

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070620\  
 Data File : VL035165.D  
 Acq On : 7 Jul 2020 5:54  
 Operator : SY/AP  
 Sample : VL0706ABS01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0706ABS01

Manual Integrations  
 APPROVED

MMDadoda  
 7/9/2020 12:01:40 PM

Quant Time: Jul 07 06:43:18 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061920AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Sat Jun 20 2020  
 QLast Update : Sat Jun 20 02:10:36 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1035965  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 2451736  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.11 | 117  | 2461352m | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.44  | 95    | 1982774  | 9.70     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 97.00% |

| Target Compounds               |      |     |         |        | Ovalue    |
|--------------------------------|------|-----|---------|--------|-----------|
| 2) Dichlorodifluoromethane     | 3.00 | 85  | 1316136 | 9.408  | ppbv 97   |
| 3) Chlorodifluoromethane       | 2.94 | 51  | 1181530 | 10.324 | ppbv 99   |
| 4) Chloromethane               | 3.09 | 50  | 674841  | 10.519 | ppbv 99   |
| 5) Vinyl Chloride              | 3.21 | 62  | 660804  | 10.832 | ppbv 97   |
| 6) Bromomethane                | 3.43 | 94  | 400660  | 10.576 | ppbv 90   |
| 7) Chloroethane                | 3.51 | 64  | 247428  | 10.755 | ppbv 98   |
| 8) Dichlorotetrafluoroethane   | 3.14 | 85  | 1510143 | 10.068 | ppbv 97   |
| 9) Propene                     | 2.96 | 41  | 503152  | 11.103 | ppbv 100  |
| 10) Heptane                    | 8.12 | 43  | 1321818 | 11.255 | ppbv 99   |
| 11) Trichlorofluoromethane     | 3.91 | 101 | 1566246 | 10.481 | ppbv 100  |
| 12) 1,1,2-Trichlorotrifluoroet | 4.45 | 101 | 1115936 | 10.799 | ppbv 99   |
| 13) Ethanol                    | 3.56 | 45  | 136215  | 7.957  | ppbv 99   |
| 14) Bromoethene                | 3.70 | 108 | 496554  | 11.147 | ppbv 98   |
| 15) Acetone                    | 3.81 | 43  | 1221296 | 9.751  | ppbv 98   |
| 16) 1,3-Butadiene              | 3.28 | 39  | 612732  | 11.154 | ppbv 98   |
| 17) tert-Butyl alcohol         | 4.26 | 59  | 1327657 | 11.961 | ppbv 99   |
| 18) 1,1-Dichloroethene         | 4.25 | 96  | 513137  | 11.010 | ppbv 96   |
| 19) Isopropyl Alcohol          | 3.93 | 45  | 908508  | 11.171 | ppbv 99   |
| 20) Methylene Chloride         | 4.31 | 84  | 468993  | 9.252  | ppbv 94   |
| 21) Allyl Chloride             | 4.38 | 41  | 876872  | 11.780 | ppbv 99   |
| 22) trans-1,2-Dichloroethene   | 4.86 | 96  | 508510  | 11.662 | ppbv 97   |
| 23) Vinyl Acetate              | 5.05 | 43  | 1781293 | 11.717 | ppbv 100  |
| 24) 1,1-Dichloroethane         | 4.98 | 63  | 1352753 | 10.554 | ppbv 99   |
| 25) Ethyl Acetate              | 5.65 | 43  | 2344788 | 10.373 | ppbv 99   |
| 26) Hexane                     | 5.67 | 57  | 1044934 | 10.253 | ppbv 99   |
| 27) Carbon Disulfide           | 4.52 | 76  | 1444204 | 13.694 | ppbv 99   |
| 28) Methyl tert-Butyl Ether    | 5.00 | 73  | 1634993 | 11.418 | ppbv 100  |
| 29) Chloroform                 | 5.74 | 83  | 1607332 | 10.078 | ppbv 98   |
| 30) Cyclohexane                | 7.12 | 84  | 862187  | 11.788 | ppbv 99   |
| 31) cis-1,2-Dichloroethene     | 5.53 | 61  | 1045792 | 11.132 | ppbv 93   |
| 32) 1,1,1-Trichloroethane      | 6.50 | 97  | 1587344 | 10.731 | ppbv 99   |
| 34) 2-Butanone                 | 5.22 | 43  | 1472511 | 10.458 | ppbv 99   |
| 35) Carbon Tetrachloride       | 7.01 | 117 | 1639639 | 11.151 | ppbv 96   |
| 36) Benzene                    | 6.89 | 78  | 2046562 | 10.780 | ppbv 99   |
| 37) 1,2-Dichloroethane         | 6.30 | 62  | 1267844 | 10.567 | ppbv 99   |
| 38) Trichloroethene            | 7.83 | 130 | 812102  | 11.013 | ppbv 97   |
| 39) 1,2-Dichloropropane        | 7.61 | 63  | 799960  | 10.773 | ppbv 98   |
| 40) 1,4-Dioxane                | 7.83 | 88  | 307732  | 10.507 | ppbv # 96 |
| 41) Tetrahydrofuran            | 6.03 | 42  | 816369  | 11.352 | ppbv 100  |
| 42) Bromodichloromethane       | 7.79 | 83  | 1719032 | 11.062 | ppbv 95   |
| 43) Methyl Methacrylate        | 8.01 | 69  | 925943  | 11.522 | ppbv 99   |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070620\  
 Data File : VL035165.D  
 Acq On : 7 Jul 2020 5:54  
 Operator : SY/AP  
 Sample : VL0706ABS01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0706ABS01

