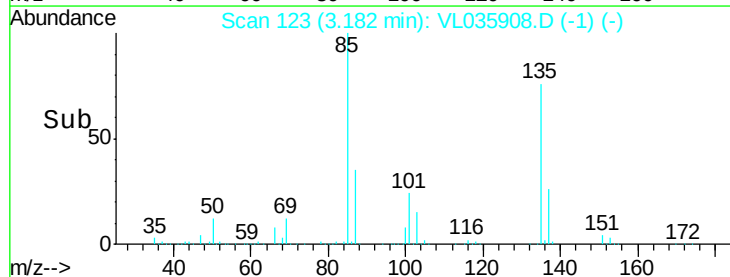


Abundance Ion 85.00 (84.70 to 85.70): VL0

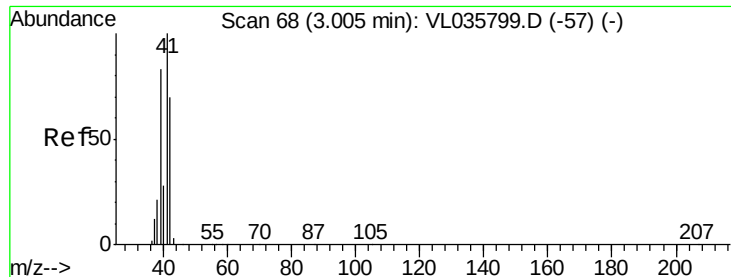
Ion 135.00 (134.70 to 135.70): V



Time-->







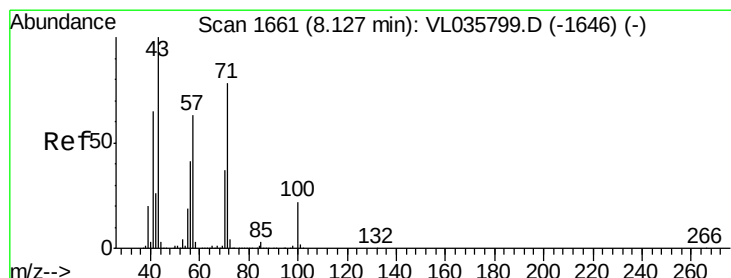
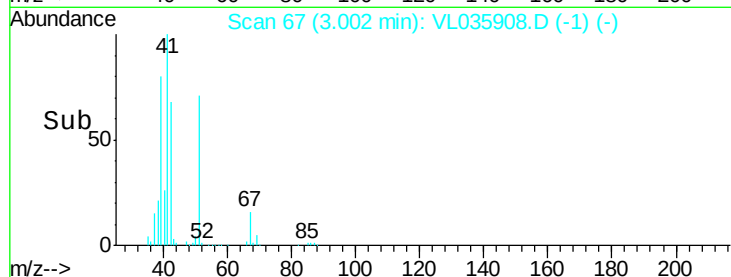
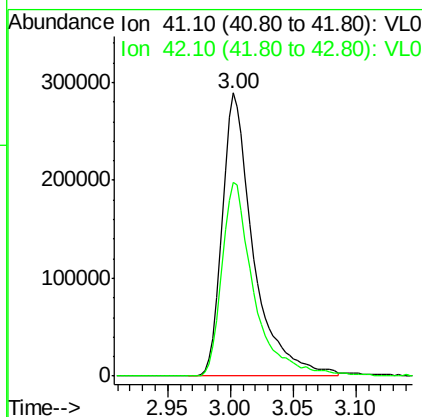
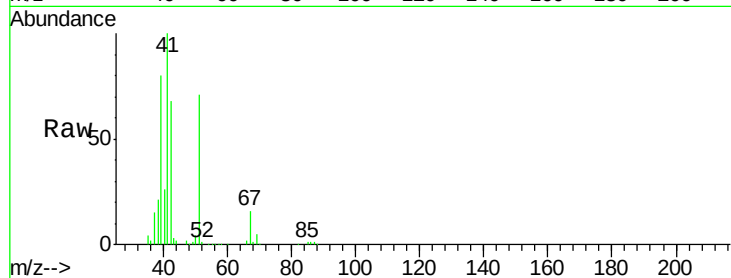
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 Propene  
 Concen: 9.798 ppbv  
 RT: 3.00 min Scan# 67  
 Delta R.T. -0.00 min  
 Lab File: VL035908.D  
 Acq: 12 Nov 2020 9:37

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tot Ion: 41 Resp: 498041  
 Ion Ratio Lower Upper  
 41 100  
 42 70.8 56.2 84.4

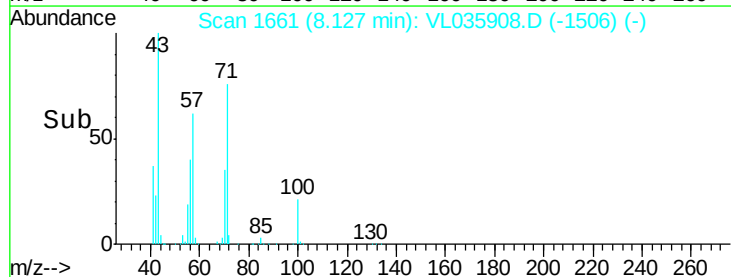
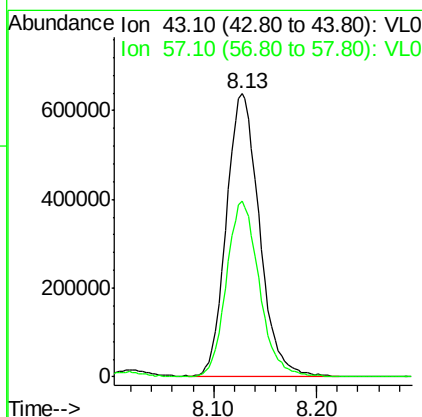
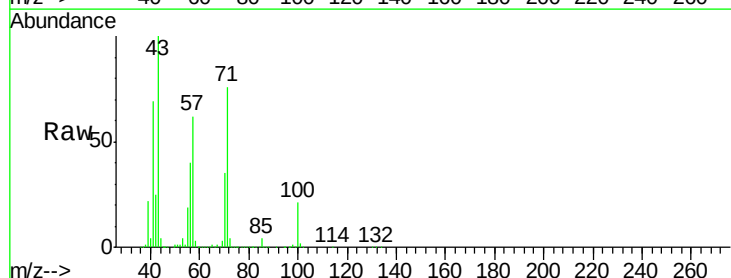
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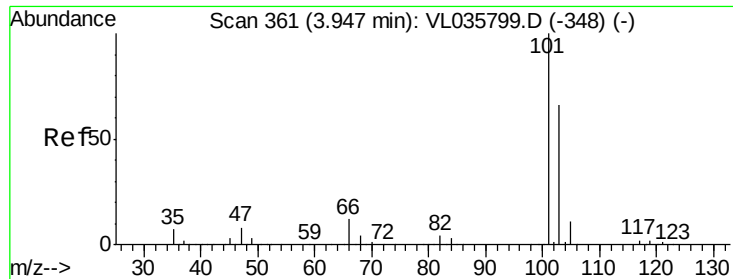


#10  
 Heptane  
 Concen: 10.063 ppbv  
 RT: 8.13 min Scan# 1661  
 Delta R.T. -0.00 min  
 Lab File: VL035908.D  
 Acq: 12 Nov 2020 9:37

Tgt Ion: 43 Resp: 1412820  
 Ion Ratio Lower Upper  
 43 100  
 57 62.5 50.0 75.0







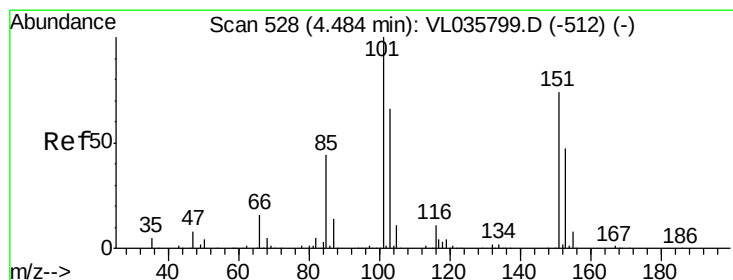
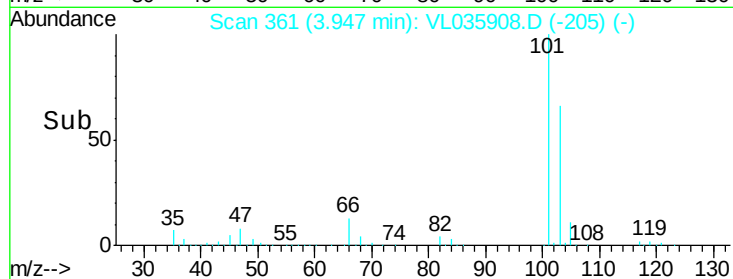
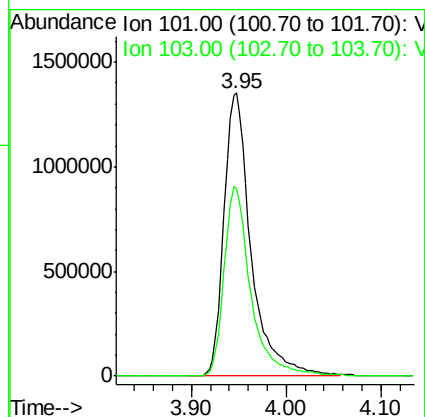
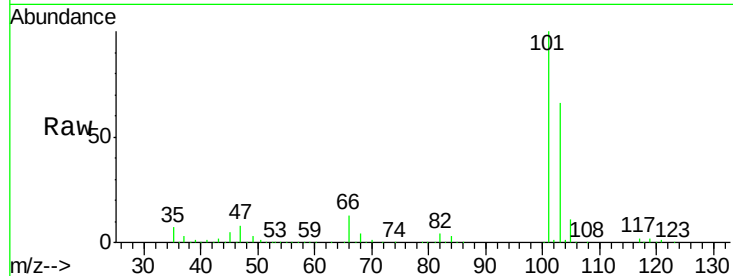
#11  
 Trichlorofluoromethane  
 Concen: 9.877 ppbv  
 RT: 3.95 min Scan# 361  
 Delta R.T. -0.00 min  
 Lab File: VL035908.D  
 Acq: 12 Nov 2020 9:37

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tot Ion:101 Resp: 2707957  
 Ion Ratio Lower Upper  
 101 100  
 103 66.4 53.0 79.4

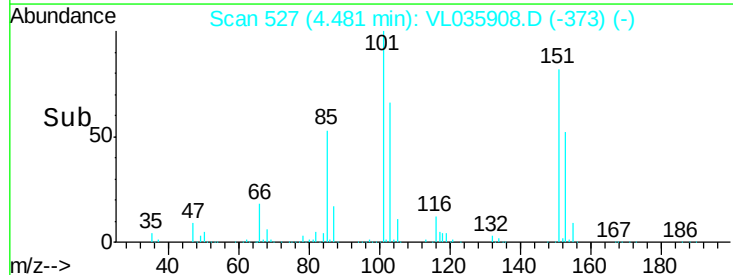
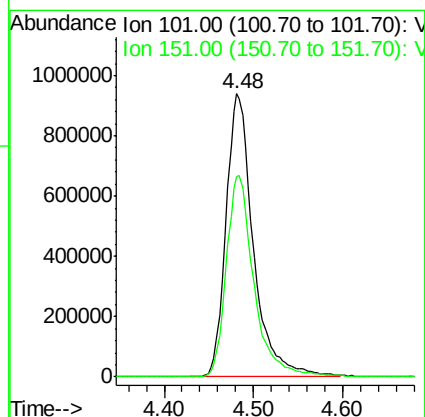
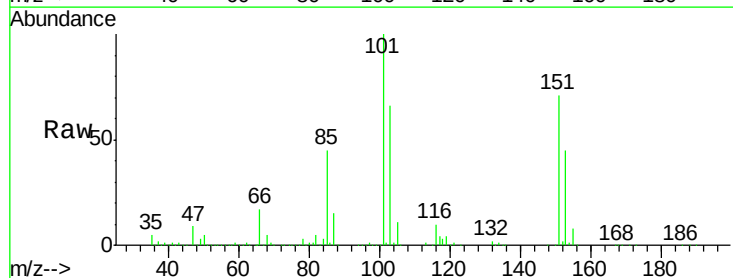
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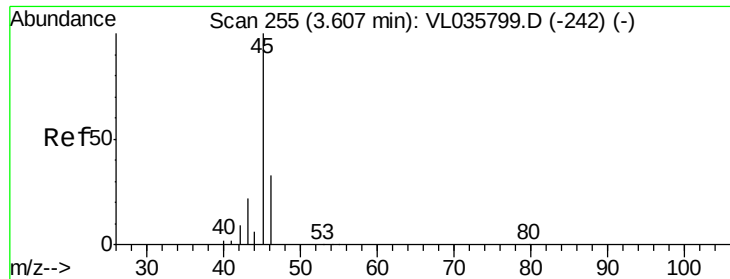
MMDadoda  
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#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.774 ppbv  
 RT: 4.48 min Scan# 527  
 Delta R.T. -0.00 min  
 Lab File: VL035908.D  
 Acq: 12 Nov 2020 9:37

Tgt Ion:101 Resp: 1995278  
 Ion Ratio Lower Upper  
 101 100  
 151 72.3 58.9 88.3





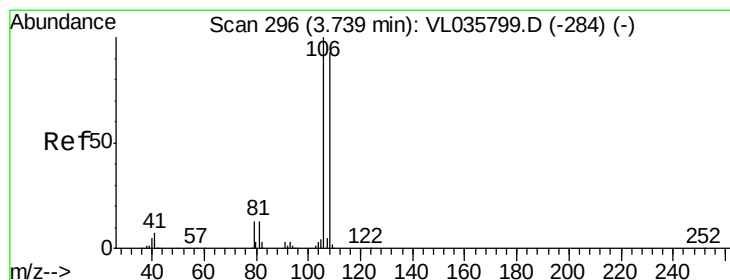
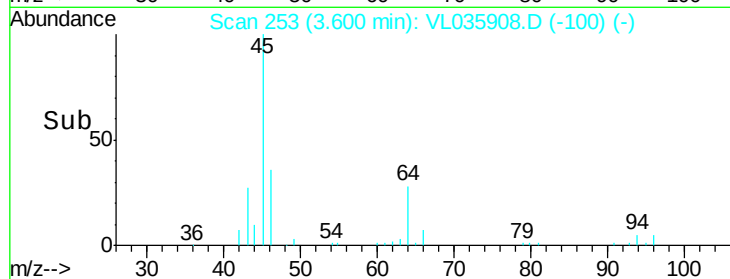
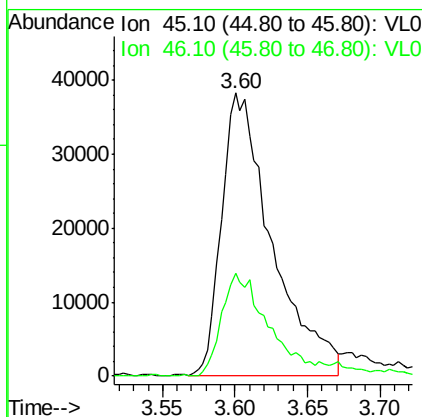
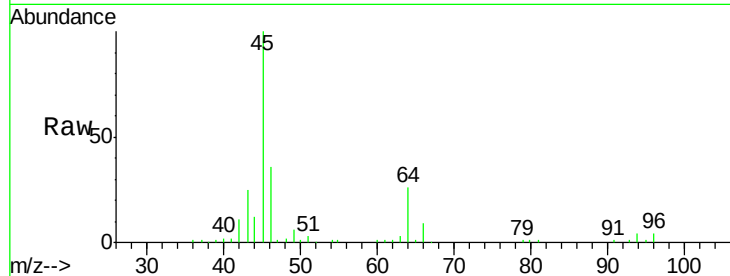
#13  
Ethanol  
Concen: 8.380 ppbv  
RT: 3.60 min Scan# 253  
Delta R.T. -0.01 min  
Lab File: VL035908.D  
Acq: 12 Nov 2020 9:37

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

| Tot Ion | 45   | 46 | Ratio | Lower | Upper |
|---------|------|----|-------|-------|-------|
| 45      | 100  |    |       |       |       |
| 46      | 37.9 |    | 16.1  | 64.5  |       |

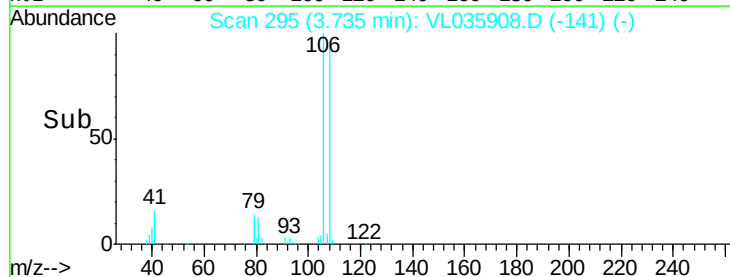
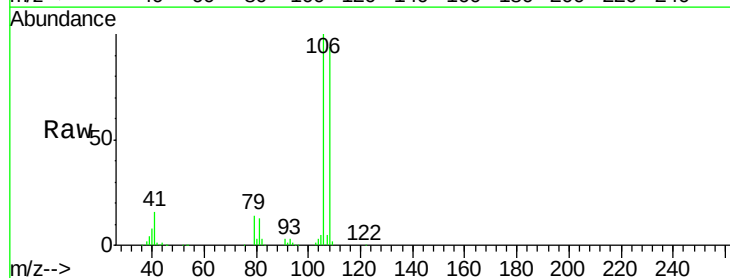
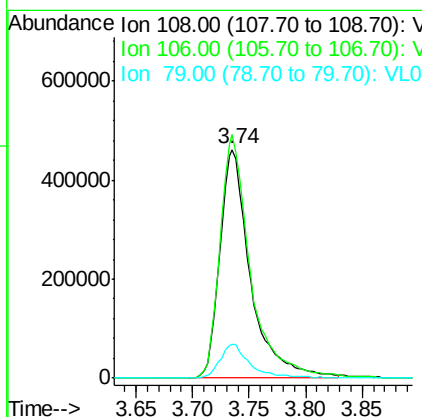
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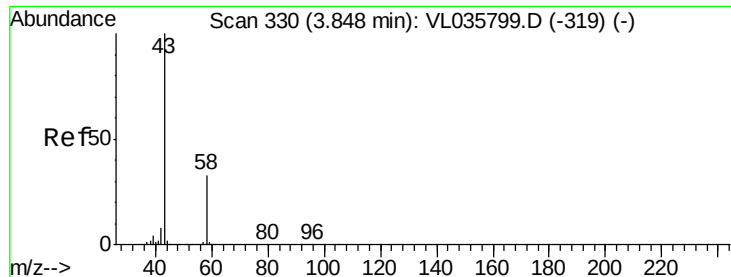
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#14  
Bromoethene  
Concen: 9.294 ppbv  
RT: 3.74 min Scan# 295  
Delta R.T. -0.00 min  
Lab File: VL035908.D  
Acq: 12 Nov 2020 9:37

| Tgt Ion | 108   | 106 | 79 | Ratio | Lower | Upper |
|---------|-------|-----|----|-------|-------|-------|
| 108     | 100   |     |    |       |       |       |
| 106     | 106.5 |     |    | 85.3  | 127.9 |       |
| 79      | 14.8  |     |    | 11.6  | 17.4  |       |





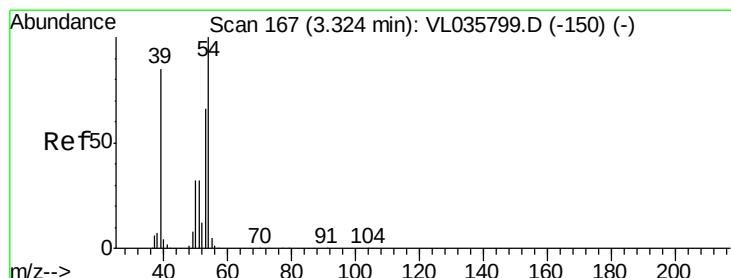
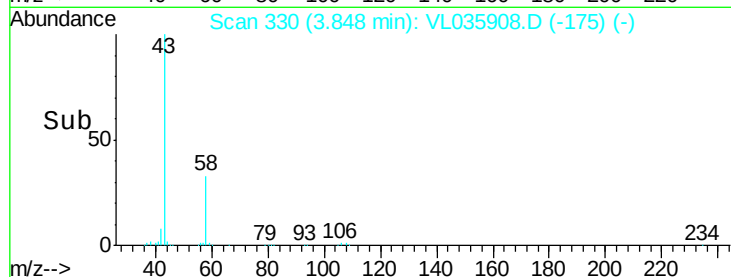
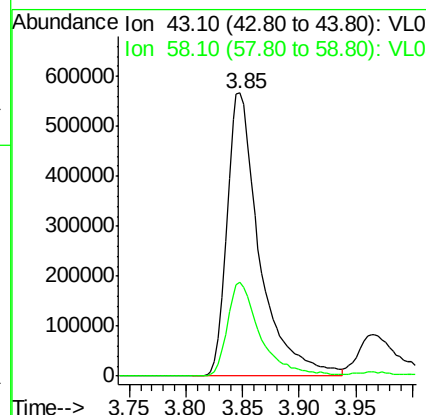
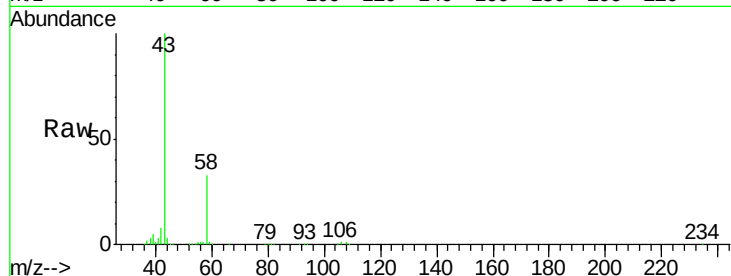
#15  
Acetone  
Concen: 9.144 ppbv  
RT: 3.85 min Scan# 330  
Delta R.T. -0.00 min  
Lab File: VL035908.D  
Acq: 12 Nov 2020 9:37

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 43 Resp: 1133807  
Ion Ratio Lower Upper  
43 100  
58 33.5 27.5 41.3

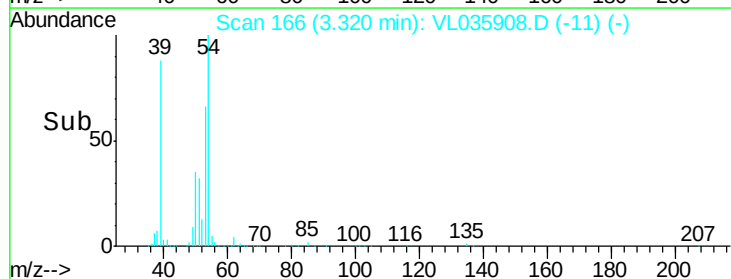
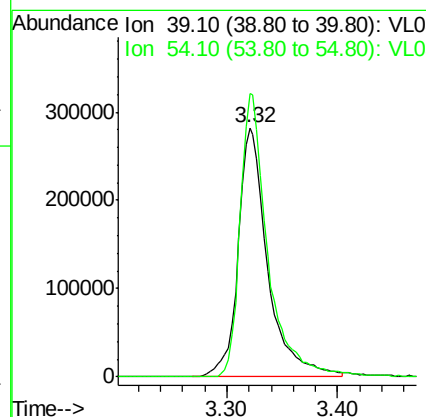
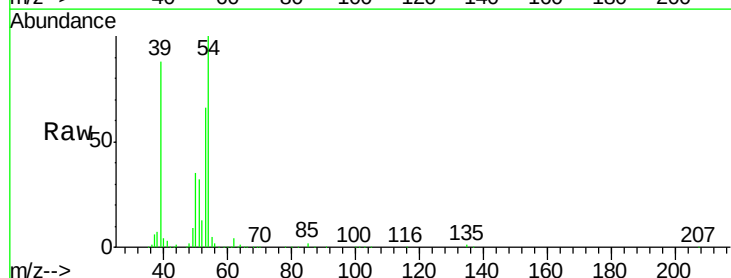
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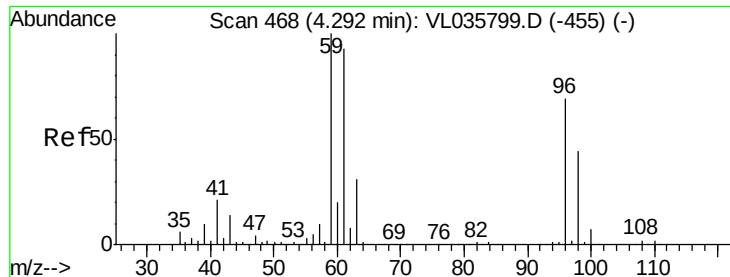
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#16  
1,3-Butadiene  
Concen: 9.791 ppbv  
RT: 3.32 min Scan# 166  
Delta R.T. -0.00 min  
Lab File: VL035908.D  
Acq: 12 Nov 2020 9:37

Tgt Ion: 39 Resp: 522640  
Ion Ratio Lower Upper  
39 100  
54 108.1 87.1 130.7





#17

tert-Butyl alcohol

Concen: 9.459 ppbv

RT: 4.29 min Scan# 467

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Tot Ion: 59 Resp: 1554215

Ion Ratio Lower Upper

59 100

57 10.5 8.2 12.4

Instrument :

MSVOA\_L

ClientSampleId :