Manual Integrations  
 APPROVED

MMDadoda  
 7/9/2020 12:01:40 PM

Quant Time: Jul 07 06:43:18 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061920AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Sat Jun 20 2020  
 QLast Update : Sat Jun 20 02:10:36 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 3493207  | 10.542 | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.28  | 75   | 1039378  | 13.290 | ppbv   | 99       |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 1229122  | 12.651 | ppbv   | 95       |
| 47) 1,1,2-Trichloroethane     | 9.49  | 97   | 830631   | 10.250 | ppbv   | 96       |
| 48) Dibromochloromethane      | 10.32 | 129  | 1420016  | 11.754 | ppbv   | 100      |
| 49) Bromoform                 | 13.07 | 173  | 1189526  | 11.590 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.74  | 43   | 2187038  | 10.933 | ppbv   | 100      |
| 51) 2-Hexanone                | 10.14 | 43   | 1744768  | 11.137 | ppbv # | 100      |
| 52) Tetrachloroethene         | 11.24 | 164  | 724663   | 10.833 | ppbv   | 96       |
| 53) Toluene                   | 9.82  | 91   | 2357101  | 11.640 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 10.63 | 107  | 1269443  | 10.579 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.15 | 131  | 1046963  | 10.394 | ppbv # | 57       |
| 57) Chlorobenzene             | 12.17 | 112  | 1768890  | 9.767  | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.73 | 91   | 3102597  | 11.219 | ppbv   | 99       |
| 59) m/p-Xylene                | 13.01 | 91   | 5078532m | 20.721 | ppbv   |          |
| 60) o-Xylene                  | 13.71 | 91   | 2516770  | 10.315 | ppbv   | 99       |
| 61) Styrene                   | 13.55 | 104  | 1767980  | 11.515 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.69 | 105  | 3715240  | 10.204 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.70 | 83   | 1744674  | 8.828  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.59 | 120  | 960114   | 10.333 | ppbv   | 94       |
| 65) tert-Butylbenzene         | 16.77 | 119  | 3205868  | 10.283 | ppbv   | 100      |
| 66) Benzyl Chloride           | 17.02 | 91   | 1256129  | 13.042 | ppbv   | 100      |
| 67) sec-Butylbenzene          | 17.32 | 105  | 4569158  | 10.225 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.68 | 119  | 3844883  | 10.787 | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.58 | 91   | 4075722  | 10.615 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.48 | 91   | 2854873  | 10.373 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.86 | 105  | 2945726  | 10.853 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.02 | 105  | 2757563  | 10.747 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.79 | 105  | 2890460  | 10.093 | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 17.03 | 146  | 1655346  | 9.686  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.17 | 146  | 1665727  | 10.189 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.85 | 146  | 1607754  | 10.281 | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.41 | 225  | 1553715  | 11.054 | ppbv   | 99       |
| 79) Naphthalene               | 22.25 | 128  | 3435314  | 13.683 | ppbv   | 98       |
| 80) Naphthalene, 2-methyl-    | 25.00 | 142  | 1355385  | 14.119 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 21.98 | 180  | 1815056  | 12.532 | ppbv   | 99       |