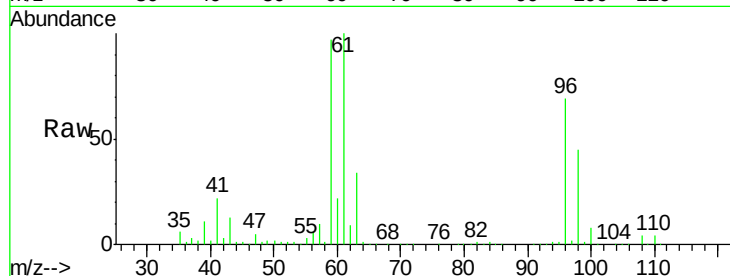
VSTDCCC010

Manual Integrations

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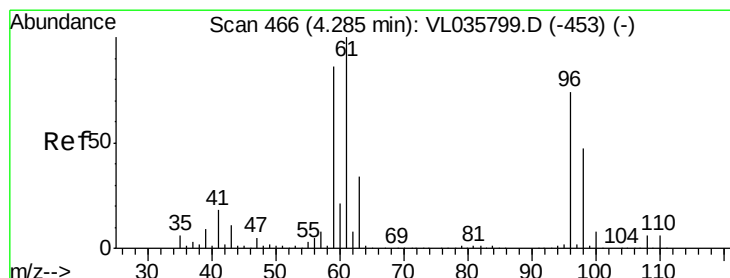
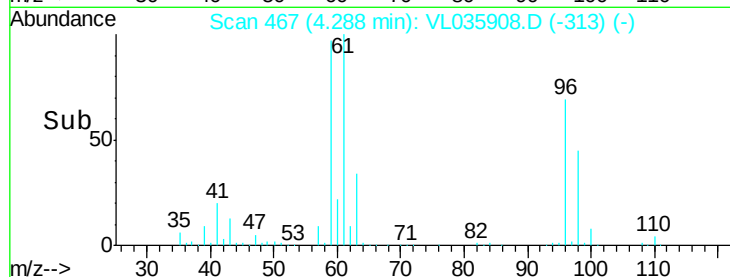
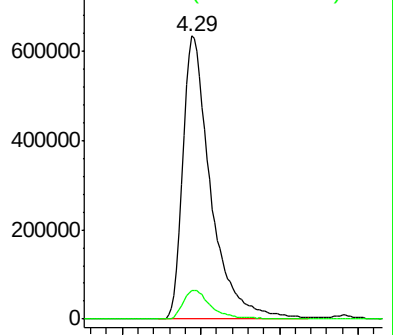
MMDadoda

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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 9.707 ppbv

RT: 4.29 min Scan# 466

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

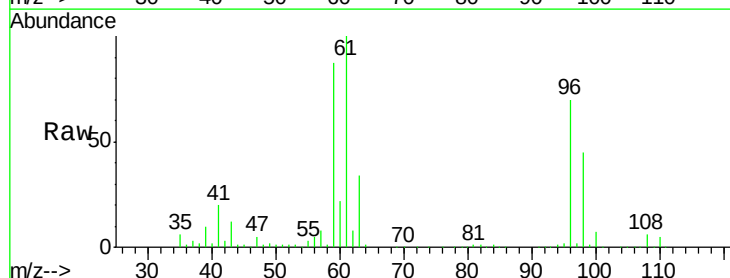
Tgt Ion: 96 Resp: 909790

Ion Ratio Lower Upper

96 100

61 143.9 108.5 162.7

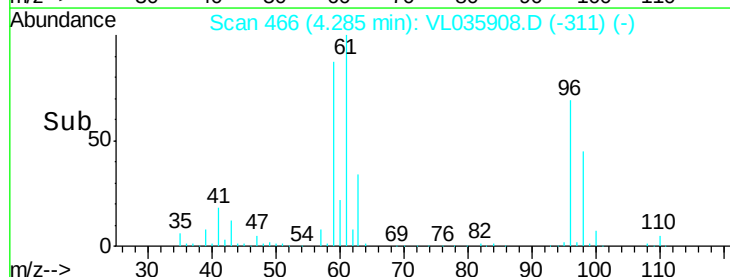
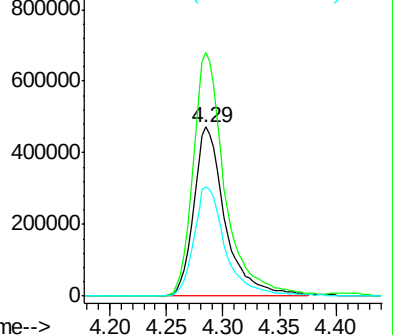
98 64.2 50.7 76.1

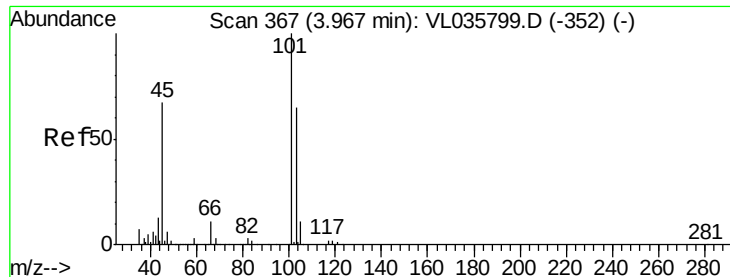


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 9.406 ppbv

RT: 3.97 min Scan# 367

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 716681

Ion Ratio Lower Upper

45 100

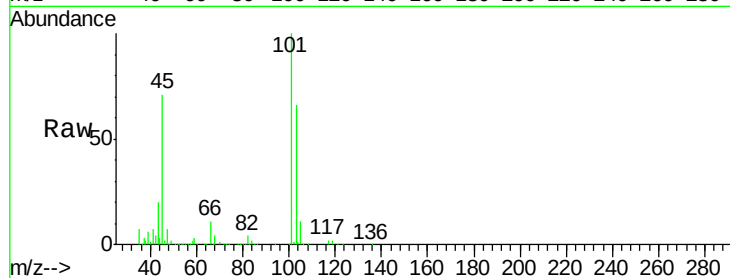
58 3.6 2.6 3.8

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.97

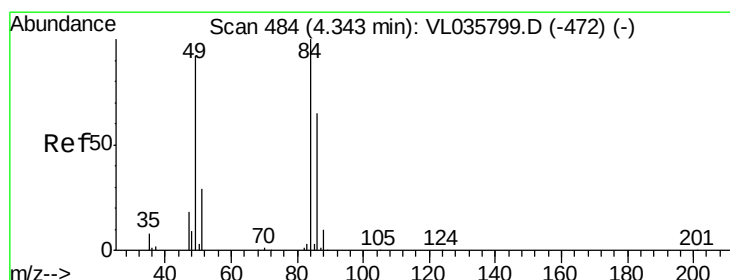
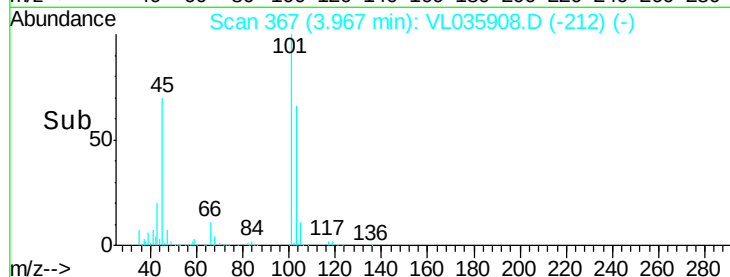
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 8.778 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Tgt Ion: 84 Resp: 766187

Ion Ratio Lower Upper

84 100

49 94.0 73.8 110.8

51 29.7 23.0 34.4

86 65.6 52.1 78.1

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

600000

500000

400000

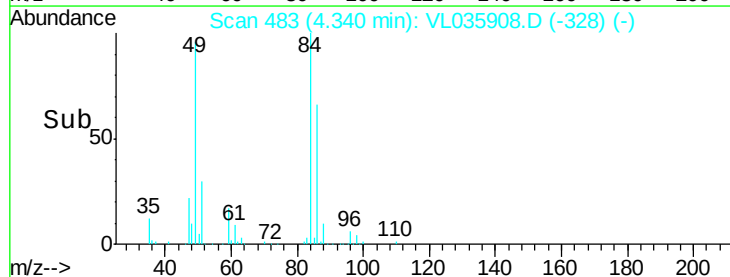
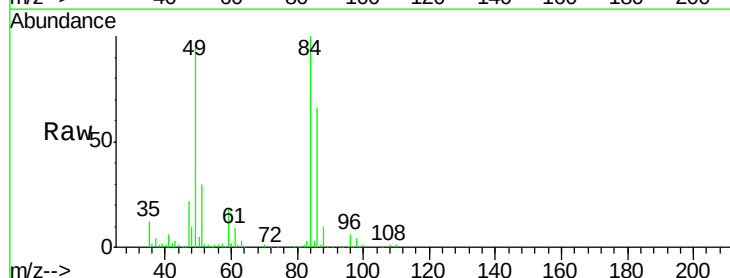
300000

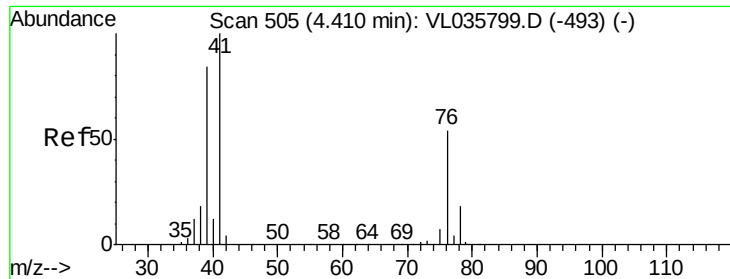
200000

100000

0

Time-->





#21

Allvl Chloride

Concen: 10.233 ppbv

RT: 4.41 min Scan# 504

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Instrument :

MSVOA\_L

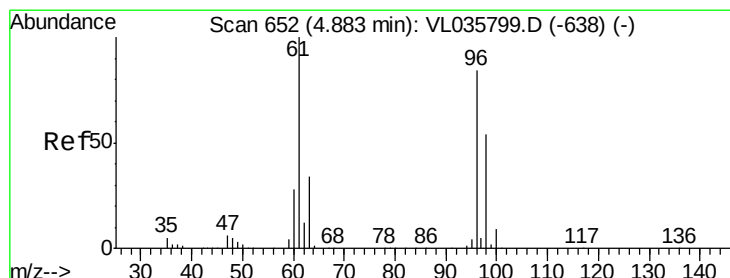
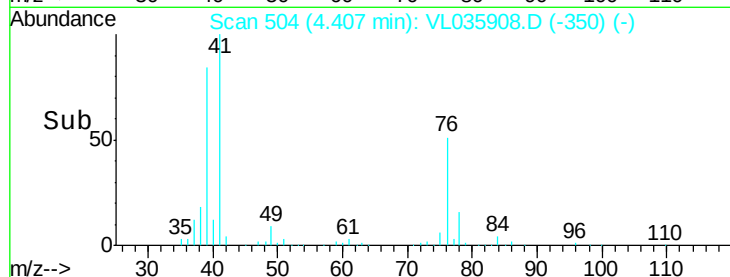
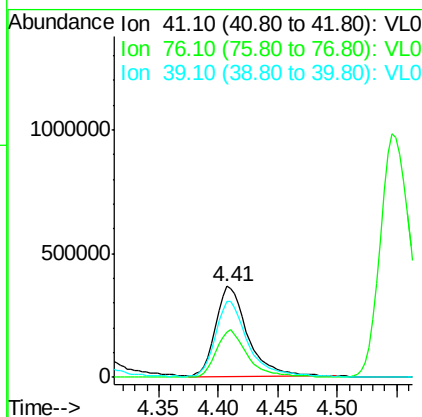
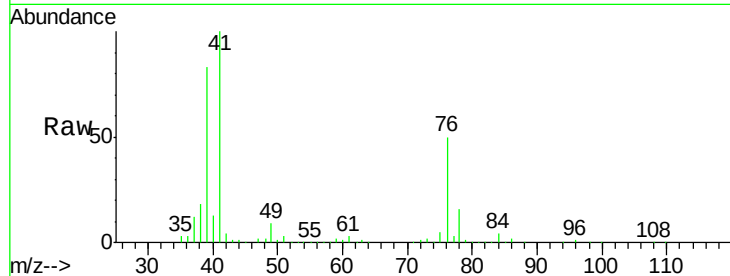
ClientSampleId :

VSTDCCC010

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 41    | Resp: | 686163 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 76       | 52.1  | 42.6  | 63.8   |
| 39       | 85.2  | 67.0  | 100.4  |

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#22

trans-1,2-Dichloroethene

Concen: 9.788 ppbv

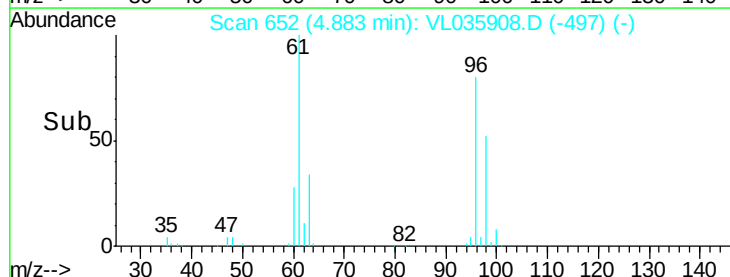
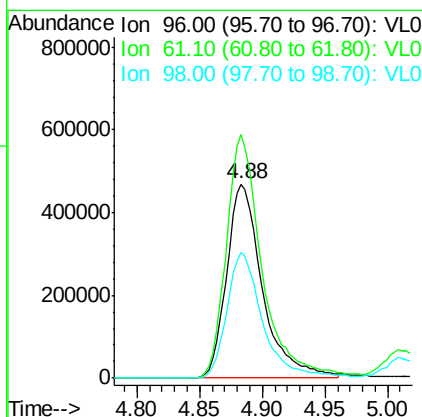
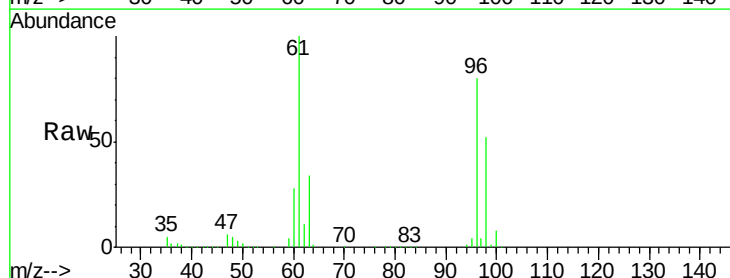
RT: 4.88 min Scan# 652

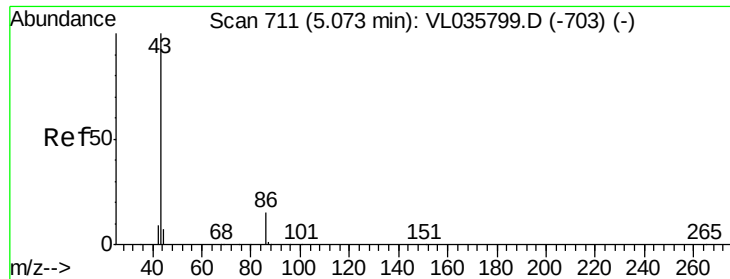
Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 929980 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 125.6 | 95.4  | 143.0  |
| 98       | 64.7  | 51.8  | 77.6   |





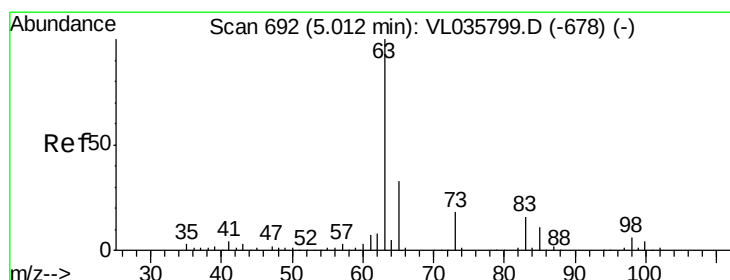
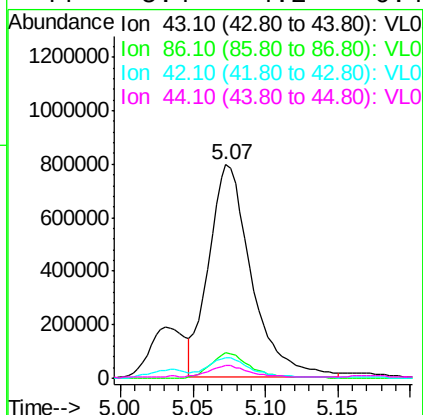
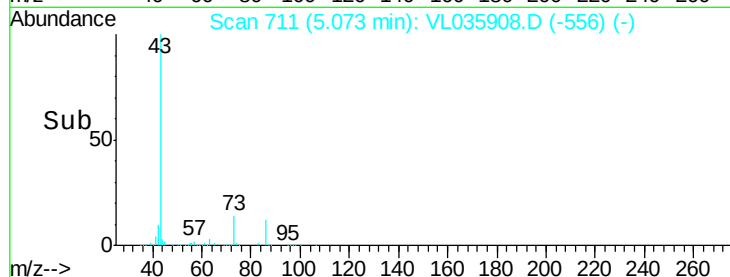
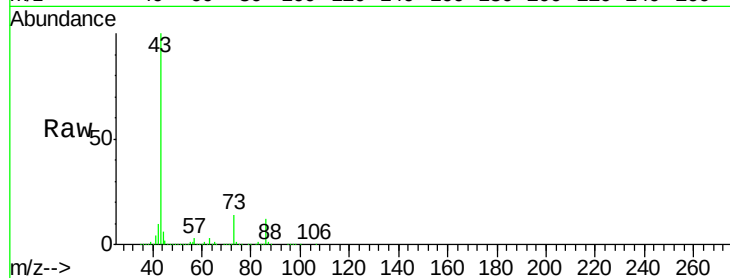
#23  
 Vinyl Acetate  
 Concen: 9.356 ppbv  
 RT: 5.07 min Scan# 711  
 Delta R.T. -0.00 min  
 Lab File: VL035908.D  
 Acq: 12 Nov 2020 9:37

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

| Tot Ion: | 43    | Resp: | 1626041 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 43       | 100   |       |         |
| 86       | 11.8  | 9.8   | 14.6    |
| 42       | 9.8   | 8.1   | 12.1    |
| 44       | 5.4   | 4.2   | 6.4     |

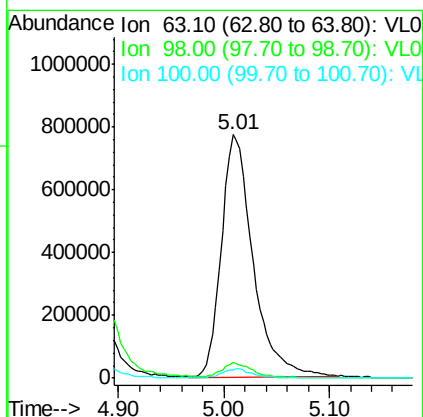
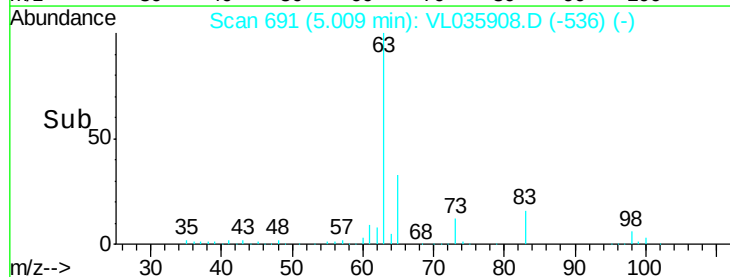
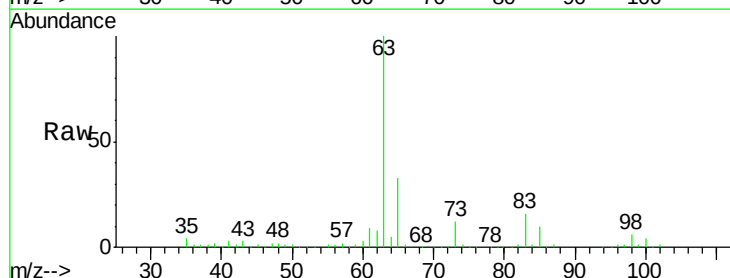
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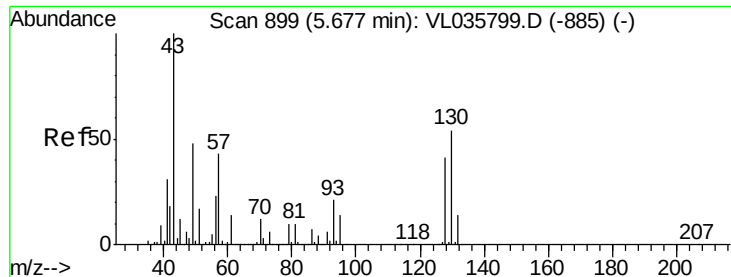


#24  
 1,1-Dichloroethane  
 Concen: 9.707 ppbv  
 RT: 5.01 min Scan# 691  
 Delta R.T. -0.00 min  
 Lab File: VL035908.D  
 Acq: 12 Nov 2020 9:37

| Tgt Ion: | 63    | Resp: | 1607200 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 63       | 100   |       |         |
| 98       | 6.3   | 3.0   | 9.2     |
| 100      | 3.5   | 1.8   | 5.4     |







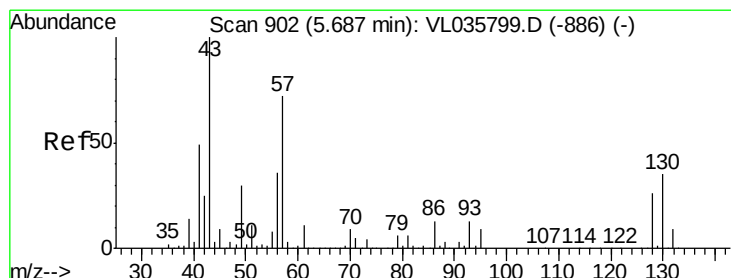
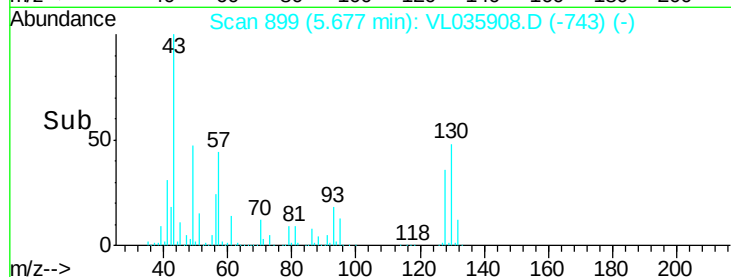
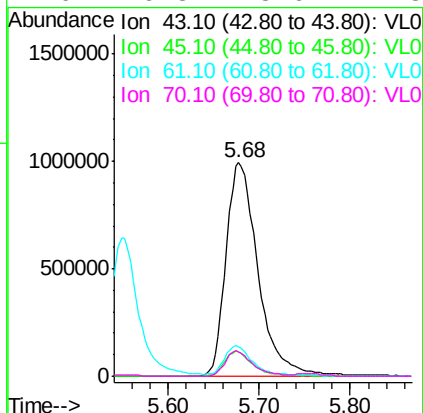
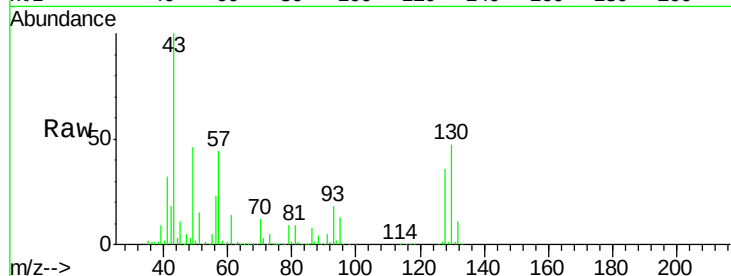
#25  
Ethyl Acetate  
Concen: 9.923 ppbv  
RT: 5.68 min Scan# 899  
Delta R.T. -0.00 min  
Lab File: VL035908.D  
Acq: 12 Nov 2020 9:37

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 45      | 10.5  | 8.5   | 12.7  |
| 61      | 13.0  | 10.7  | 16.1  |
| 70      | 10.3  | 8.6   | 12.8  |

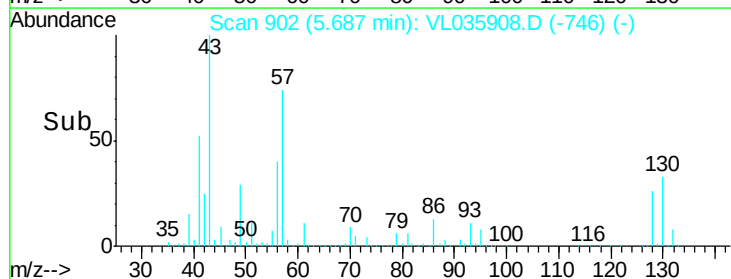
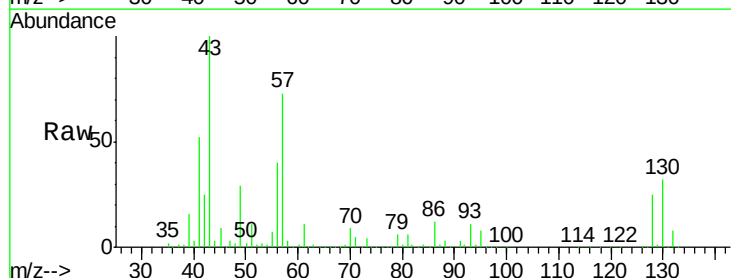
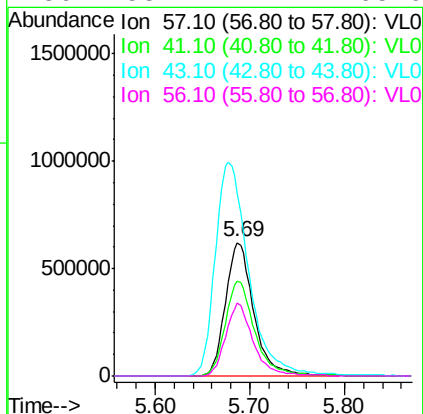
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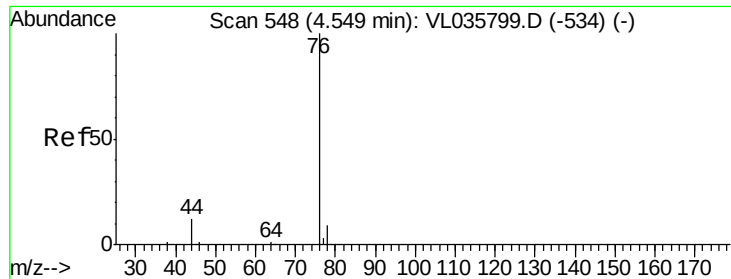
MMDadoda  
11/16/2020 2:27:54 PM



#26  
Hexane  
Concen: 9.582 ppbv  
RT: 5.69 min Scan# 902  
Delta R.T. -0.00 min  
Lab File: VL035908.D  
Acq: 12 Nov 2020 9:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 75.1  | 58.9  | 88.3  |
| 43      | 189.1 | 150.2 | 225.2 |
| 56      | 53.4  | 42.4  | 63.6  |





#27

Carbon Disulfide

Concen: 9.851 ppbv

RT: 4.55 min Scan# 547

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1988326

Ion Ratio Lower Upper

76 100

44 12.5 9.9 14.9

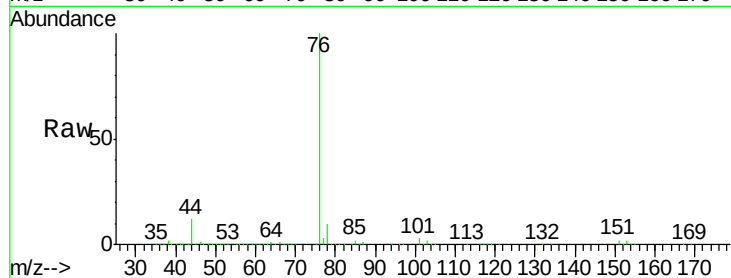
78 9.9 8.1 12.1

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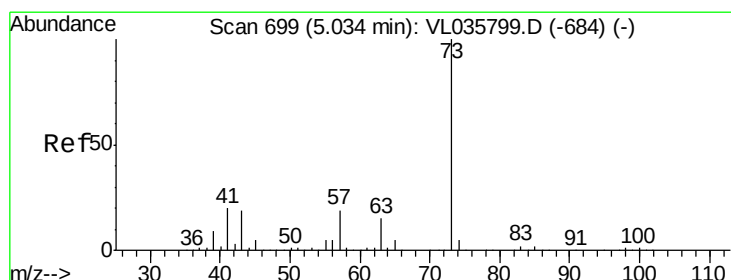
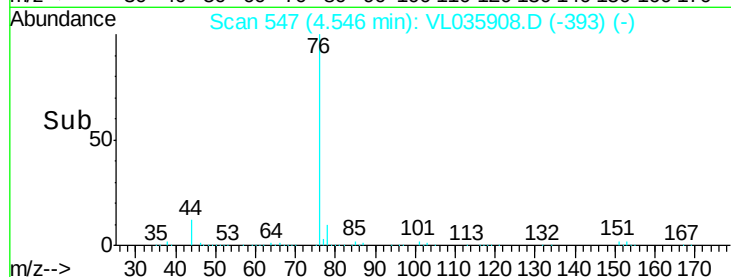
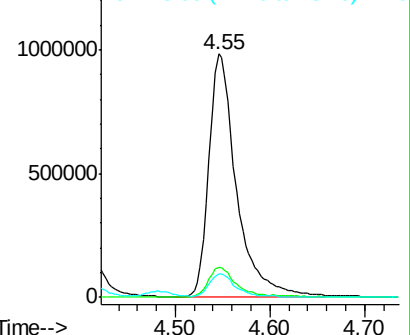
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Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.170 ppbv

RT: 5.03 min Scan# 698

Delta R.T. -0.00 min

Lab File: VL035908.D

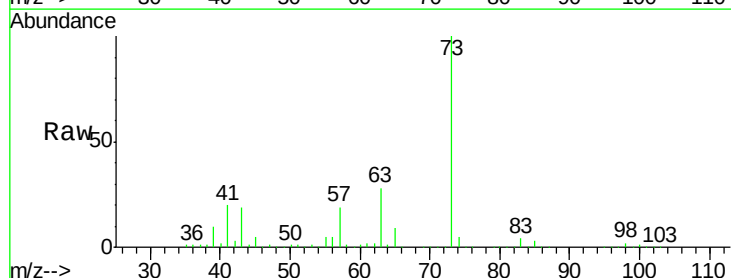
Acq: 12 Nov 2020 9:37

Tgt Ion: 73 Resp: 2218202

Ion Ratio Lower Upper

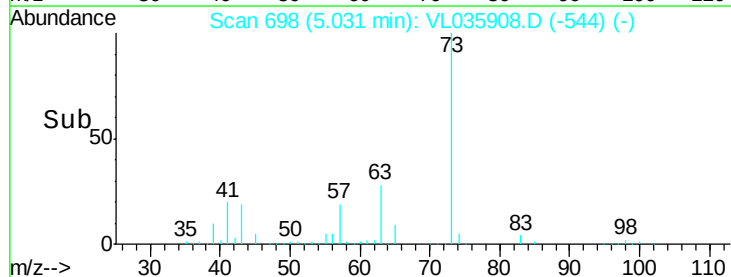
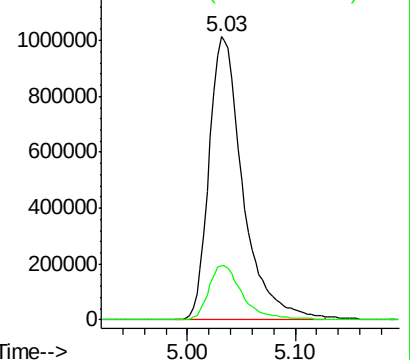
73 100

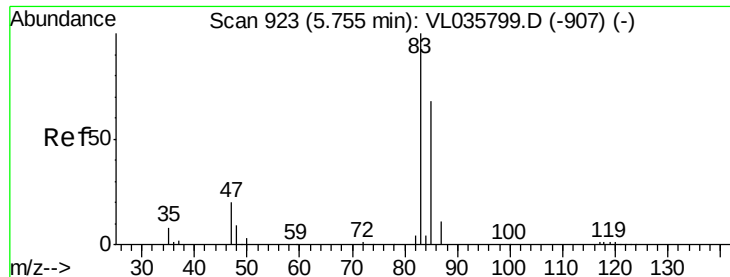
57 19.5 15.4 23.2



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





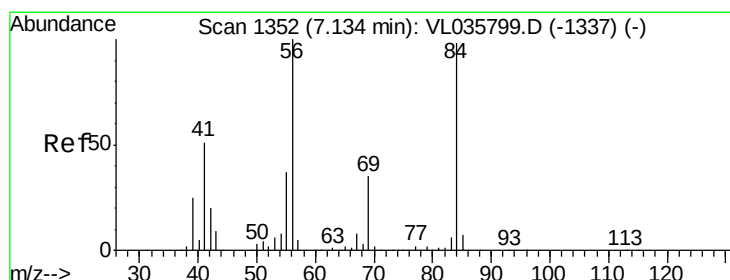
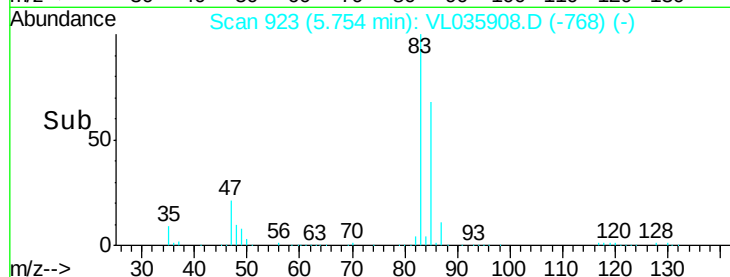
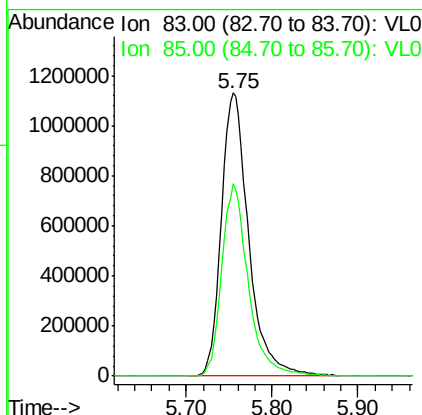
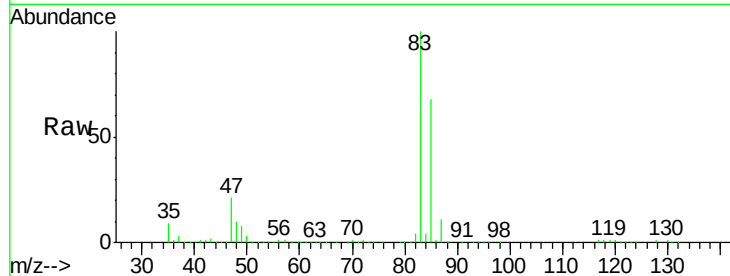
#29  
Chloroform  
Concen: 9.461 ppbv  
RT: 5.75 min Scan# 923  
Delta R.T. -0.00 min  
Lab File: VL035908.D  
Acq: 12 Nov 2020 9:37

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 83 Resp: 2505052  
Ion Ratio Lower Upper  
83 100  
85 67.8 54.6 81.8

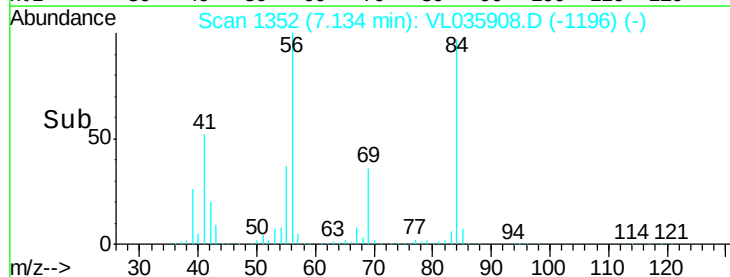
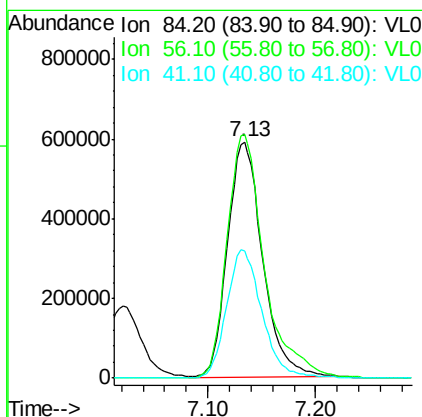
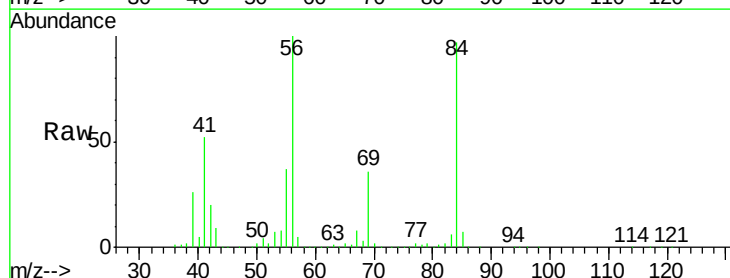
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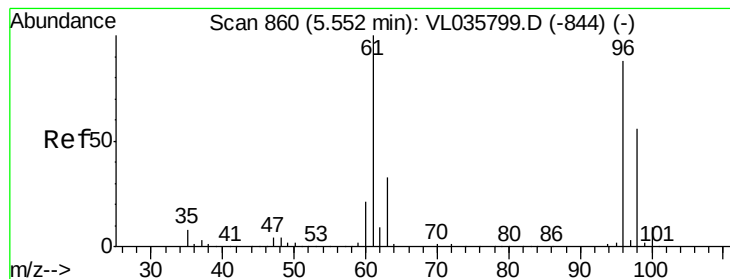
MMDadoda  
11/16/2020 2:27:54 PM



#30  
Cyclohexane  
Concen: 9.130 ppbv  
RT: 7.13 min Scan# 1352  
Delta R.T. -0.00 min  
Lab File: VL035908.D  
Acq: 12 Nov 2020 9:37

Tgt Ion: 84 Resp: 1339439  
Ion Ratio Lower Upper  
84 100  
56 110.2 86.4 129.6  
41 55.0 42.1 63.1





#31

cis-1,2-Dichloroethene

Concen: 9.692 ppbv

RT: 5.55 min Scan# 860

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 61 Resp: 1343124

Ion Ratio Lower Upper

61 100

96 82.5 70.3 105.5

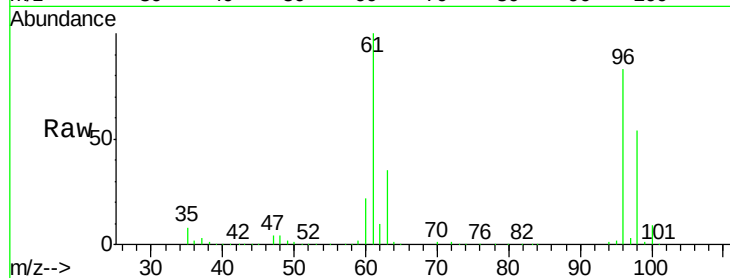
98 54.4 45.0 67.6

Manual Integrations

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MMDadoda

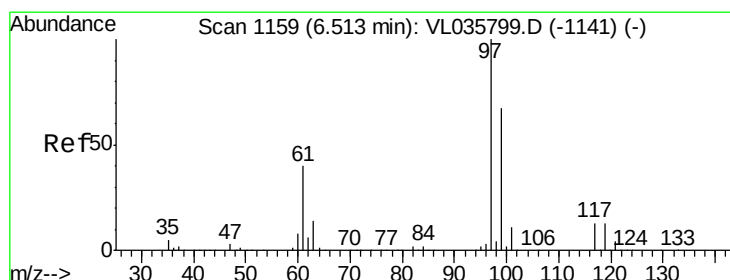
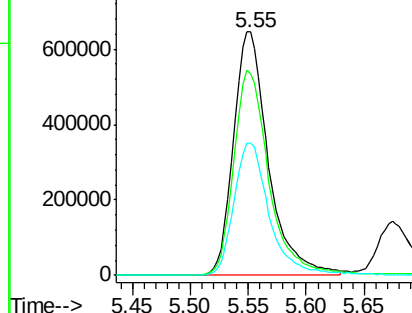
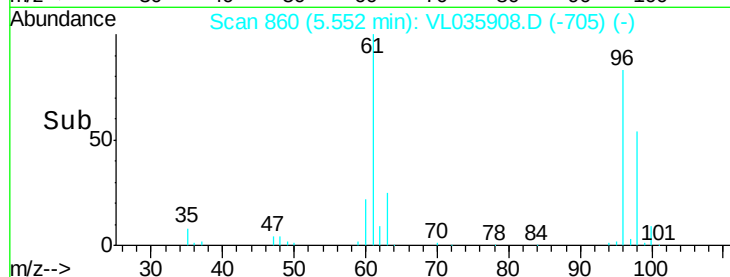
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Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 8.891 ppbv

RT: 6.52 min Scan# 1160

Delta R.T. 0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

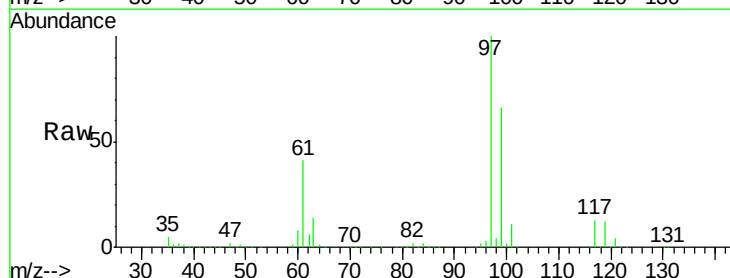
Tgt Ion: 97 Resp: 2456540

Ion Ratio Lower Upper

97 100

99 65.3 52.3 78.5

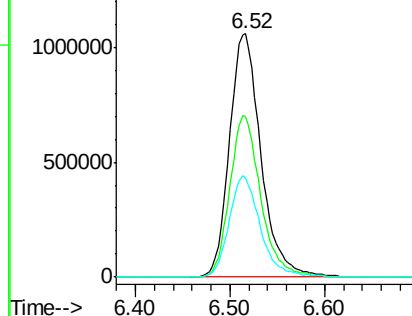
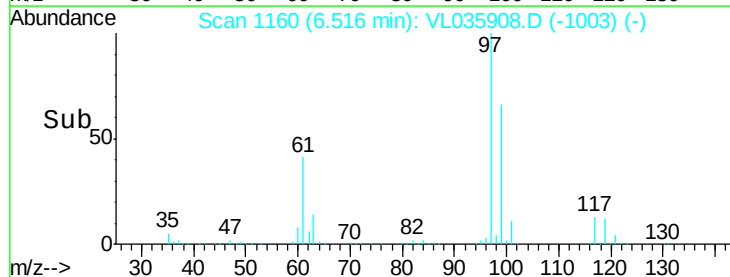
61 41.1 32.0 48.0

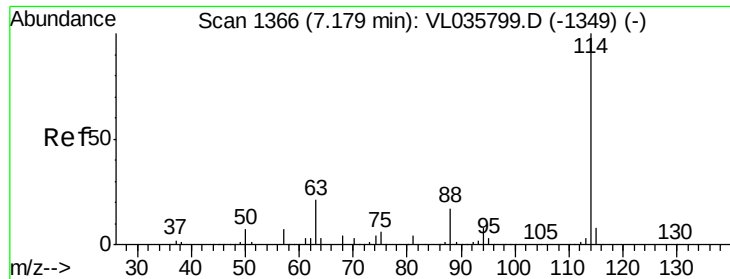


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0





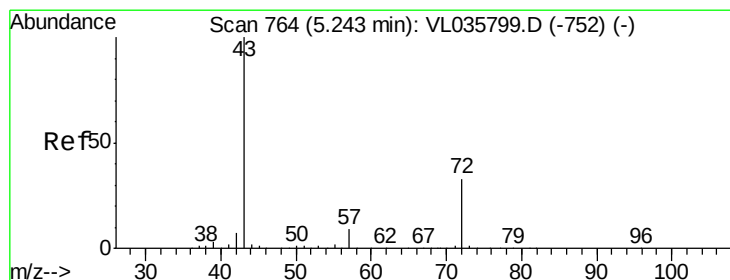
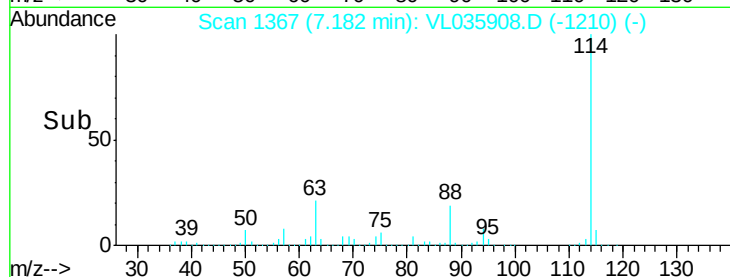
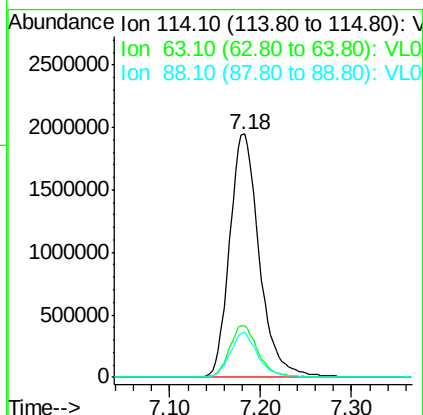
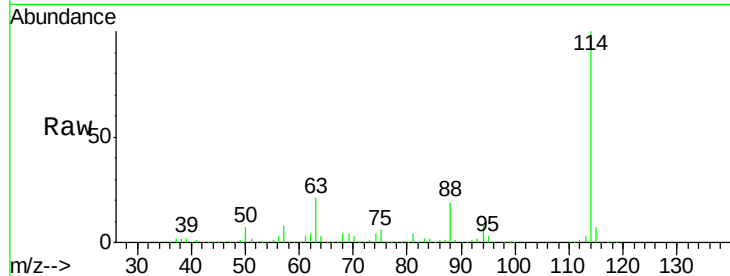
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.18 min Scan# 1367  
 Delta R.T. 0.00 min  
 Lab File: VL035908.D  
 Acq: 12 Nov 2020 9:37

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tot Ion:114 Resp: 4410820  
 Ion Ratio Lower Upper  
 114 100  
 63 20.8 16.1 24.1  
 88 17.4 13.7 20.5

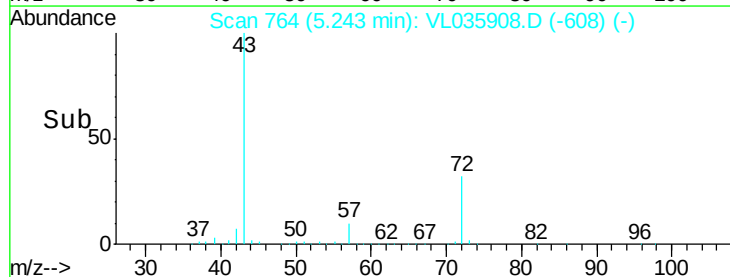
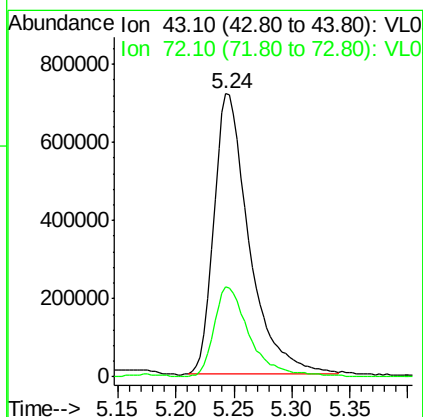
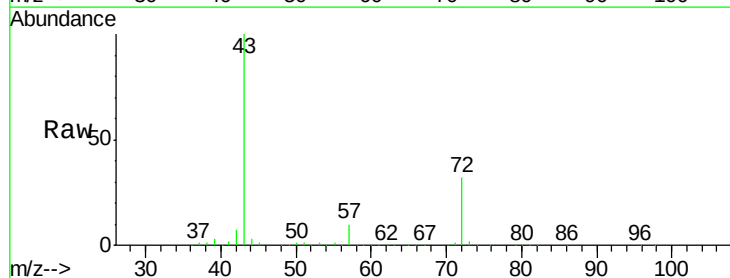
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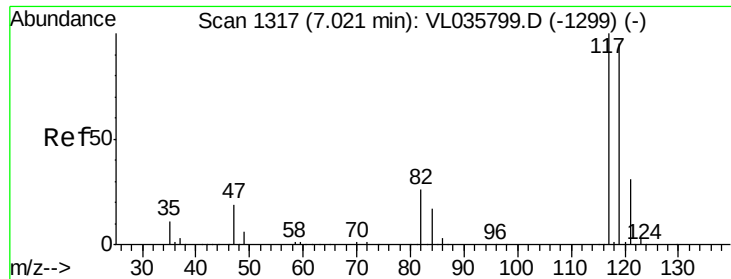
MMDadoda  
 11/16/2020 2:27:54 PM



#34  
 2-Butanone  
 Concen: 10.658 ppbv  
 RT: 5.24 min Scan# 764  
 Delta R.T. -0.00 min  
 Lab File: VL035908.D  
 Acq: 12 Nov 2020 9:37

Tgt Ion: 43 Resp: 1525685  
 Ion Ratio Lower Upper  
 43 100  
 72 32.9 26.5 39.7





#35

Carbon Tetrachloride

Concen: 10.301 ppbv

RT: 7.02 min Scan# 1318

Delta R.T. 0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 2427738

Ion Ratio Lower Upper

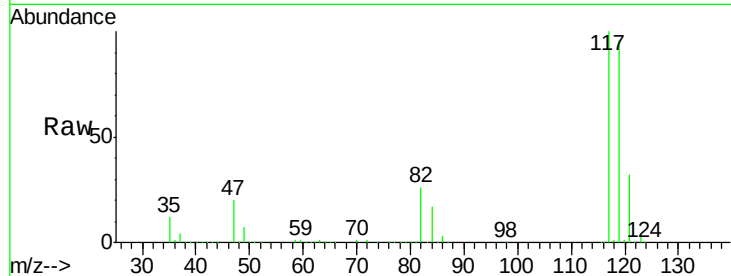
117 100

119 95.9 75.6 113.4

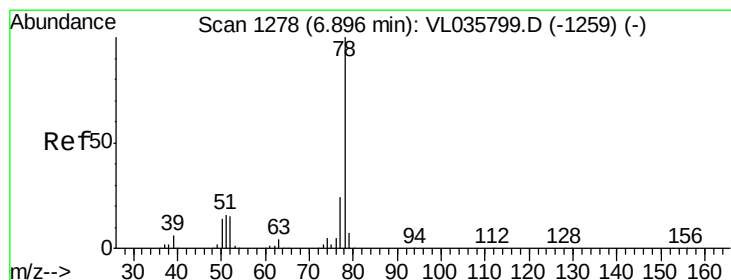
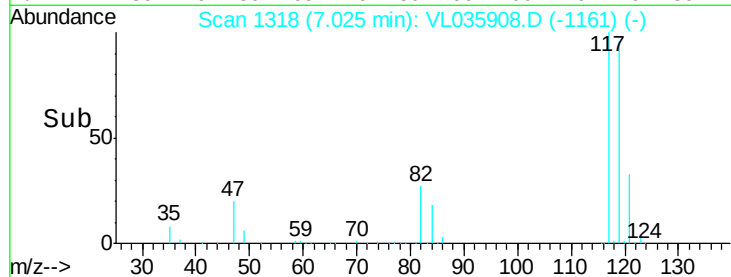
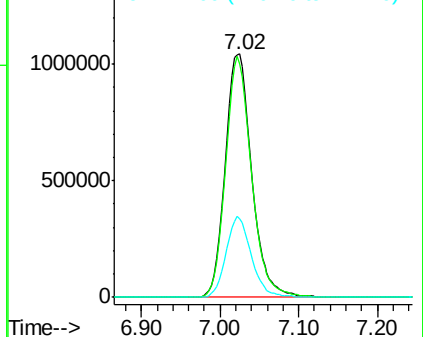
121 32.2 25.1 37.7