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

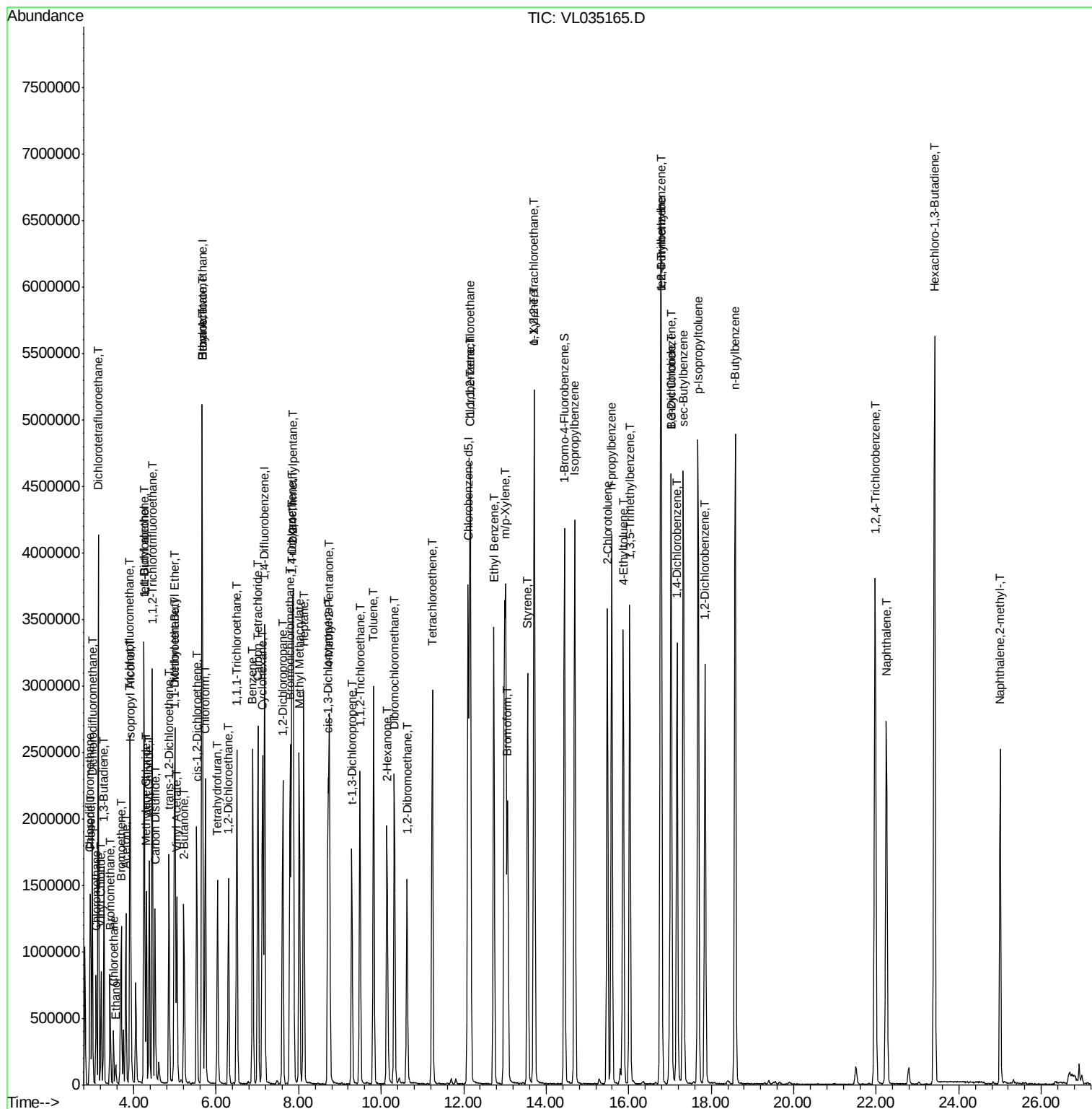
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL070620\  
Data File : VL035165.D  
Acq On : 7 Jul 2020 5:54  
Operator : SY/AP  
Sample : VL0706ABS01  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