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Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V  
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.739 ppbv

RT: 6.90 min Scan# 1278

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

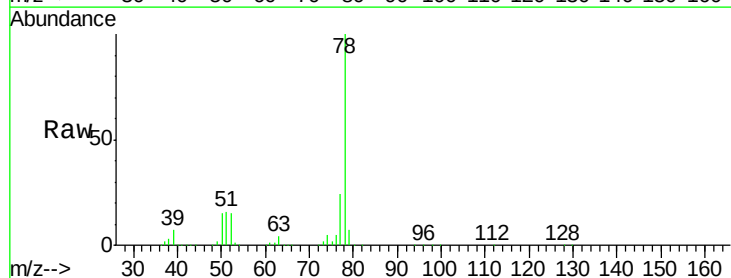
Tgt Ion: 78 Resp: 3193728

Ion Ratio Lower Upper

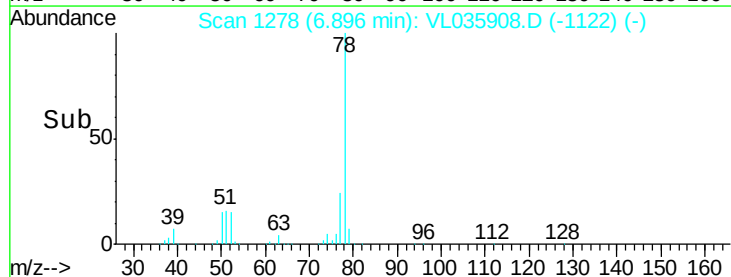
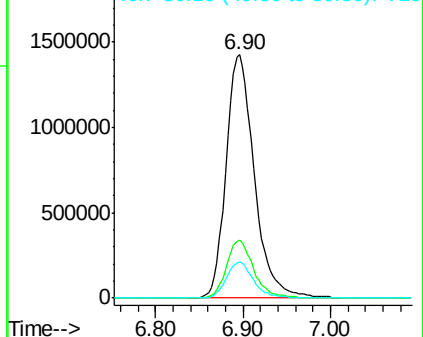
78 100

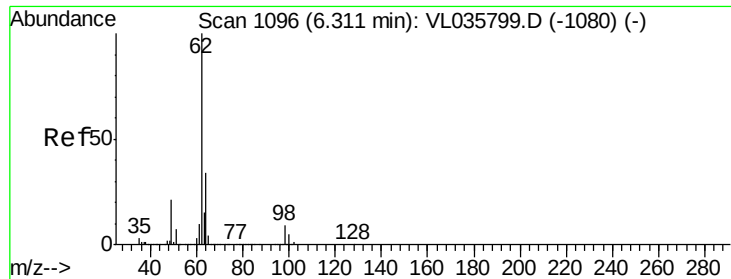
77 23.9 19.3 28.9

50 14.6 11.4 17.2



Abundance Ion 78.10 (77.80 to 78.80): VL0  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 50.10 (49.80 to 50.80): VL0





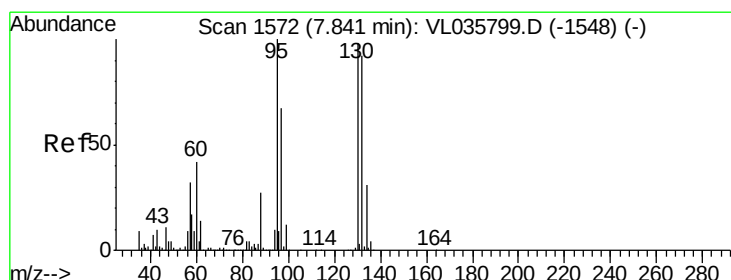
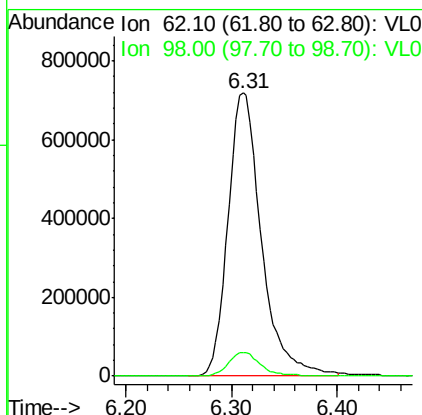
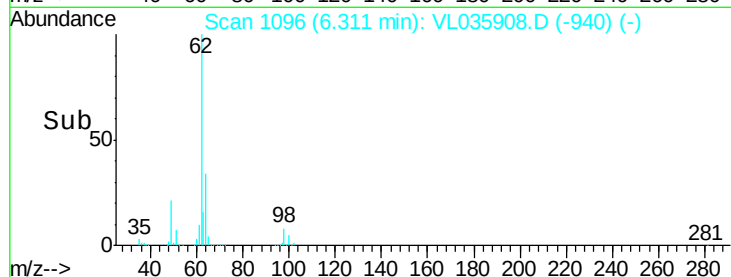
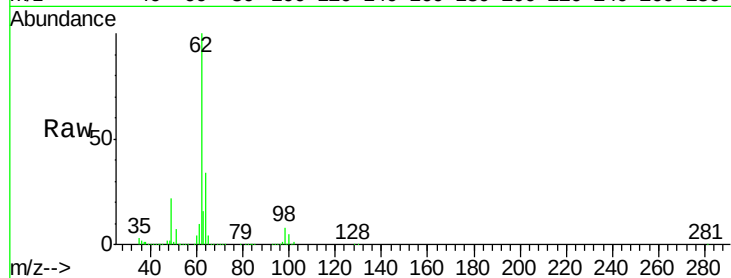
#37  
 1,2-Dichloroethane  
 Concen: 10.659 ppbv  
 RT: 6.31 min Scan# 1096  
 Delta R.T. -0.00 min  
 Lab File: VL035908.D  
 Acq: 12 Nov 2020 9:37

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 98      | 8.4   | 6.9   | 10.3  |

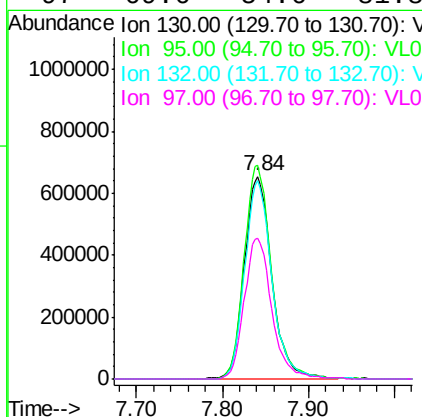
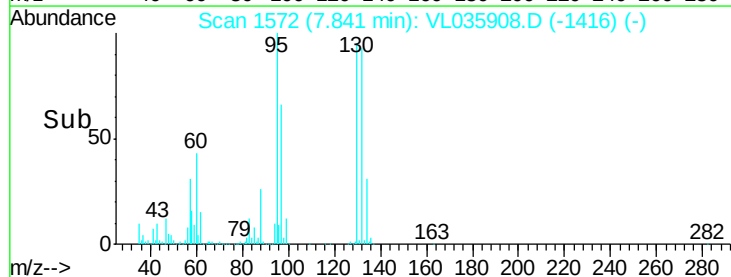
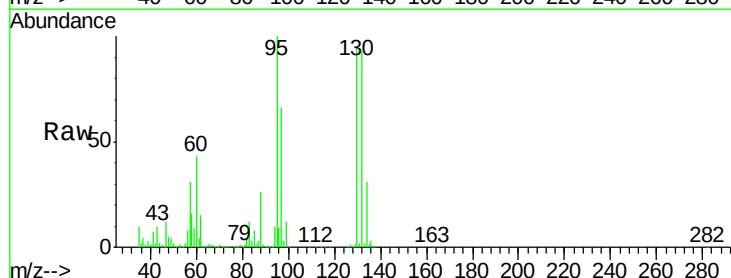
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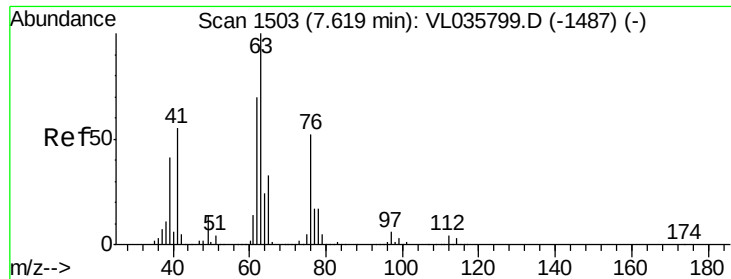
MMDadoda  
 11/16/2020 2:27:54 PM



#38  
 Trichloroethene  
 Concen: 9.114 ppbv  
 RT: 7.84 min Scan# 1572  
 Delta R.T. -0.00 min  
 Lab File: VL035908.D  
 Acq: 12 Nov 2020 9:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 105.4 | 81.6  | 122.4 |
| 132     | 97.9  | 75.1  | 112.7 |
| 97      | 69.6  | 54.6  | 81.8  |





#39

1,2-Dichloropropane

Concen: 10.112 ppbv

RT: 7.62 min Scan# 1503

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 63 Resp: 1116362

Ion Ratio Lower Upper

63 100

41 53.1 43.8 65.6

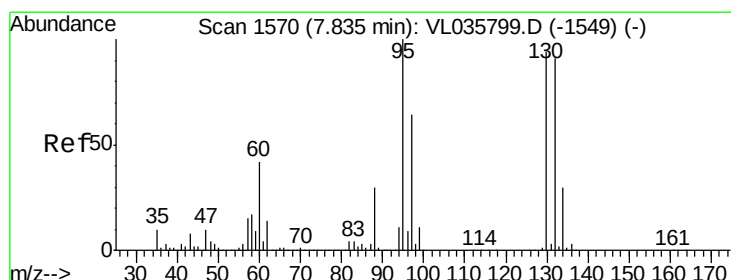
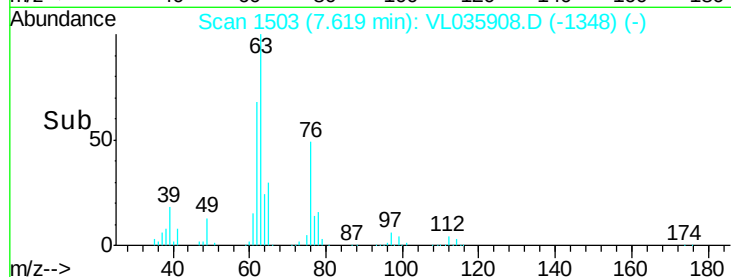
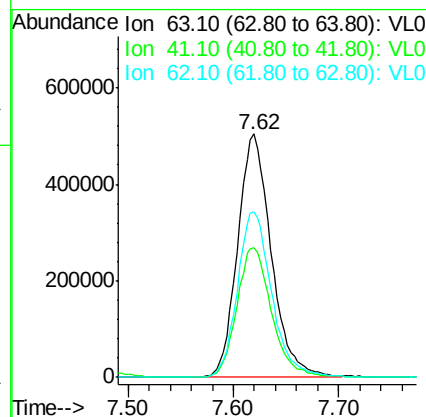
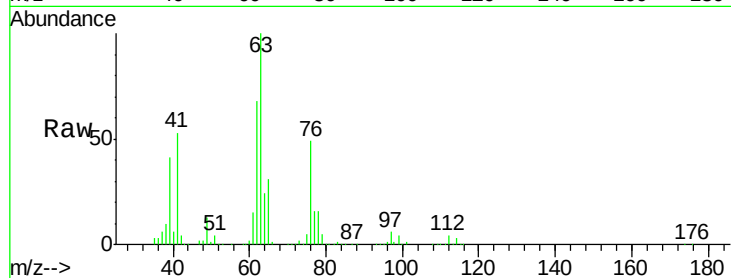
62 68.0 56.2 84.2

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#40

1,4-Dioxane

Concen: 9.532 ppbv

RT: 7.83 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Tgt Ion: 88 Resp: 498756

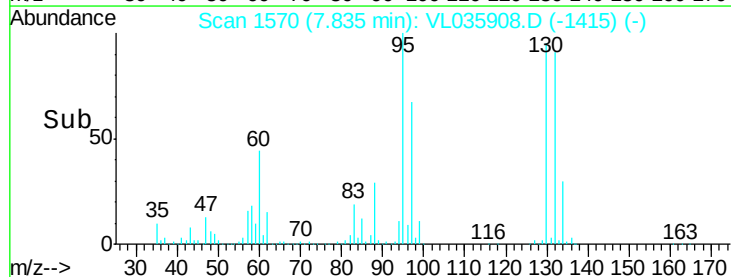
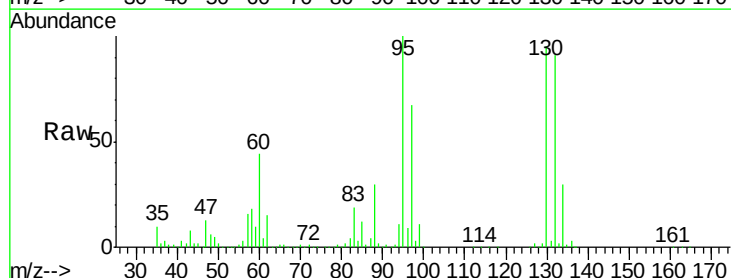
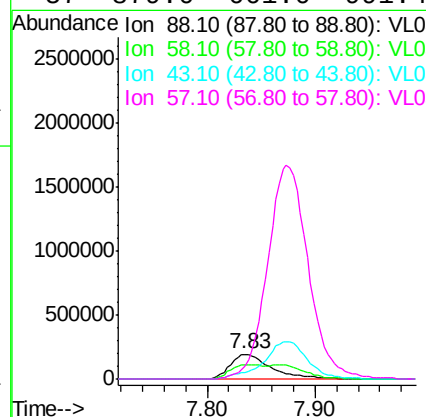
Ion Ratio Lower Upper

88 100

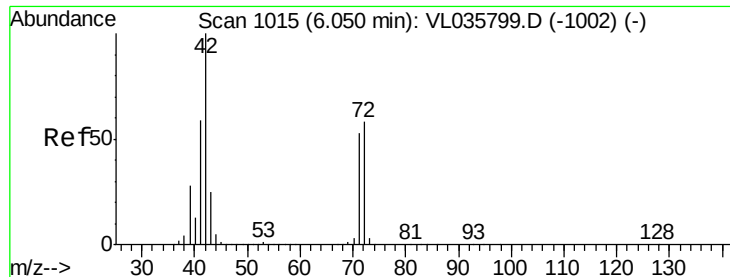
58 100.7 76.2 114.2

43 165.7 123.1 184.7

57 879.0 661.0 991.4







#41

Tetrahydrofuran

Concen: 11.123 ppbv

RT: 6.05 min Scan# 1015

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Instrument :

MSVOA\_L

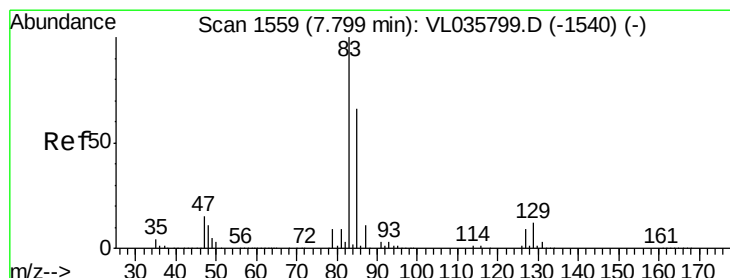
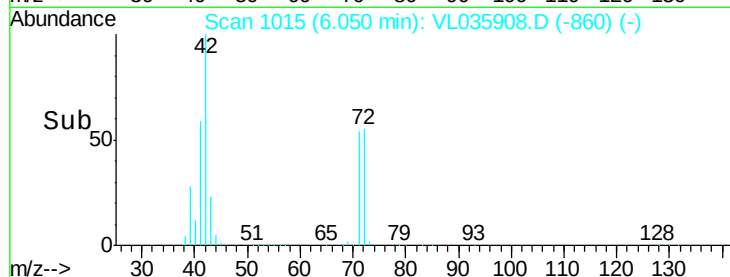
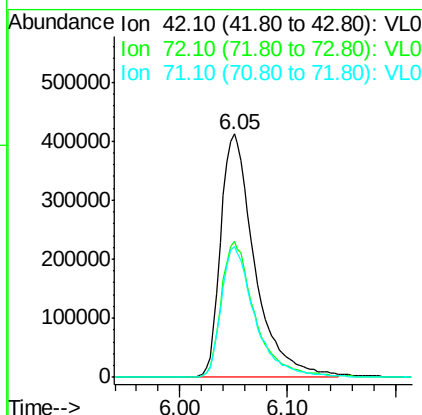
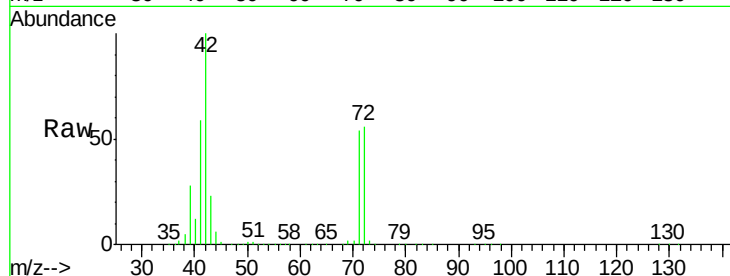
ClientSampleId :

VSTDCCC010

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 42   | Resp: | 904582 |
| Ion Ratio |      | Lower | Upper  |
| 42        | 100  |       |        |
| 72        | 55.6 | 45.4  | 68.0   |
| 71        | 53.4 | 43.4  | 65.2   |

Manual Integrations  
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MMDadoda  
11/16/2020 2:27:54 PM



#42

Bromodichloromethane

Concen: 10.486 ppbv

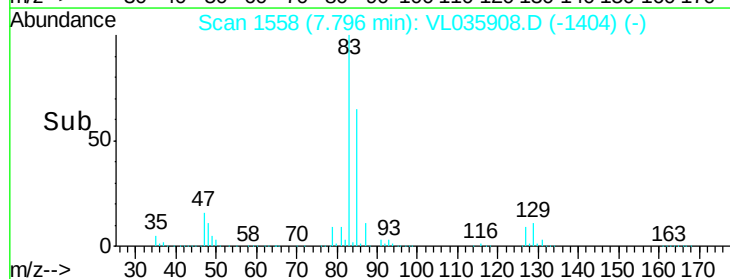
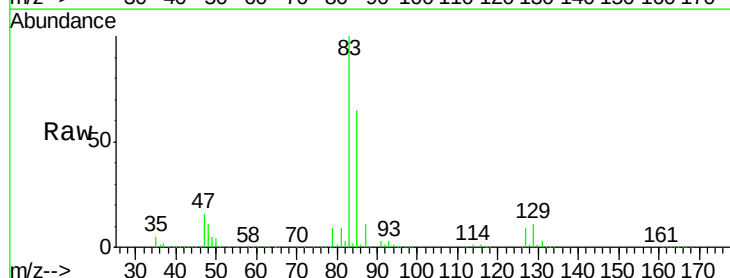
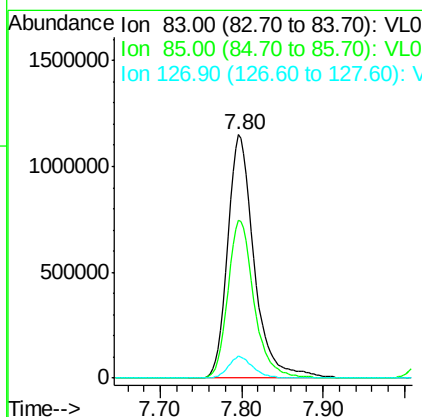
RT: 7.80 min Scan# 1558

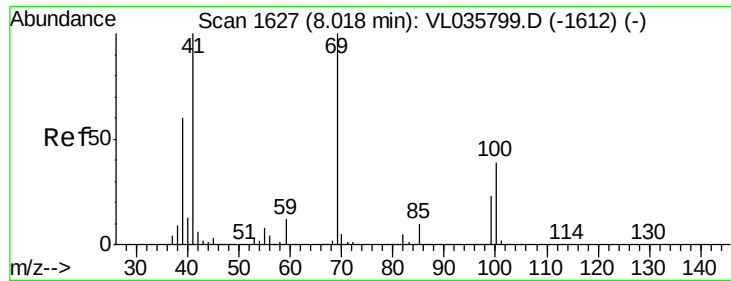
Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

|           |      |       |         |
|-----------|------|-------|---------|
| Tgt Ion:  | 83   | Resp: | 2628525 |
| Ion Ratio |      | Lower | Upper   |
| 83        | 100  |       |         |
| 85        | 64.9 | 53.1  | 79.7    |
| 127       | 8.9  | 7.3   | 10.9    |





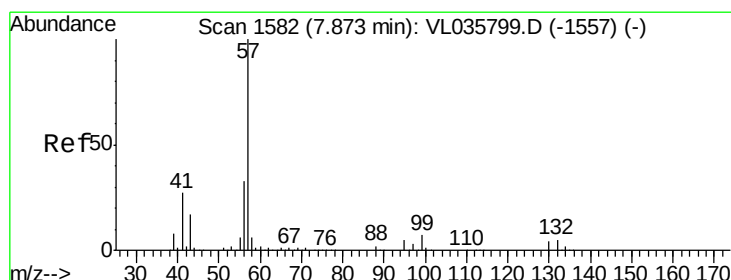
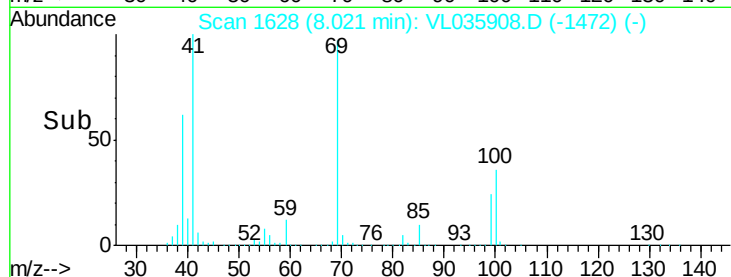
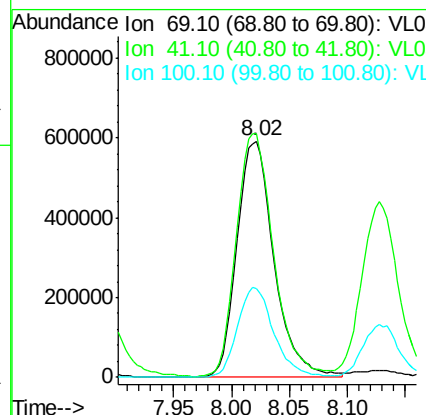
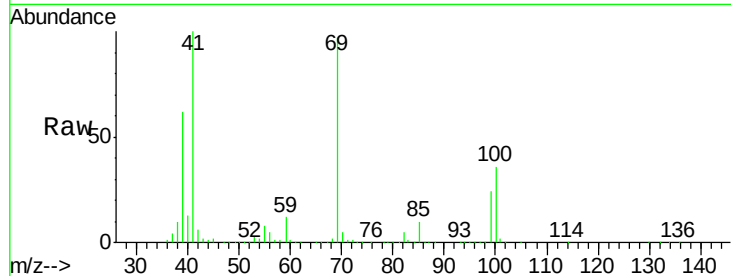
#43  
Methyl Methacrylate  
Concen: 10.465 ppbv  
RT: 8.02 min Scan# 1628  
Delta R.T. 0.00 min  
Lab File: VL035908.D  
Acq: 12 Nov 2020 9:37

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 69 Resp: 1308917  
Ion Ratio Lower Upper  
69 100  
41 104.0 81.1 121.7  
100 37.3 31.0 46.4

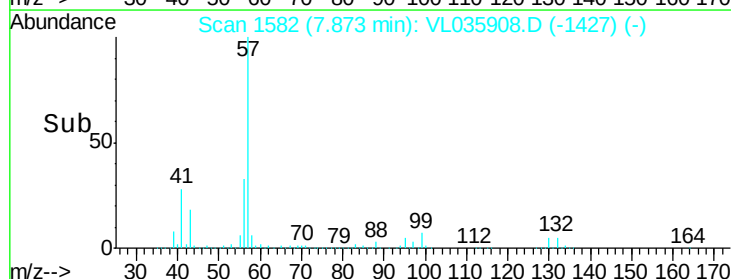
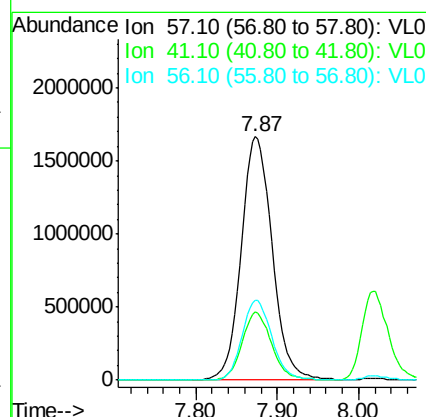
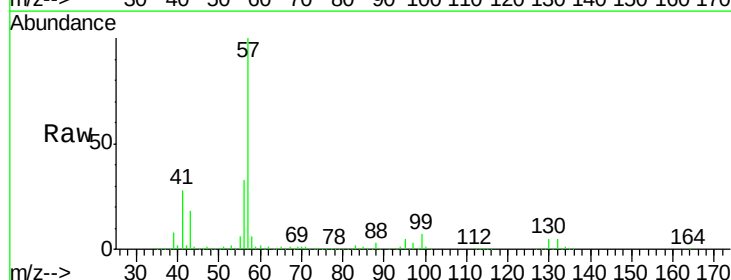
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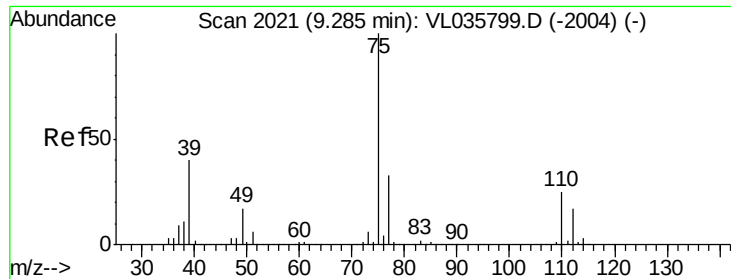
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#44  
2,2,4-Trimethylpentane  
Concen: 10.100 ppbv  
RT: 7.87 min Scan# 1582  
Delta R.T. -0.00 min  
Lab File: VL035908.D  
Acq: 12 Nov 2020 9:37

Tgt Ion: 57 Resp: 4382811  
Ion Ratio Lower Upper  
57 100  
41 26.6 21.0 31.4  
56 31.7 25.4 38.0





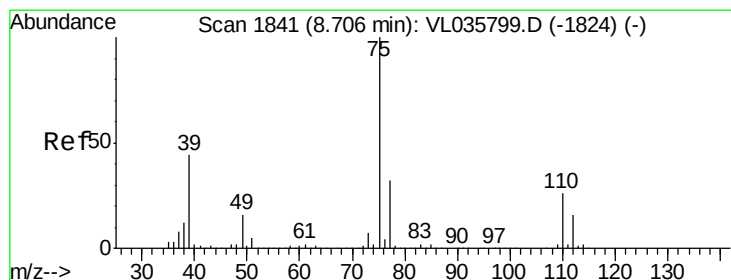
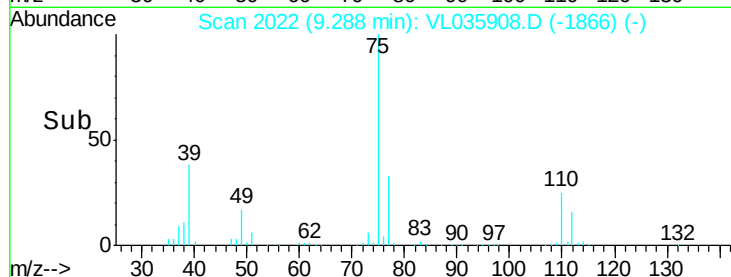
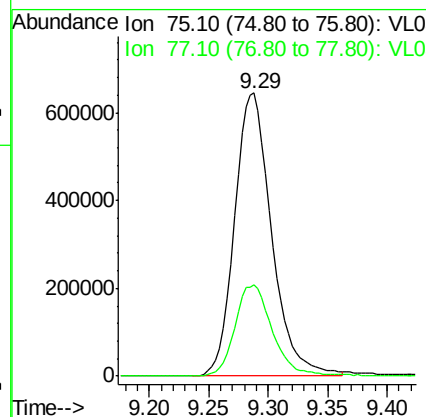
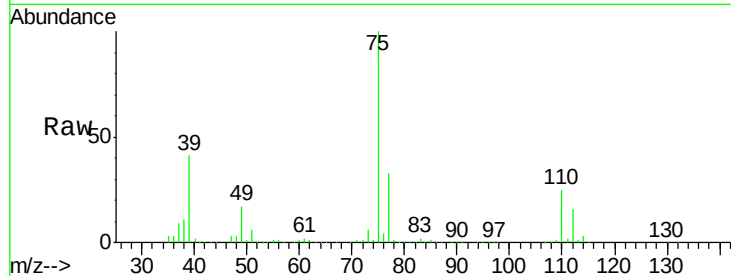
#45  
t-1,3-Dichloropropene  
Concen: 10.461 ppbv  
RT: 9.29 min Scan# 2022  
Delta R.T. 0.00 min  
Lab File: VL035908.D  
Acq: 12 Nov 2020 9:37

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 75 Resp: 1387037  
Ion Ratio Lower Upper  
75 100  
77 32.5 26.4 39.6

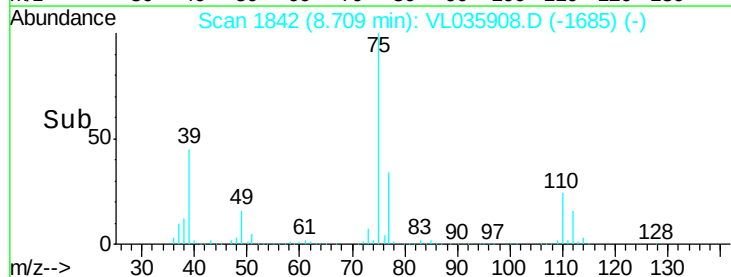
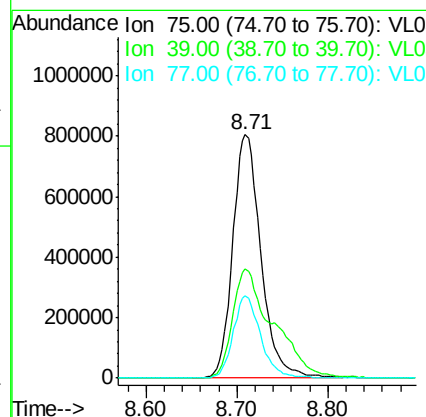
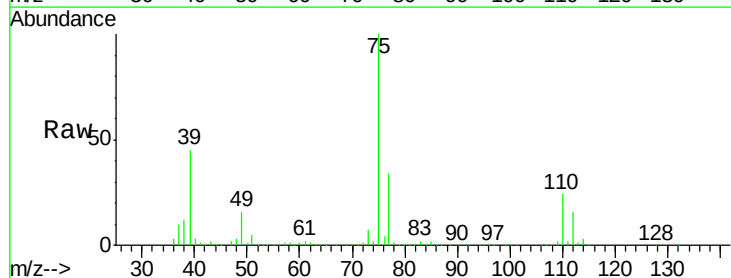
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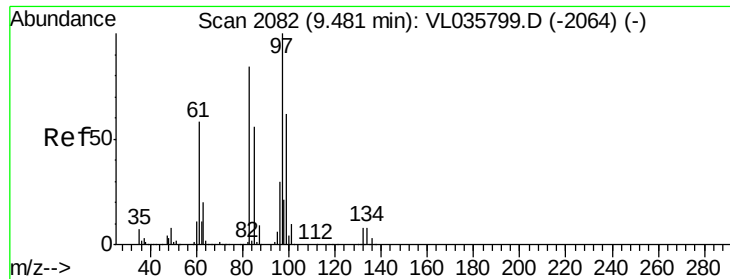
MMDadoda  
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#46  
cis-1,3-Dichloropropene  
Concen: 10.357 ppbv  
RT: 8.71 min Scan# 1842  
Delta R.T. 0.00 min  
Lab File: VL035908.D  
Acq: 12 Nov 2020 9:37

Tgt Ion: 75 Resp: 1739177  
Ion Ratio Lower Upper  
75 100  
39 45.0 35.1 52.7  
77 33.7 25.7 38.5





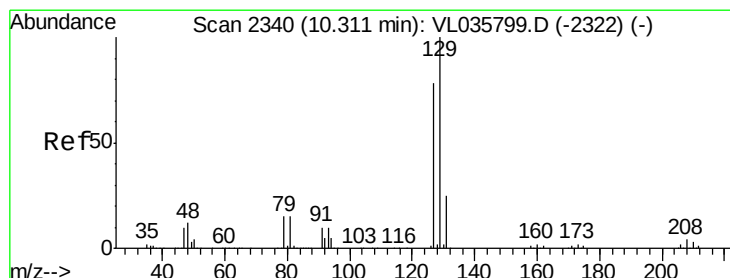
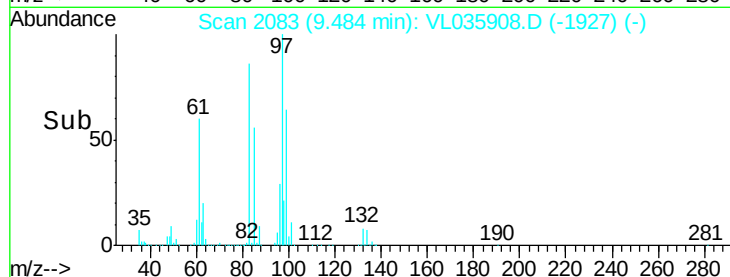
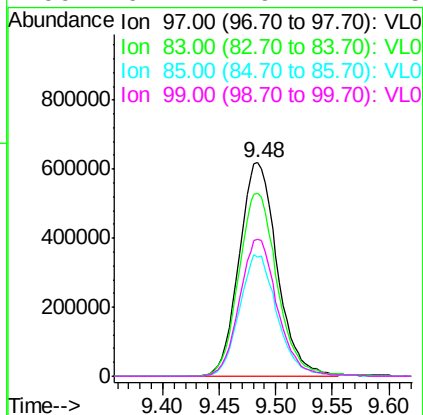
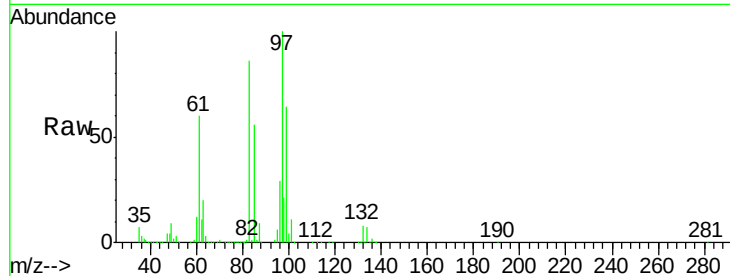
#47  
 1,1,2-Trichloroethane  
 Concen: 9.649 ppbv  
 RT: 9.48 min Scan# 2083  
 Delta R.T. 0.00 min  
 Lab File: VL035908.D  
 Acq: 12 Nov 2020 9:37

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tot Ion: 97 Resp: 1451560  
 Ion Ratio Lower Upper  
 97 100  
 83 85.6 67.1 100.7  
 85 55.5 44.7 67.1  
 99 64.4 49.7 74.5

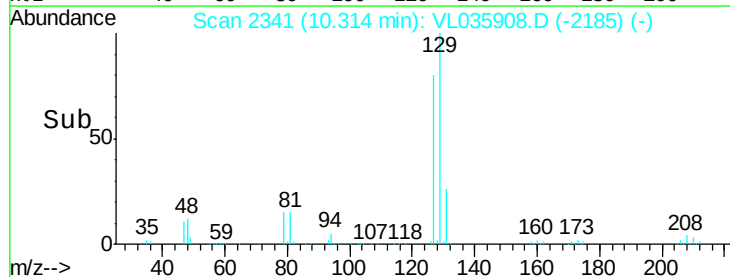
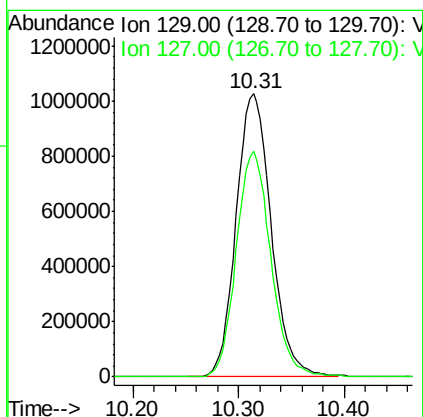
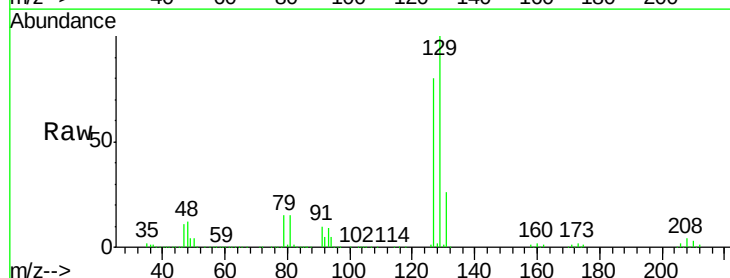
Manual Integrations  
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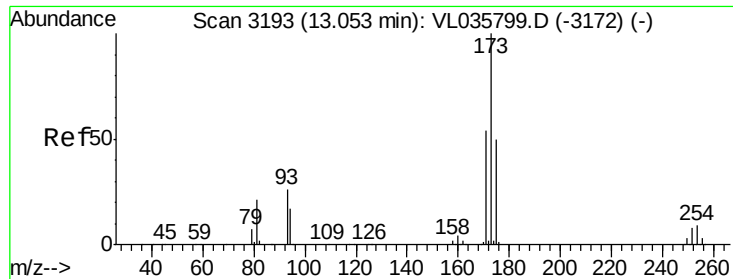
MMDadoda  
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#48  
 Dibromochloromethane  
 Concen: 10.334 ppbv  
 RT: 10.31 min Scan# 2341  
 Delta R.T. 0.00 min  
 Lab File: VL035908.D  
 Acq: 12 Nov 2020 9:37

Tgt Ion: 129 Resp: 2374882  
 Ion Ratio Lower Upper  
 129 100  
 127 79.0 39.2 117.6





#49

Bromoform

Concen: 10.213 ppbv

RT: 13.05 min Scan# 3192

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion:173 Resp: 1980508

Ion Ratio Lower Upper

173 100

175 49.5 40.1 60.1

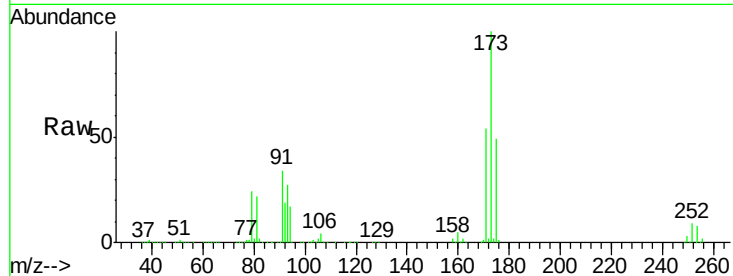
171 53.4 42.6 63.8

Manual Integrations

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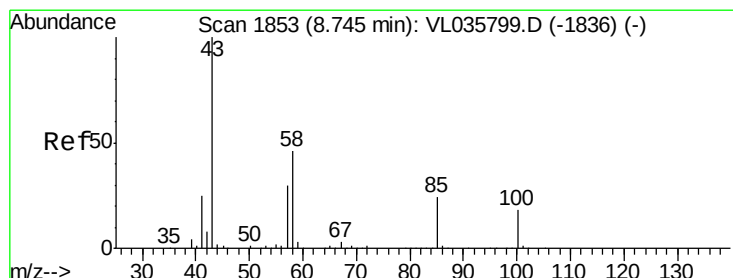
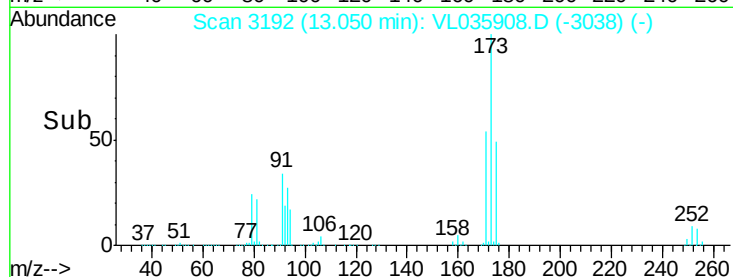
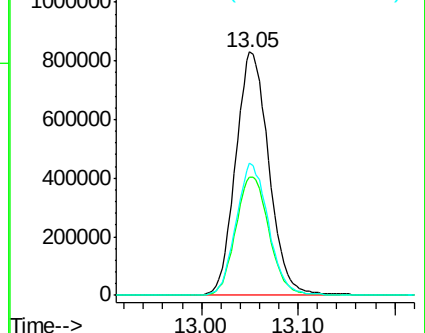
11/16/2020 2:27:54 PM



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.830 ppbv

RT: 8.75 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VL035908.D

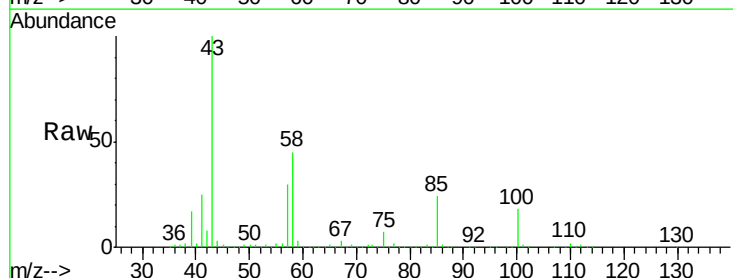
Acq: 12 Nov 2020 9:37

Tgt Ion: 43 Resp: 2370527

Ion Ratio Lower Upper

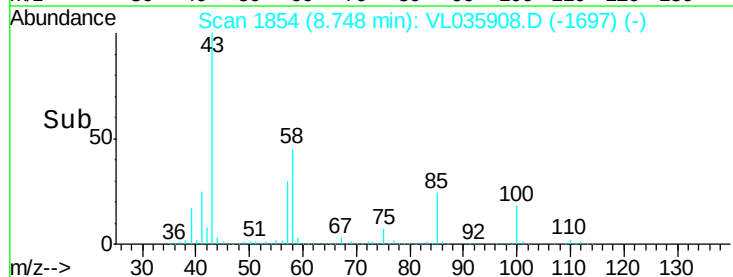
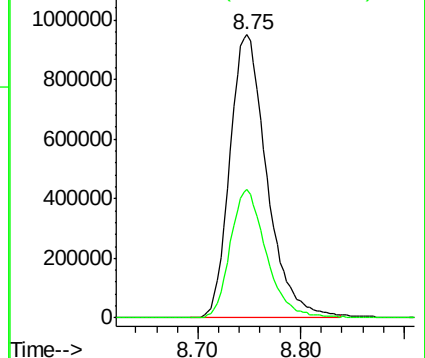
43 100

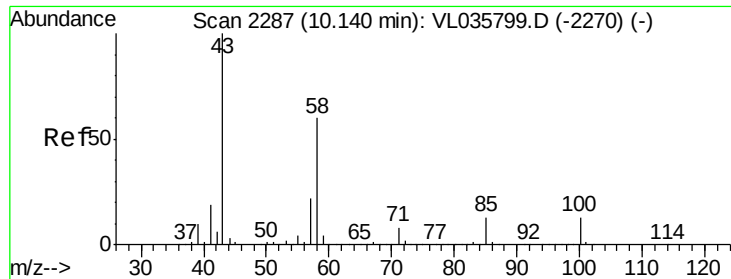
58 44.5 36.0 54.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 10.957 ppbv

RT: 10.14 min Scan# 2287

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1926667

Ion Ratio Lower Upper

43 100

58 59.2 48.3 72.5

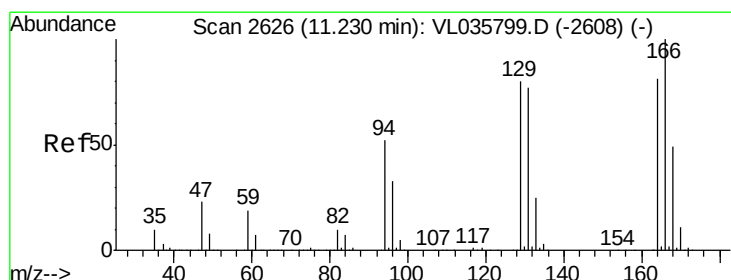
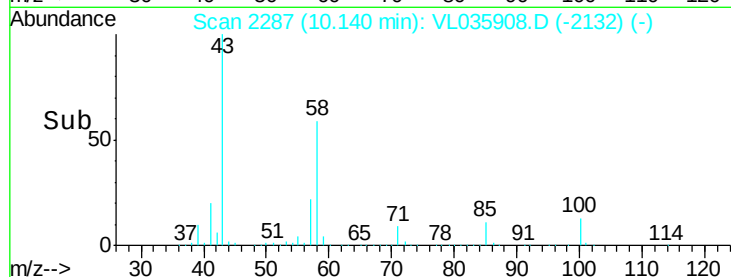
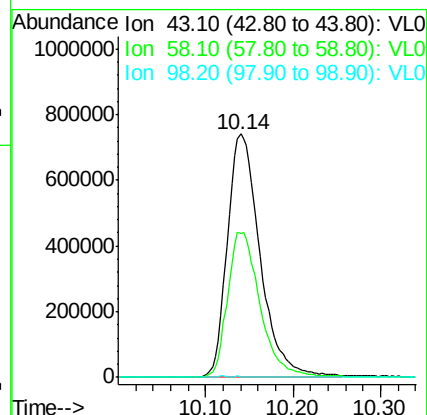
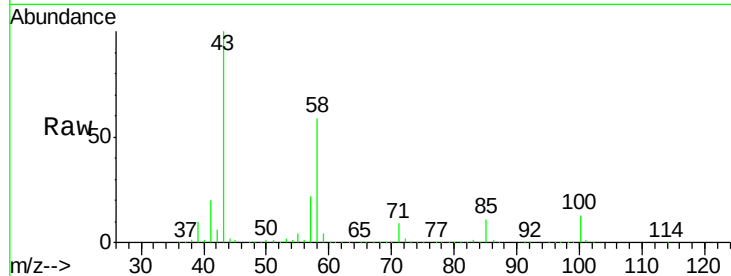
98 0.7 0.6 0.8

Manual Integrations

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11/16/2020 2:27:54 PM



#52

Tetrachloroethene

Concen: 8.714 ppbv

RT: 11.23 min Scan# 2626

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Tgt Ion: 164 Resp: 1353719

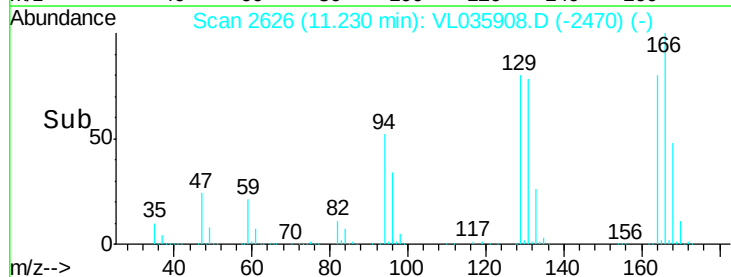
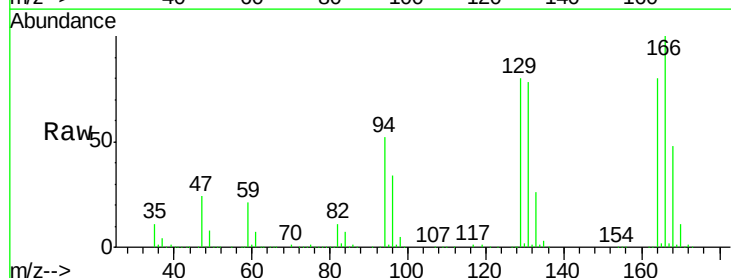
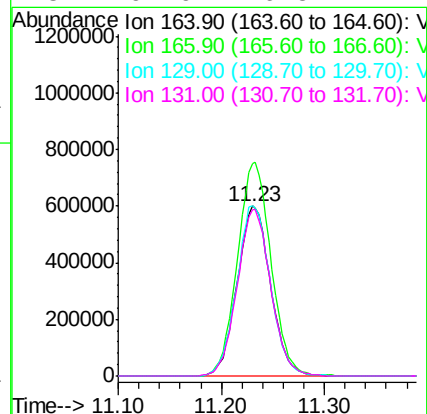
Ion Ratio Lower Upper

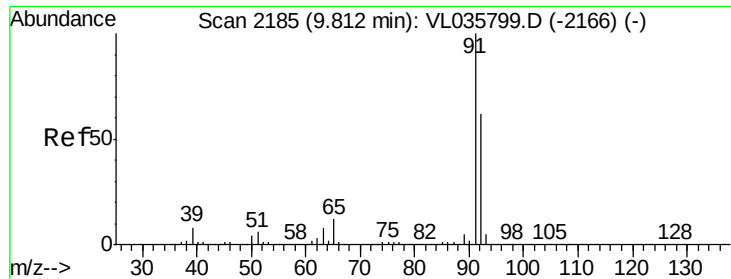
164 100

166 124.9 99.3 148.9

129 100.1 79.3 118.9

131 97.9 76.5 114.7





#53

Toluene

Concen: 9.662 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3823109

Ion Ratio Lower Upper

91 100

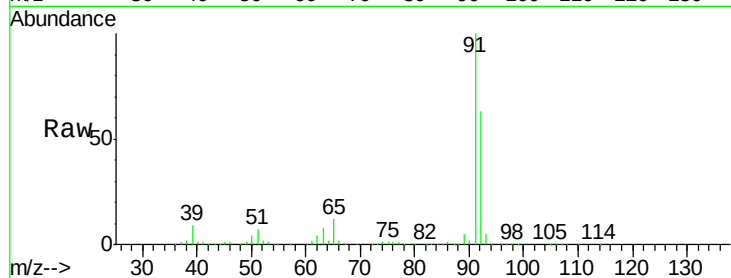
92 62.0 49.8 74.6

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

2000000

1500000

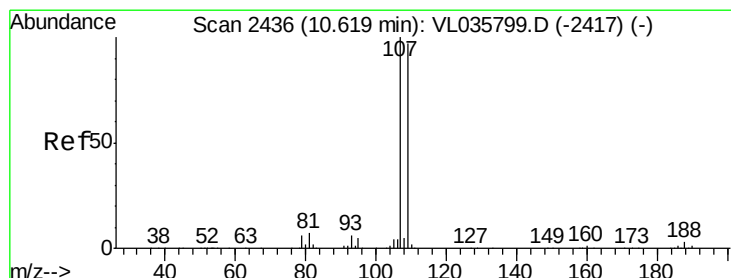
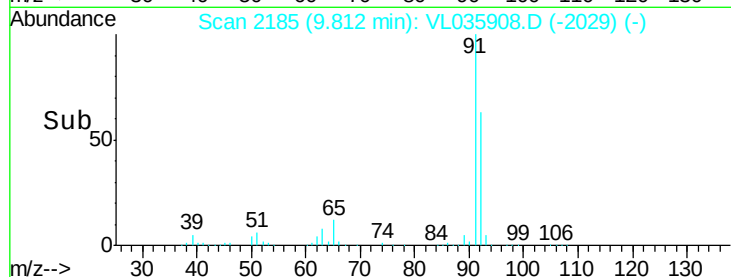
1000000

500000

0

9.70 9.80 9.90

Time-->



#54

1,2-Dibromoethane

Concen: 9.723 ppbv

RT: 10.62 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VL035908.D

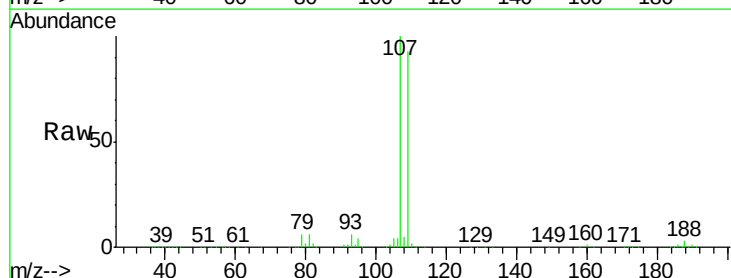
Acq: 12 Nov 2020 9:37

Tgt Ion: 107 Resp: 2224296

Ion Ratio Lower Upper

107 100

109 93.0 77.2 115.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

1000000

800000

600000

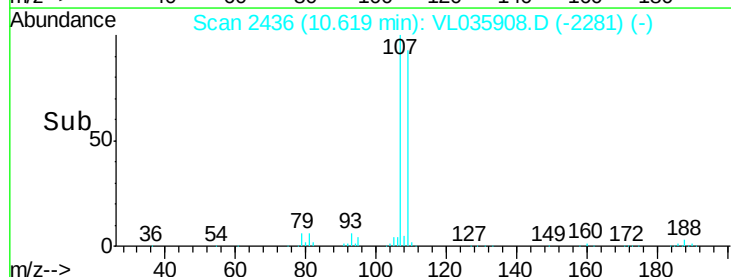
400000

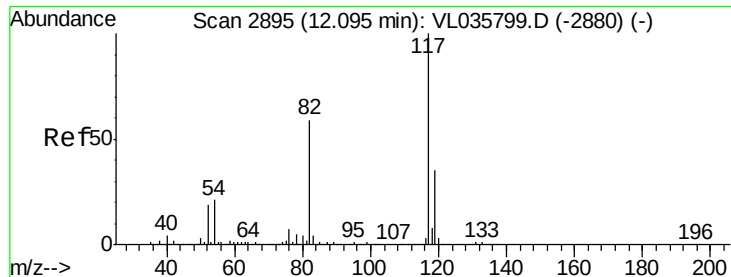
200000

0

10.50 10.60 10.70

Time-->





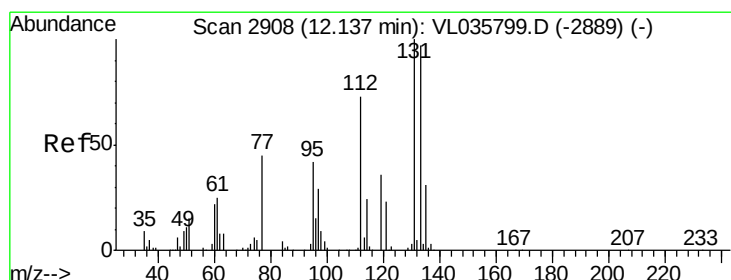
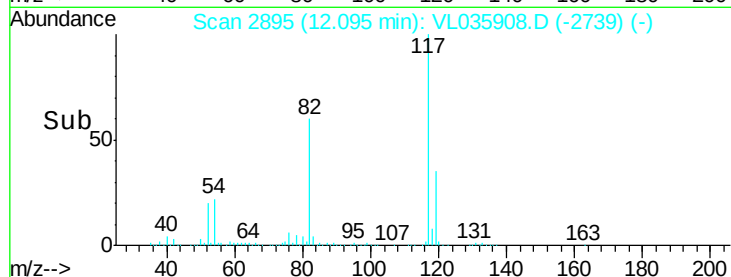
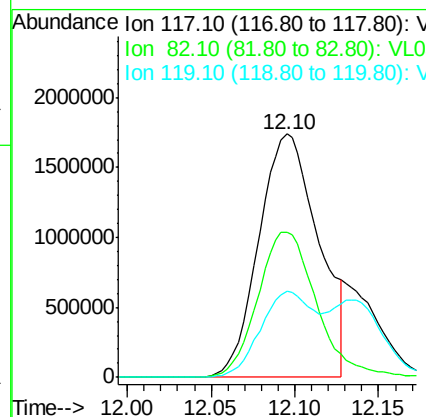
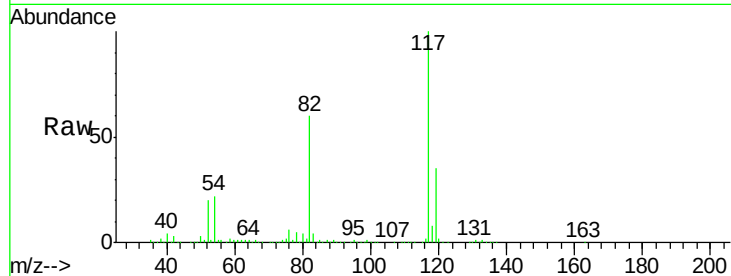
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv m  
RT: 12.10 min Scan# 2895  
Delta R.T. -0.00 min  
Lab File: VL035908.D  
Acq: 12 Nov 2020 9:37

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion:117 Resp: 431531  
Ion Ratio Lower Upper  
117 100  
82 59.2 50.6 76.0  
119 35.1 52.6 78.8#

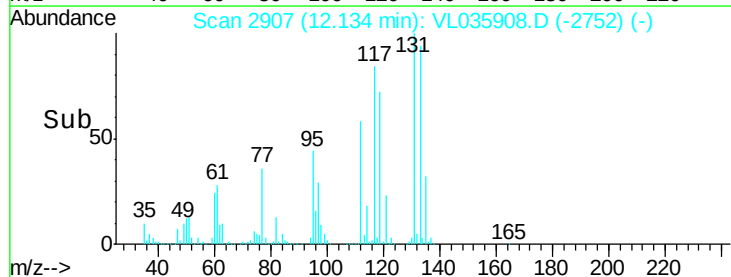
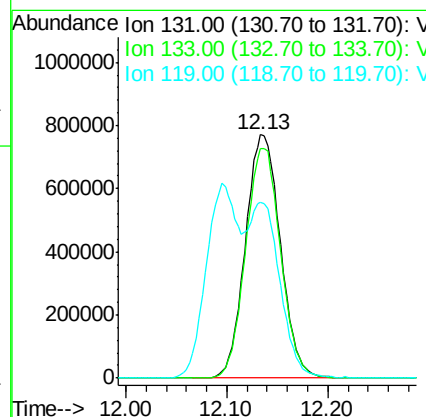
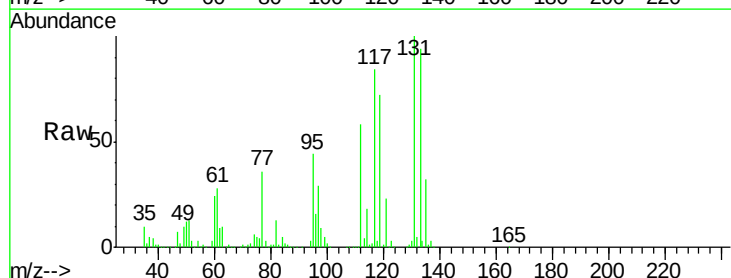
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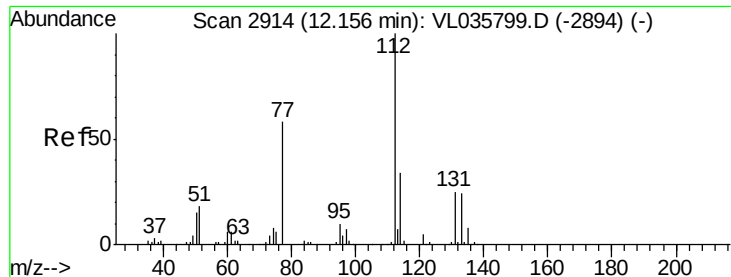


#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.527 ppbv  
RT: 12.13 min Scan# 2907  
Delta R.T. -0.00 min  
Lab File: VL035908.D  
Acq: 12 Nov 2020 9:37

Tgt Ion:131 Resp: 1845237  
Ion Ratio Lower Upper  
131 100  
133 95.1 76.8 115.2  
119 59.6 47.4 71.0







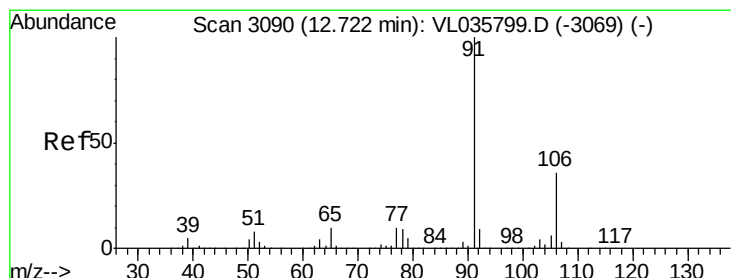
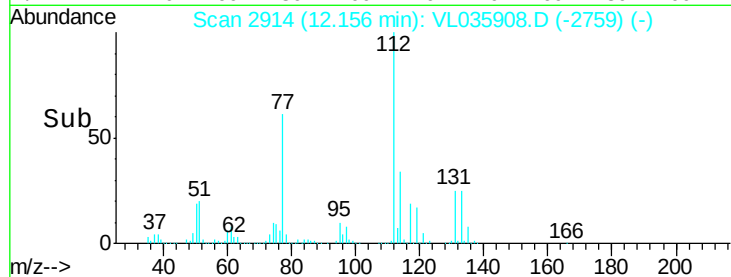
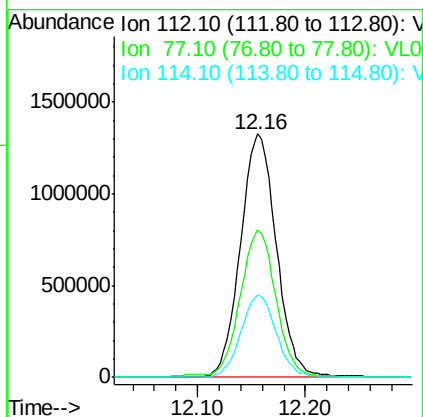
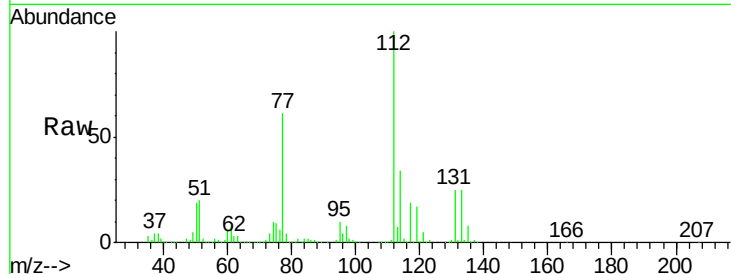
#57  
Chlorobenzene  
Concen: 8.964 ppbv  
RT: 12.16 min Scan# 2914  
Delta R.T. -0.00 min  
Lab File: VL035908.D  
Acq: 12 Nov 2020 9:37

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion:112 Resp: 3075692  
Ion Ratio Lower Upper  
112 100  
77 60.5 47.5 71.3  
114 34.0 30.3 37.1

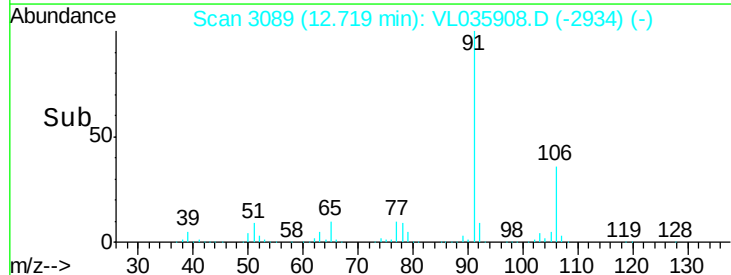
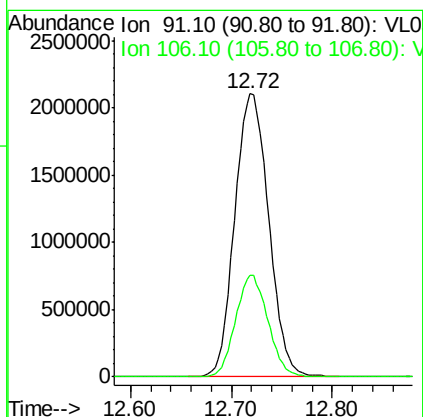
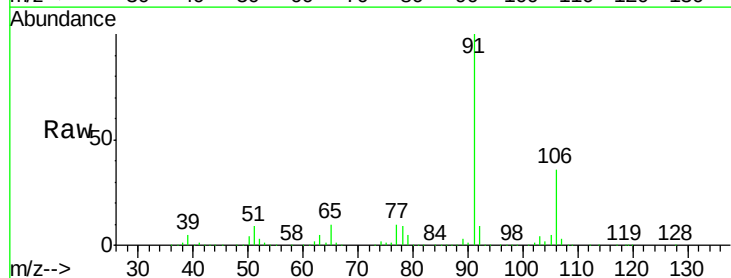
Manual Integrations  
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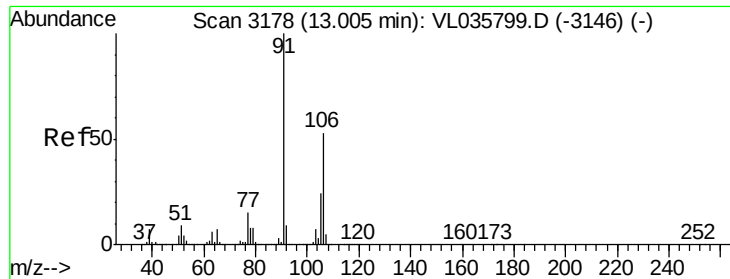
MMDadoda  
11/16/2020 2:27:54 PM



#58  
Ethyl Benzene  
Concen: 9.357 ppbv  
RT: 12.72 min Scan# 3089  
Delta R.T. -0.00 min  
Lab File: VL035908.D  
Acq: 12 Nov 2020 9:37

Tgt Ion: 91 Resp: 4918024  
Ion Ratio Lower Upper  
91 100  
106 35.7 28.6 43.0





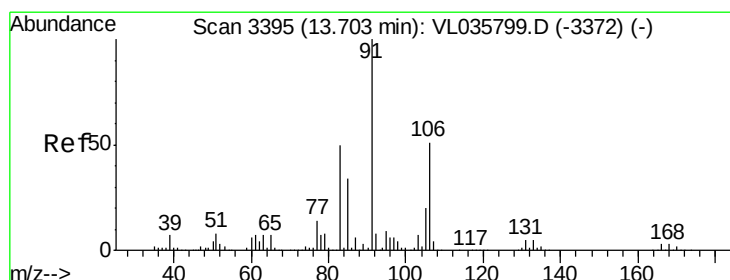
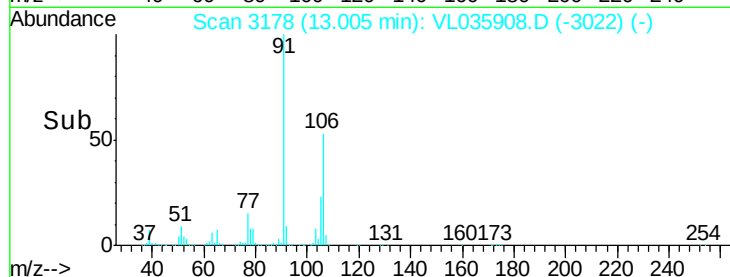
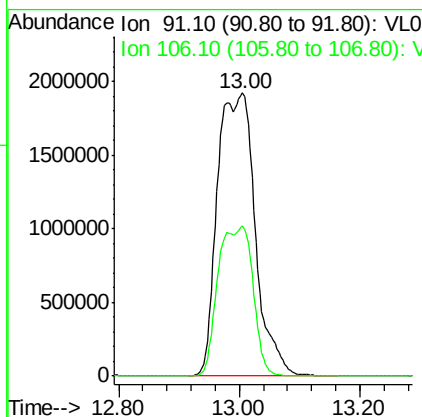
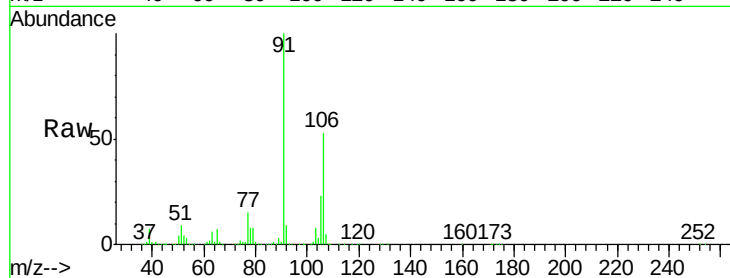
#59  
m/p-Xylene  
Concen: 18.699 ppbv m  
RT: 13.00 min Scan# 3178  
Delta R.T. -0.00 min  
Lab File: VL035908.D  
Acq: 12 Nov 2020 9:37

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 91 Resp: 8315274  
Ion Ratio Lower Upper  
91 100  
106 48.9 39.5 59.3

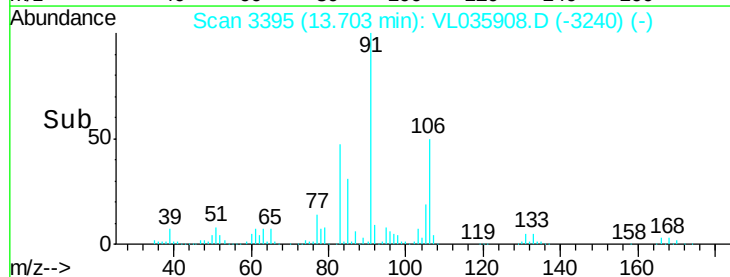
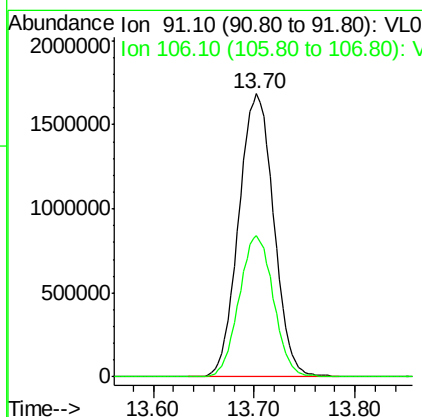
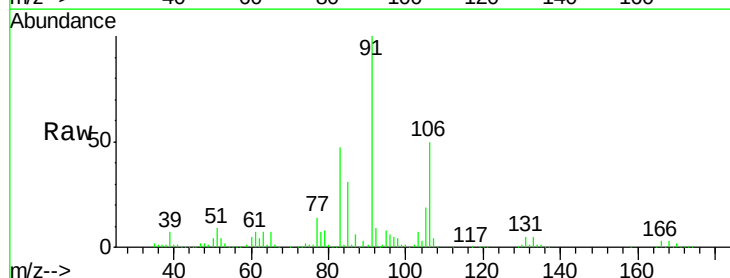
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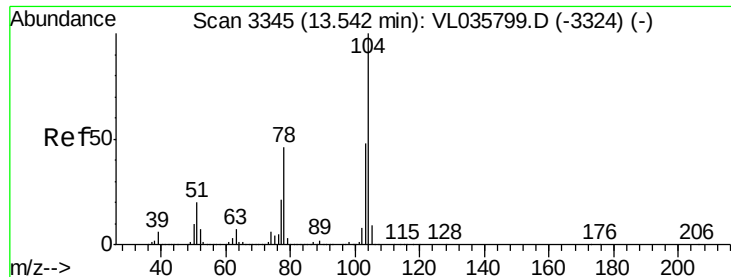
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#60  
o-Xylene  
Concen: 9.351 ppbv  
RT: 13.70 min Scan# 3395  
Delta R.T. -0.00 min  
Lab File: VL035908.D  
Acq: 12 Nov 2020 9:37

Tgt Ion: 91 Resp: 4045237  
Ion Ratio Lower Upper  
91 100  
106 49.1 24.8 74.4





#61

Stvrene

Concen: 9.612 ppbv

RT: 13.54 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion:104 Resp: 3046576

Ion Ratio Lower Upper

104 100

78 47.0 37.1 55.7

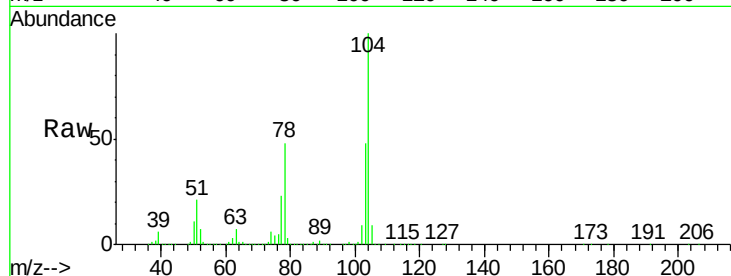
103 47.4 37.9 56.9

Manual Integrations

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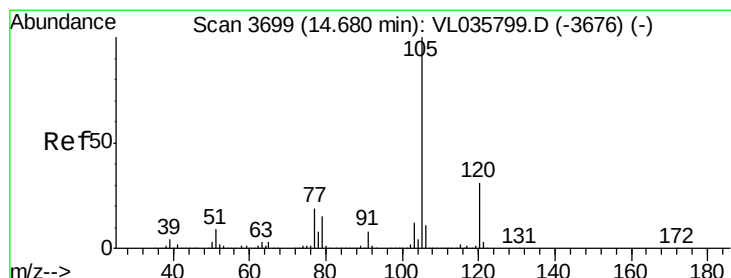
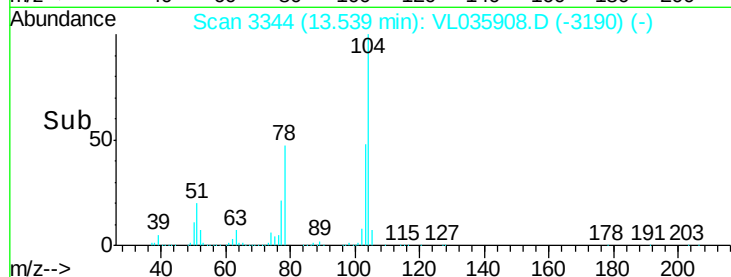
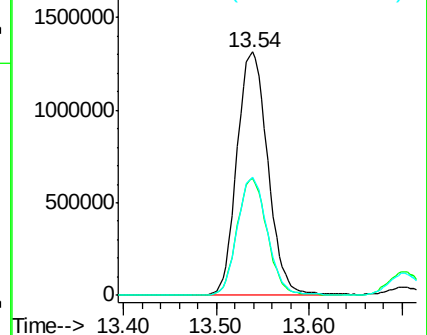
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 8.913 ppbv

RT: 14.68 min Scan# 3698

Delta R.T. -0.00 min

Lab File: VL035908.D

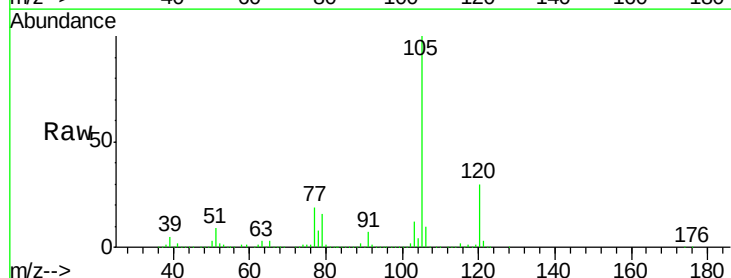
Acq: 12 Nov 2020 9:37

Tgt Ion:105 Resp: 6060358

Ion Ratio Lower Upper

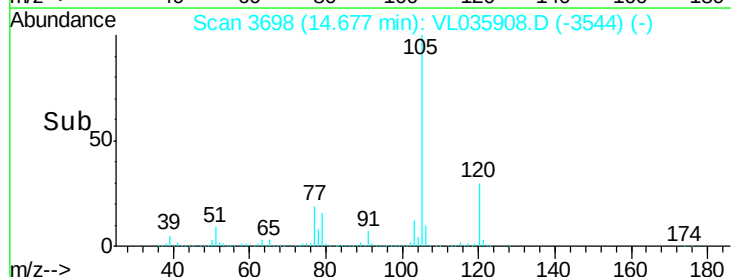
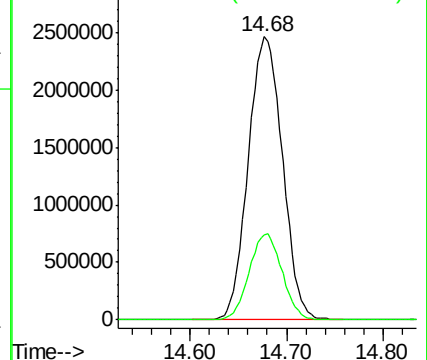
105 100

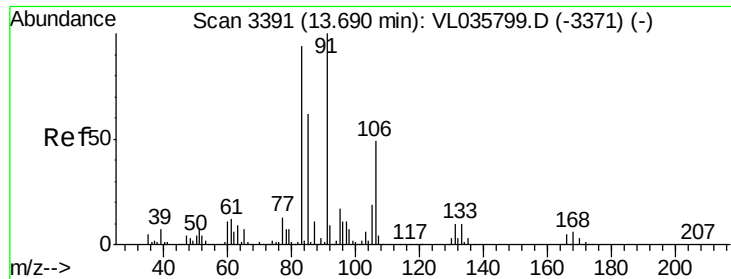
120 29.1 23.5 35.3



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





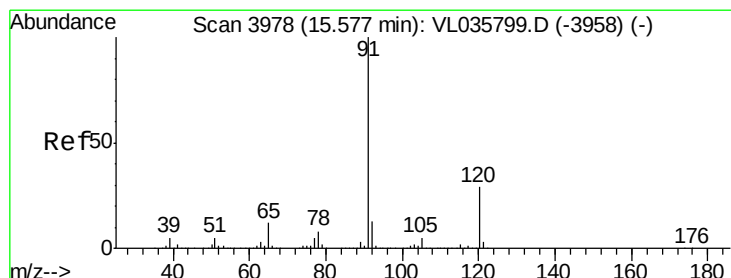
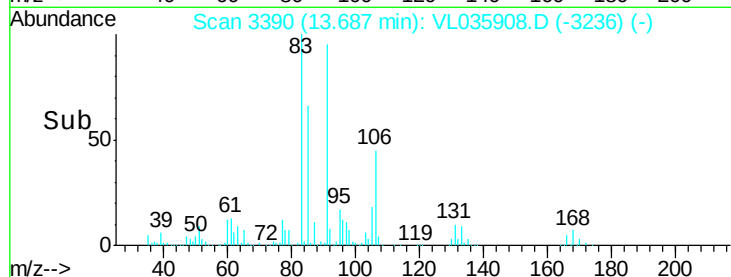
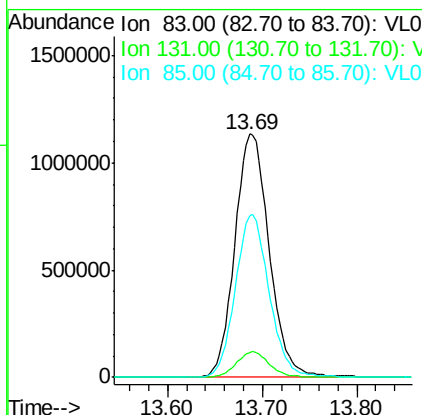
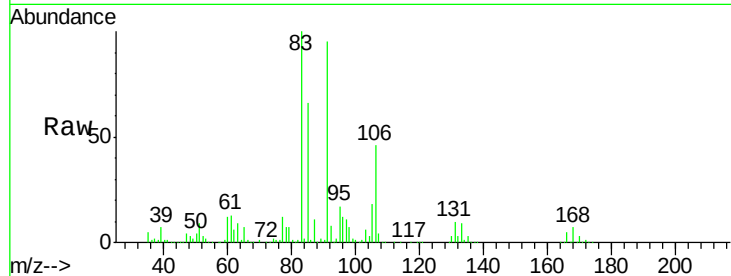
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 8.542 ppbv  
 RT: 13.69 min Scan# 3390  
 Delta R.T. -0.00 min  
 Lab File: VL035908.D  
 Acq: 12 Nov 2020 9:37

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tot Ion: 83 Resp: 2863206  
 Ion Ratio Lower Upper  
 83 100  
 131 10.3 5.3 15.8  
 85 66.4 33.5 100.4

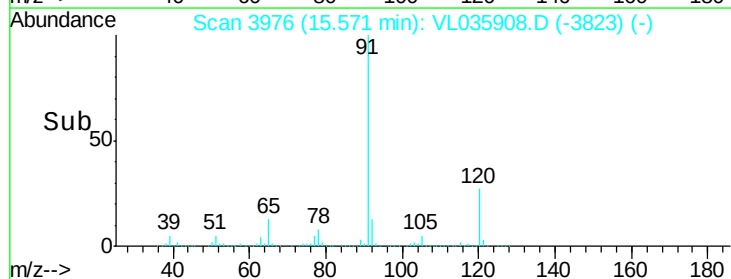
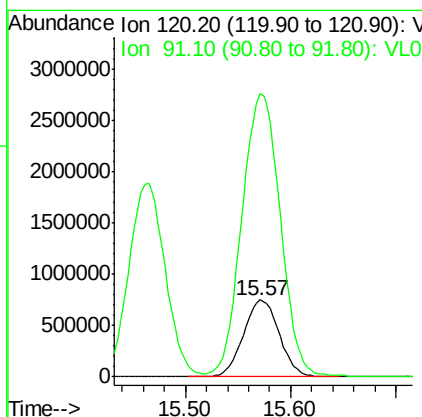
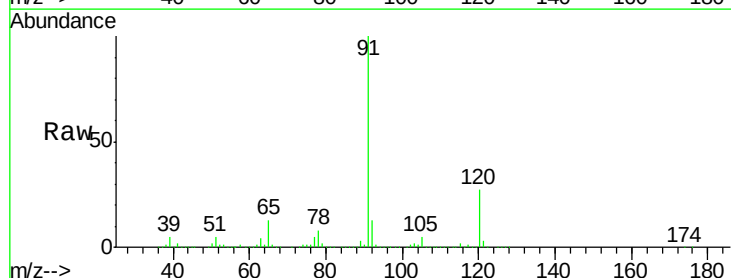
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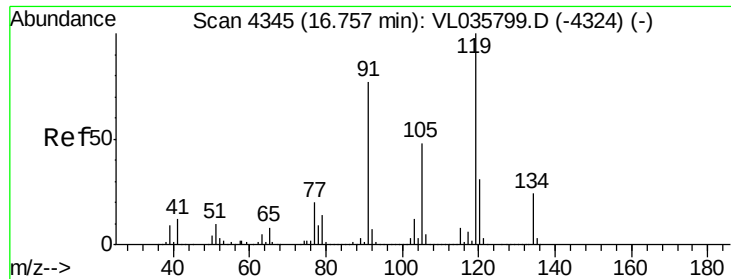
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#64  
 n-propylbenzene  
 Concen: 9.046 ppbv  
 RT: 15.57 min Scan# 3976  
 Delta R.T. -0.01 min  
 Lab File: VL035908.D  
 Acq: 12 Nov 2020 9:37

Tgt Ion: 120 Resp: 1777809  
 Ion Ratio Lower Upper  
 120 100  
 91 395.1 311.1 466.7





#65

tert-Butylbenzene

Concen: 8.721 ppbv

RT: 16.76 min Scan# 4345

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion:119 Resp: 5396942

Ion Ratio Lower Upper

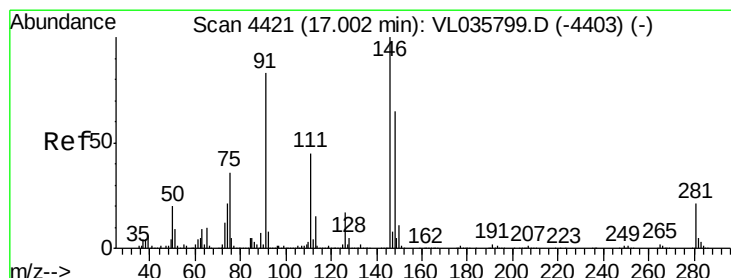
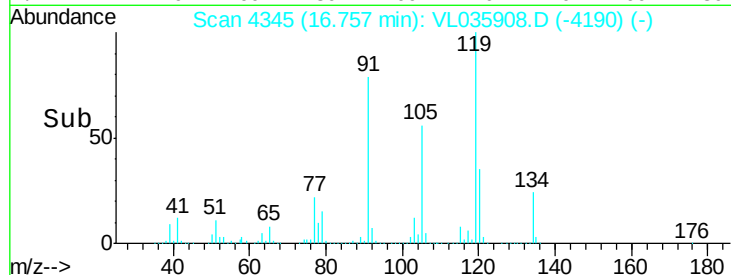
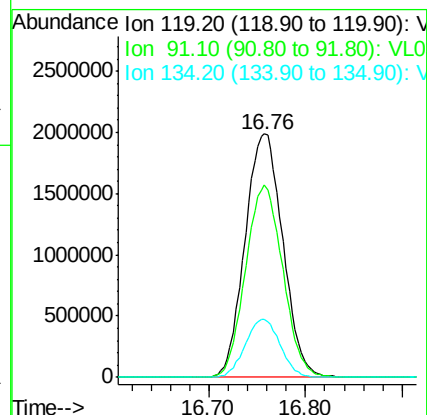
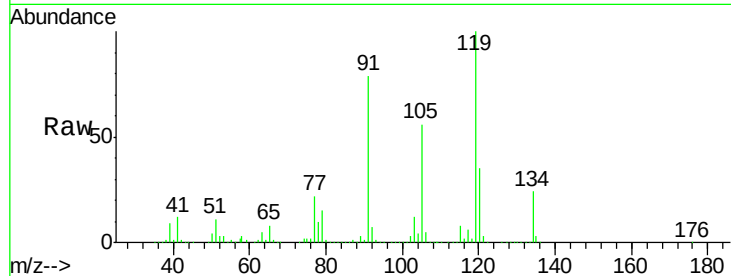
119 100

91 77.7 62.0 93.0

134 22.1 17.8 26.8

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#66

Benzyl Chloride

Concen: 8.918 ppbv

RT: 17.00 min Scan# 4421

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

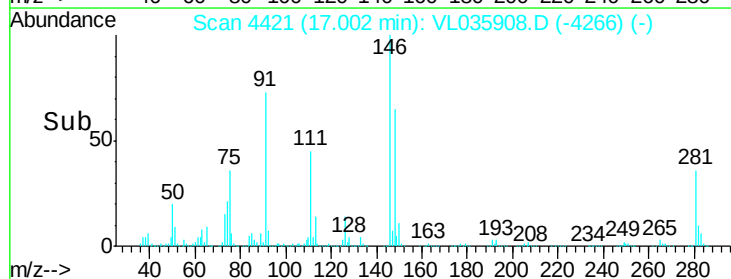
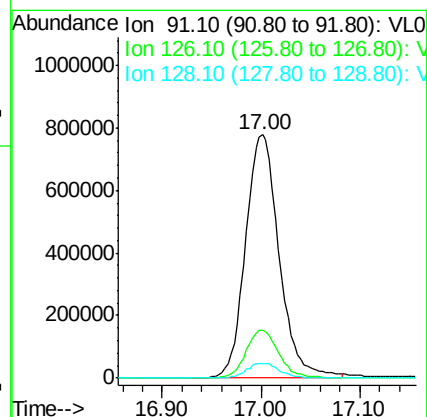
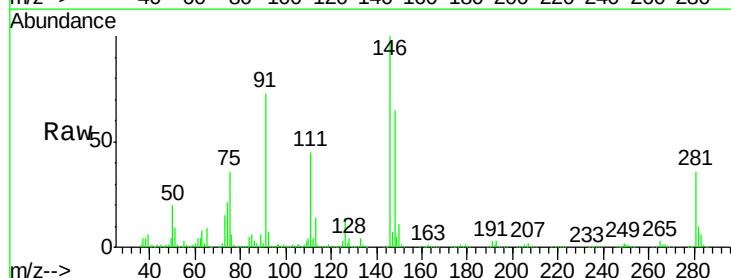
Tgt Ion: 91 Resp: 1824205

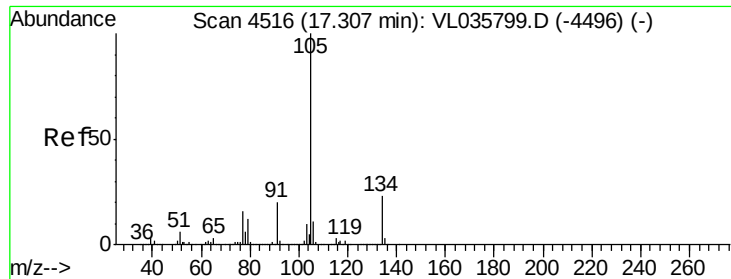
Ion Ratio Lower Upper

91 100

126 19.5 16.0 24.0

128 6.1 5.0 7.4





#67

sec-Butylbenzene

Concen: 8.737 ppbv

RT: 17.30 min Scan# 4516

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 7286417

Ion Ratio Lower Upper

105 100

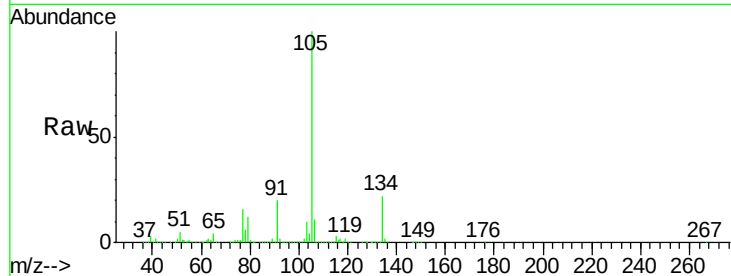
134 20.9 17.0 25.6

Manual Integrations

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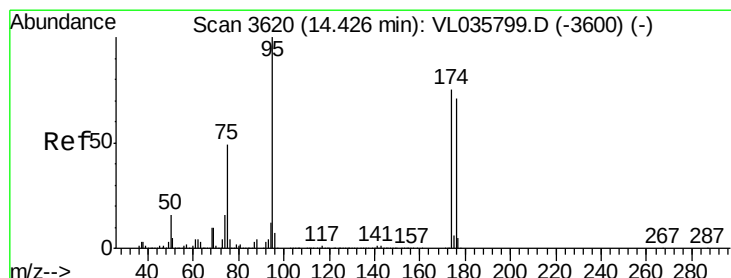
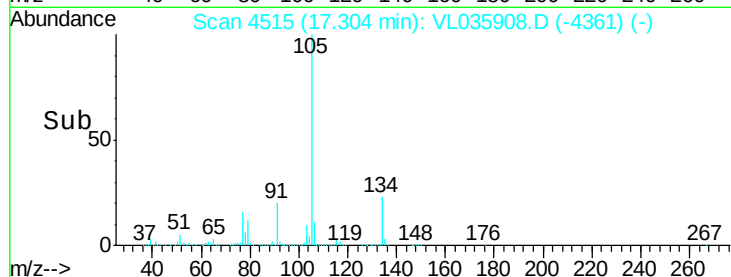
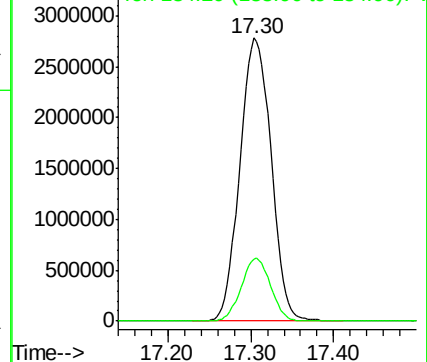
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.253 ppbv

RT: 14.43 min Scan# 3620

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

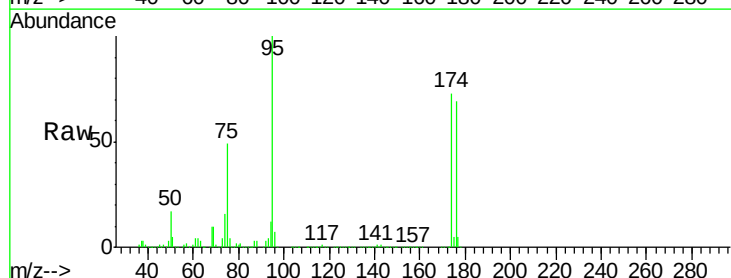
Tgt Ion: 95 Resp: 3143604

Ion Ratio Lower Upper

95 100

174 72.6 59.8 89.6

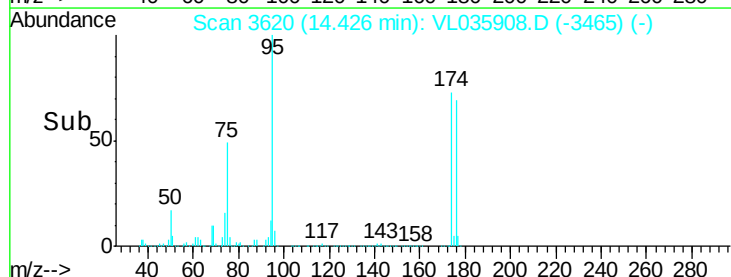
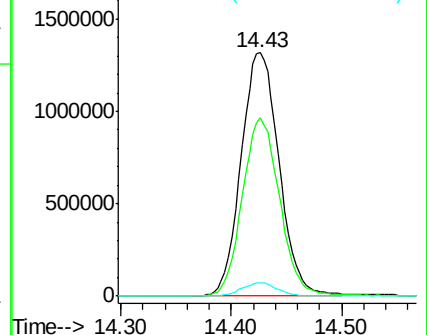
175 5.2 4.3 6.5

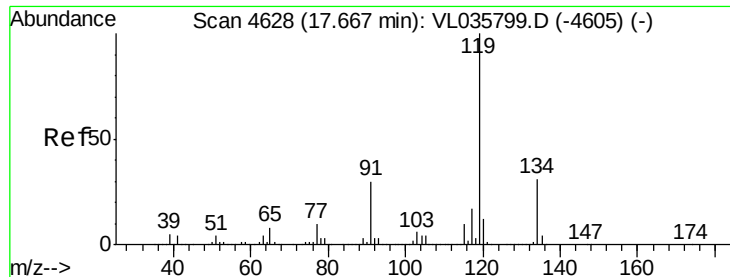


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





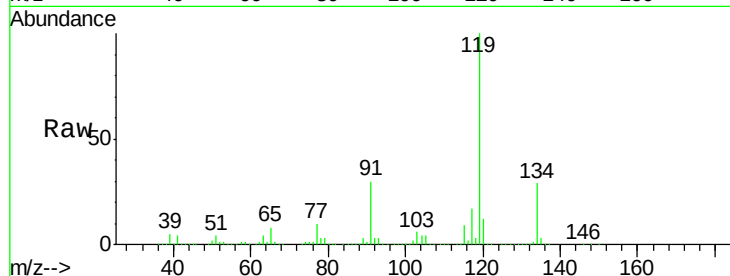
#69  
 p-Isopropyltoluene  
 Concen: 8.741 ppbv  
 RT: 17.66 min Scan# 4627  
 Delta R.T. -0.00 min  
 Lab File: VL035908.D  
 Acq: 12 Nov 2020 9:37

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

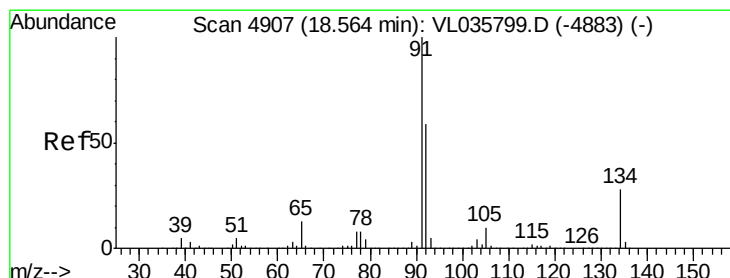
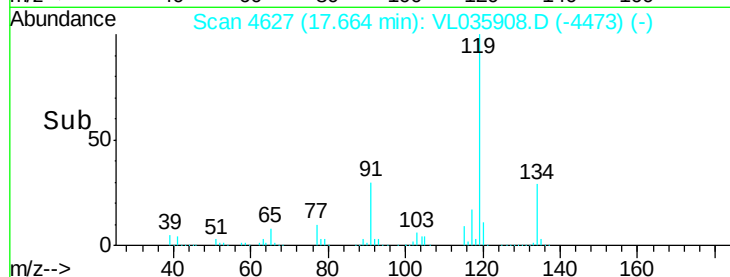
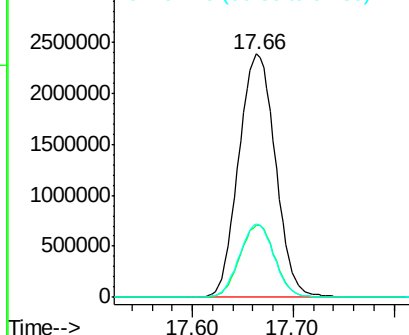
Tot Ion: 119 Resp: 6015674  
 Ion Ratio Lower Upper  
 119 100  
 134 28.4 23.0 34.6  
 91 28.6 22.8 34.2

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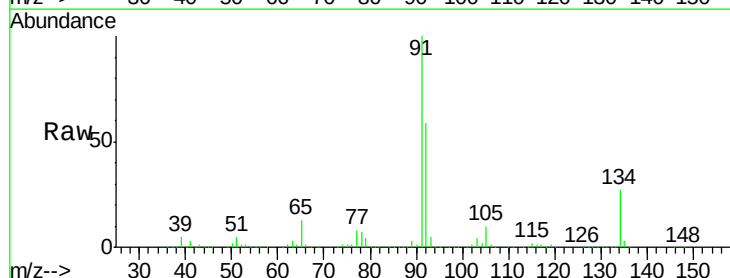


Abundance Ion 119.10 (118.80 to 119.80): V  
 Ion 134.20 (133.90 to 134.90): V  
 Ion 91.10 (90.80 to 91.80): V

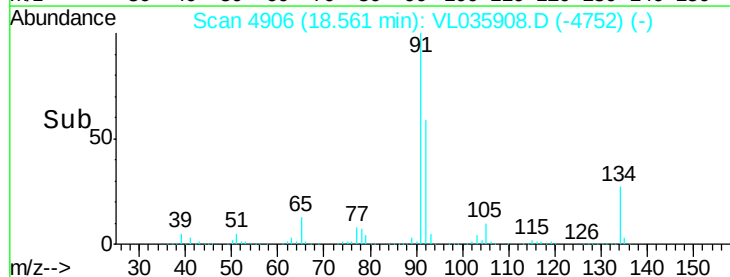
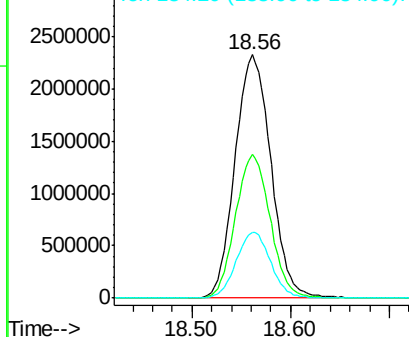


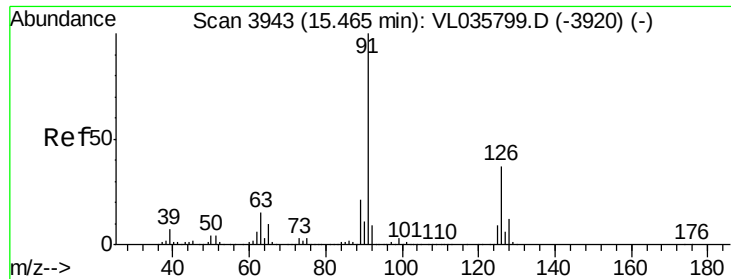
#70  
 n-Butylbenzene  
 Concen: 8.874 ppbv  
 RT: 18.56 min Scan# 4906  
 Delta R.T. -0.00 min  
 Lab File: VL035908.D  
 Acq: 12 Nov 2020 9:37

Tgt Ion: 91 Resp: 5881831  
 Ion Ratio Lower Upper  
 91 100  
 92 57.3 45.7 68.5  
 134 25.9 21.0 31.4



Abundance Ion 91.10 (90.80 to 91.80): VL0  
 Ion 92.10 (91.80 to 92.80): VL0  
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 9.145 ppbv

RT: 15.46 min Scan# 3943

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 4548161

Ion Ratio Lower Upper

91 100

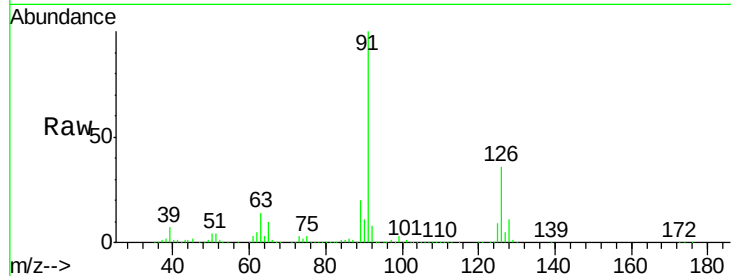
126 34.9 14.3 57.1

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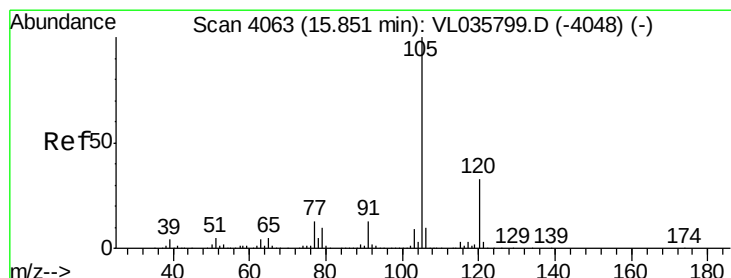
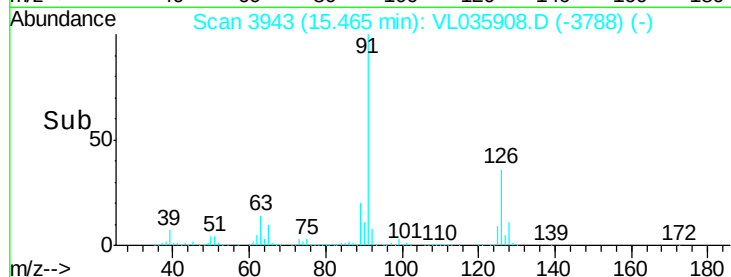
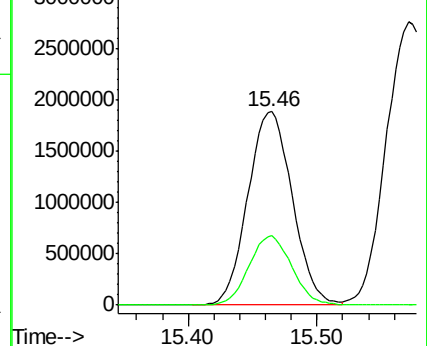
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.098 ppbv

RT: 15.85 min Scan# 4063

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Tgt Ion: 105 Resp: 4773240

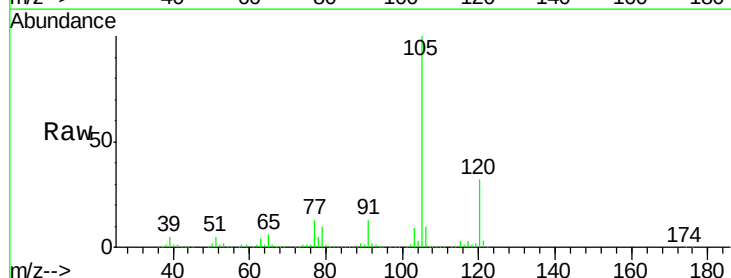
Ion Ratio Lower Upper

105 100

120 32.2 25.9 38.9

91 12.6 9.9 14.9

77 12.7 10.2 15.2

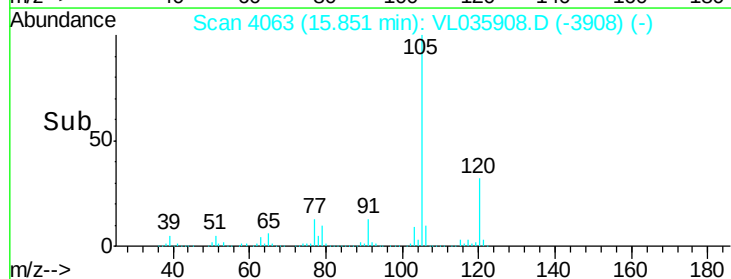
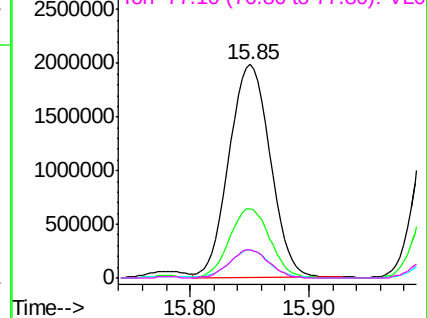


Abundance Ion 105.10 (104.80 to 105.80): V

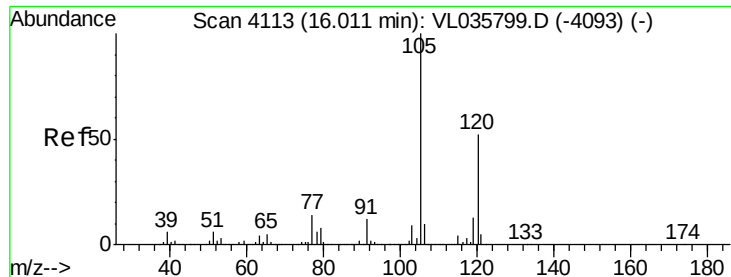
Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0







#73

1,3,5-Trimethylbenzene

Concen: 9.129 ppbv

RT: 16.01 min Scan# 4112

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 4383086

Ion Ratio Lower Upper

105 100

120 51.5

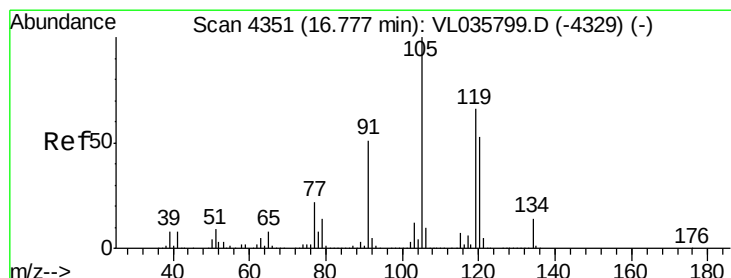
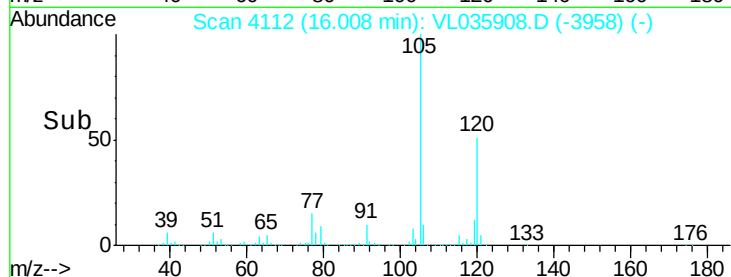
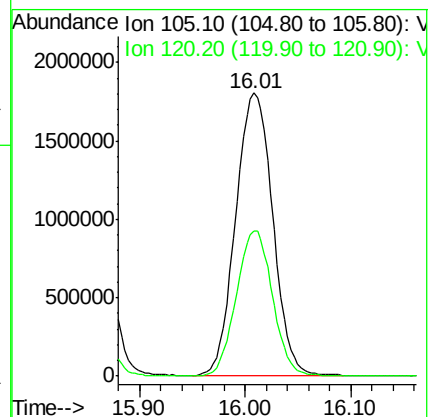
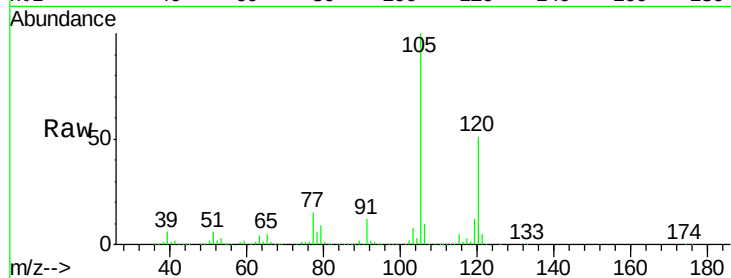
41.4 62.2

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#74

1,2,4-Trimethylbenzene

Concen: 8.852 ppbv

RT: 16.77 min Scan# 4350

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Tgt Ion:105 Resp: 4554109

Ion Ratio Lower Upper

105 100

120 53.3

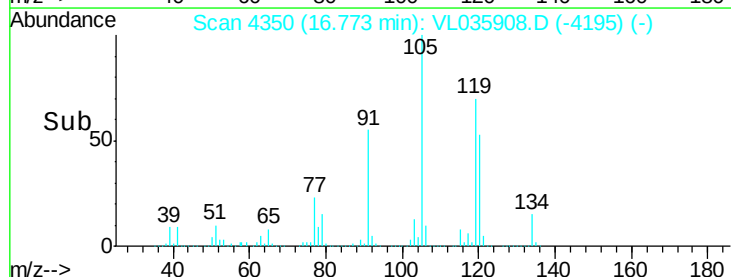
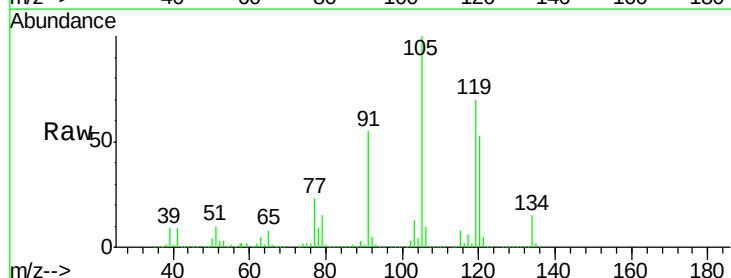
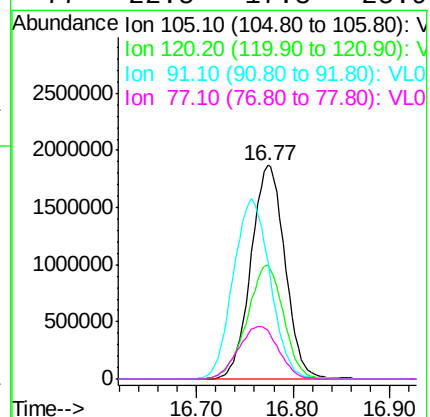
42.0 63.0

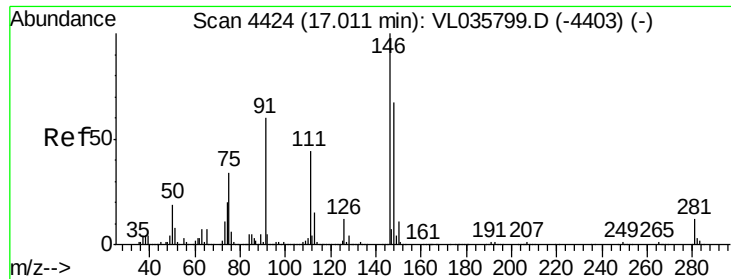
91 55.3

41.0 61.6

77 22.5

17.3 25.9





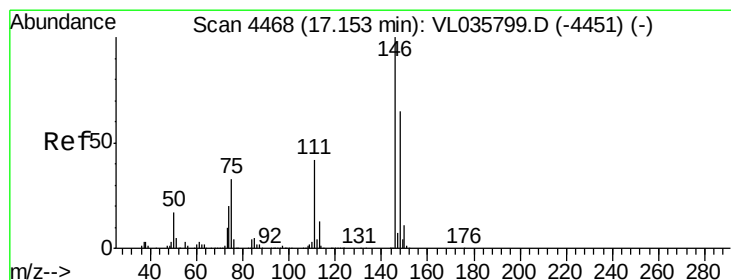
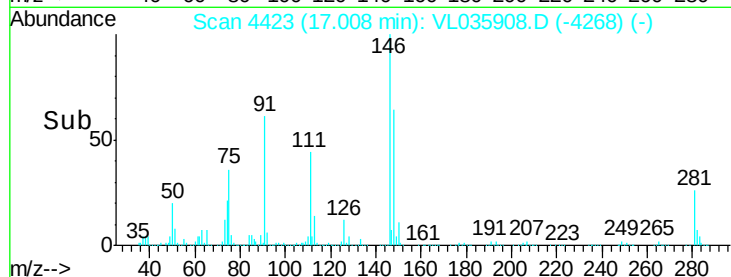
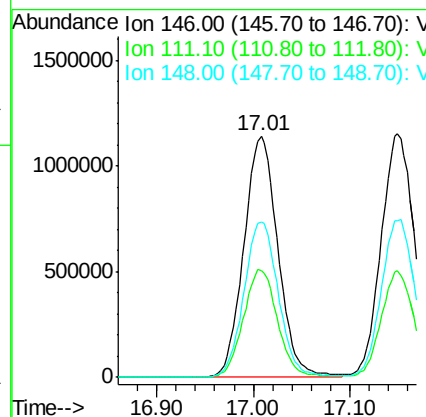
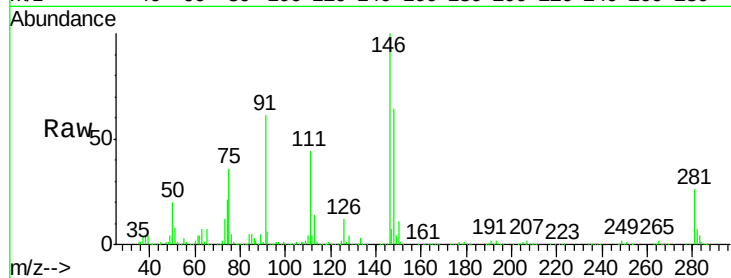
#75  
 1,3-Dichlorobenzene  
 Concen: 8.535 ppbv  
 RT: 17.01 min Scan# 4423  
 Delta R.T. -0.00 min  
 Lab File: VL035908.D  
 Acq: 12 Nov 2020 9:37

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 44.8  | 21.8  | 65.4  |
| 148     | 65.0  | 32.5  | 97.5  |

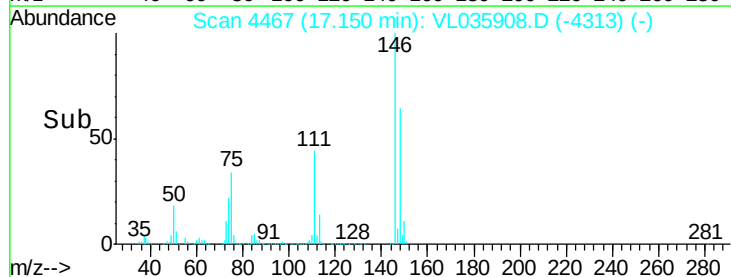
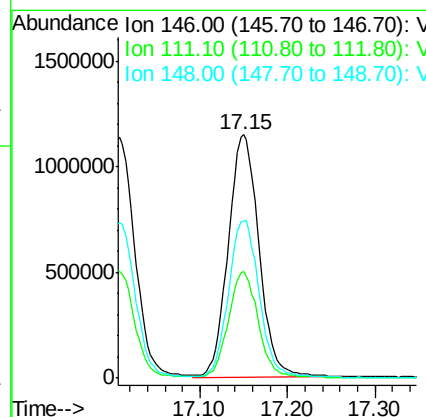
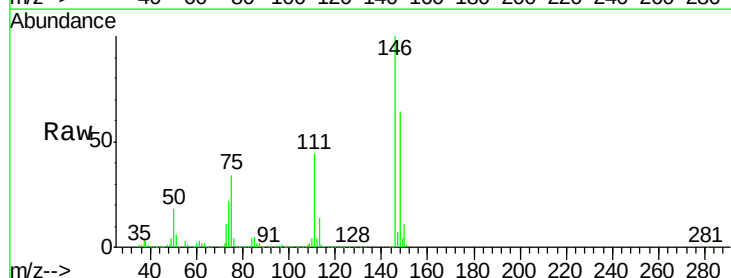
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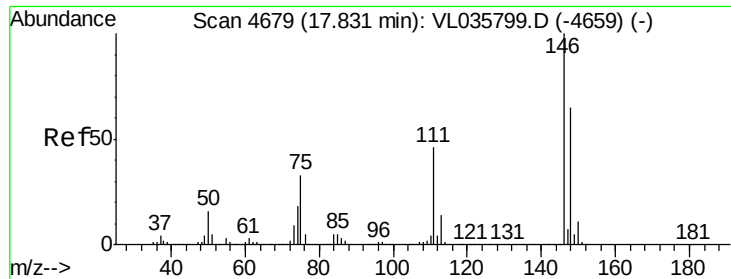
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#76  
 1,4-Dichlorobenzene  
 Concen: 8.843 ppbv  
 RT: 17.15 min Scan# 4467  
 Delta R.T. -0.00 min  
 Lab File: VL035908.D  
 Acq: 12 Nov 2020 9:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.6  | 21.3  | 63.7  |
| 148     | 65.8  | 33.0  | 99.0  |





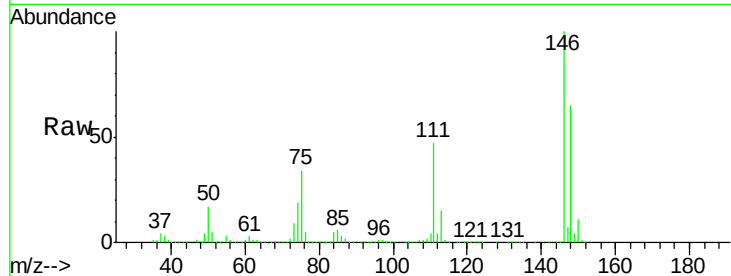
#77  
 1,2-Dichlorobenzene  
 Concen: 8.535 ppbv  
 RT: 17.83 min Scan# 4679  
 Delta R.T. -0.00 min  
 Lab File: VL035908.D  
 Acq: 12 Nov 2020 9:37

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 45.9  | 22.4  | 67.0  |
| 148     | 65.3  | 32.5  | 97.5  |

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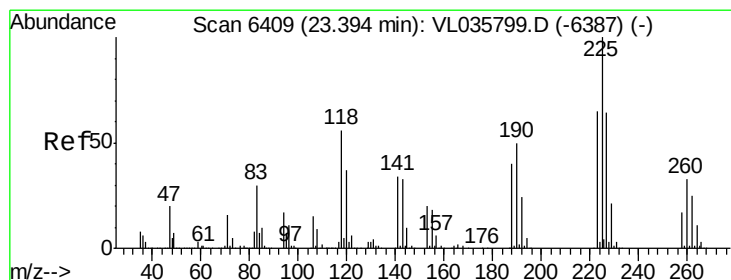
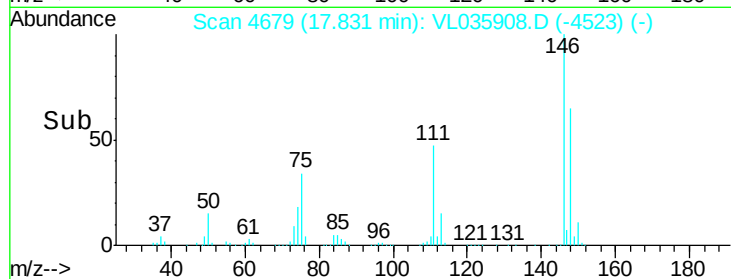
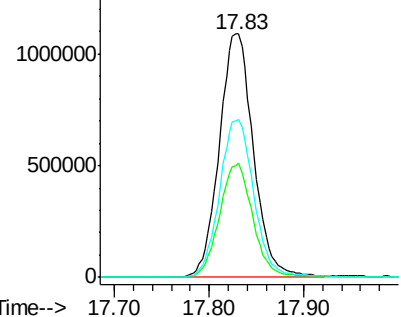


Abundance

Ion 146.00 (145.70 to 146.70): V

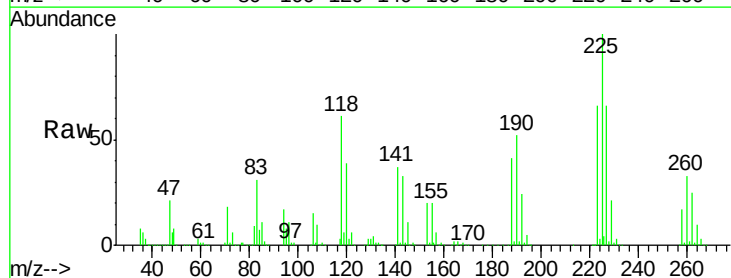
Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 8.634 ppbv  
 RT: 23.39 min Scan# 6407  
 Delta R.T. -0.01 min  
 Lab File: VL035908.D  
 Acq: 12 Nov 2020 9:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 64.1  | 51.0  | 76.6  |
| 227     | 64.2  | 51.2  | 76.8  |

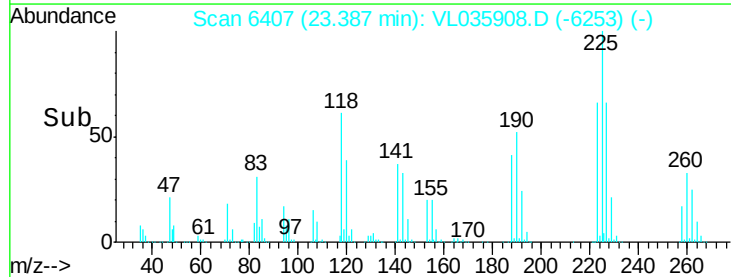
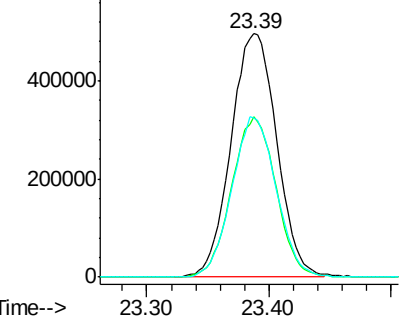


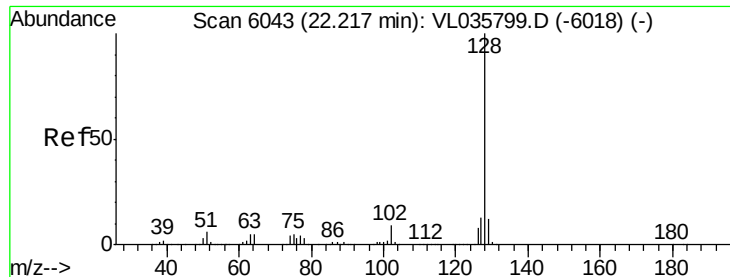
Abundance

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: 8.546 ppbv

RT: 22.21 min Scan# 6042

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion:128 Resp: 3064996

Ion Ratio Lower Upper

128 100

127 12.5 10.2 15.4

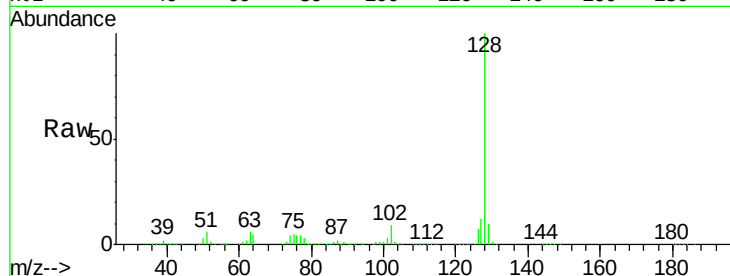
129 10.5 9.2 13.8

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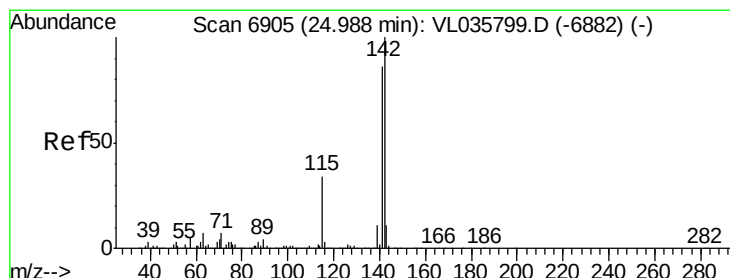
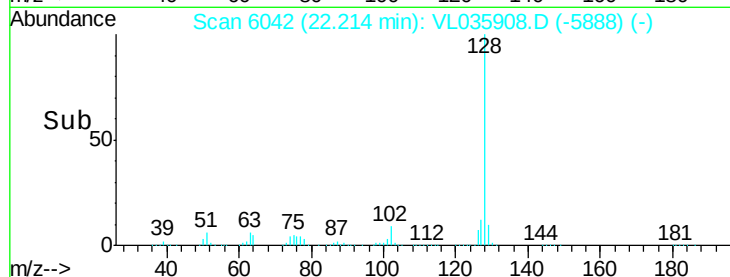
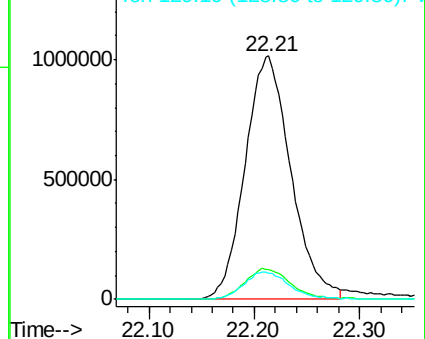
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Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 9.411 ppbv

RT: 24.99 min Scan# 6905

Delta R.T. -0.00 min

Lab File: VL035908.D

Acq: 12 Nov 2020 9:37

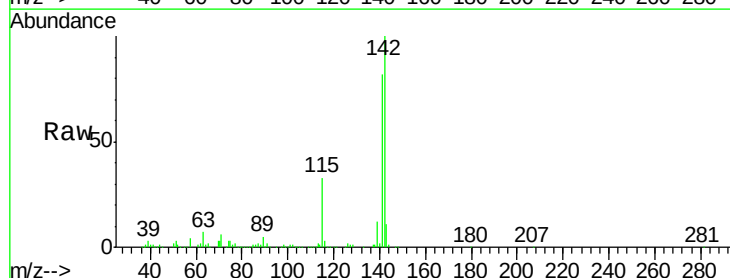
Tgt Ion:142 Resp: 550038

Ion Ratio Lower Upper

142 100

141 84.6 67.8 101.8

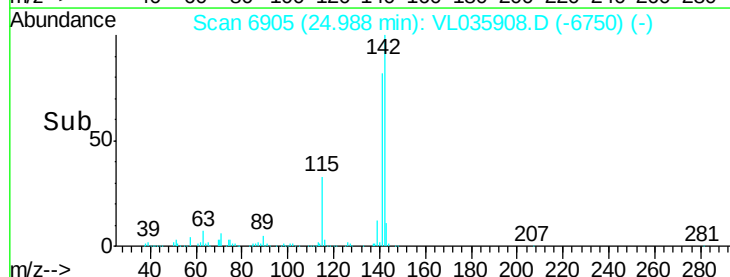
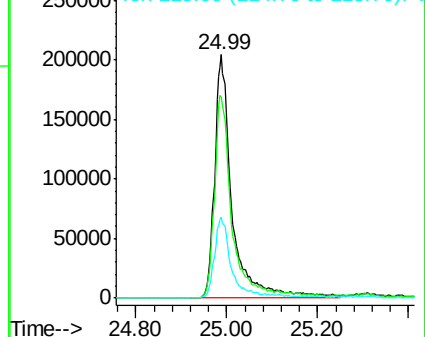
115 31.5 28.1 42.1

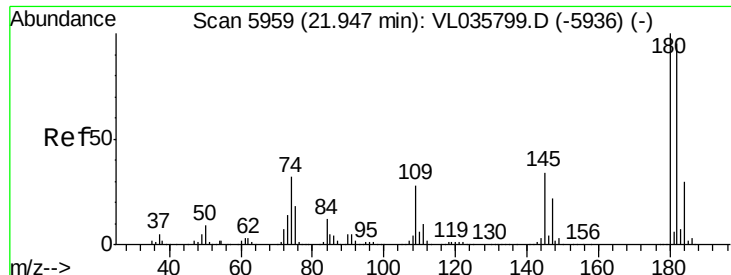


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81  
 1,2,4-Trichlorobenzene  
 Concen: 8.281 ppbv  
 RT: 21.94 min Scan# 5957  
 Delta R.T. -0.01 min  
 Lab File: VL035908.D  
 Acq: 12 Nov 2020 9:37

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 99.5  | 77.2  | 115.8 |
| 184     | 31.7  | 24.7  | 37.1  |

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