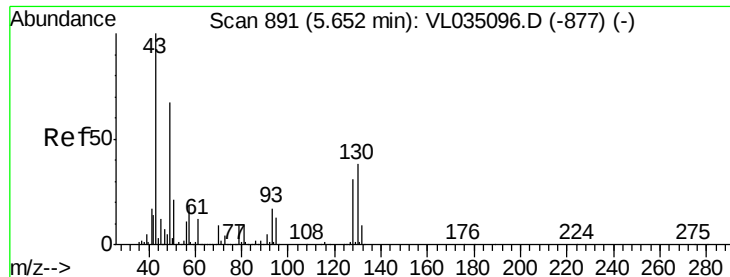
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0706ABS01

Manual Integrations  
APPROVED

MMDadoda  
7/9/2020 12:01:40 PM

Quant Time: Jul 07 06:43:18 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL061920AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Sat Jun  
QLast Update : Sat Jun 20 02:10:36 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL035165.D

Acq: 7 Jul 2020 5:54

Instrument :

MSVOA\_L

ClientSampleId :

VL0706ABS01

Tot Ion: 49 Resp: 1035965

Ion Ratio Lower Upper

49 100

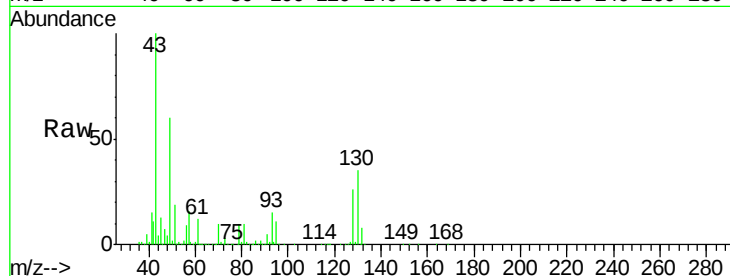
128 45.9 22.9 68.5

130 59.3 29.0 87.0

Manual Integrations  
APPROVED

MMDadoda

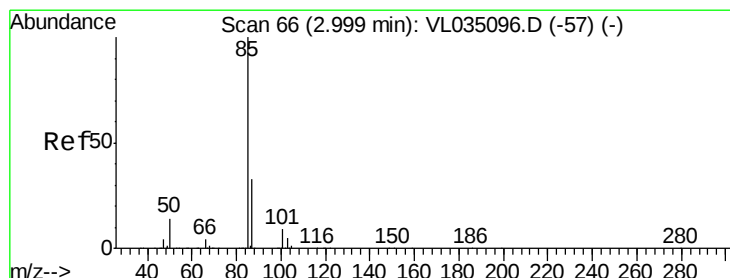
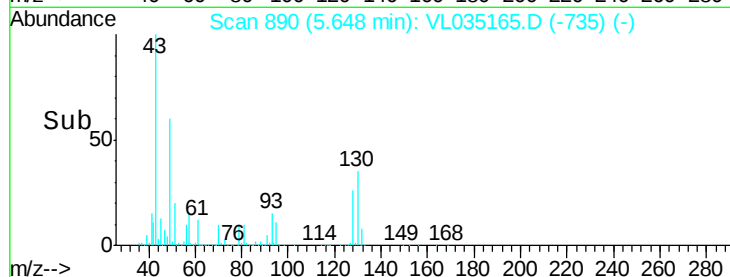
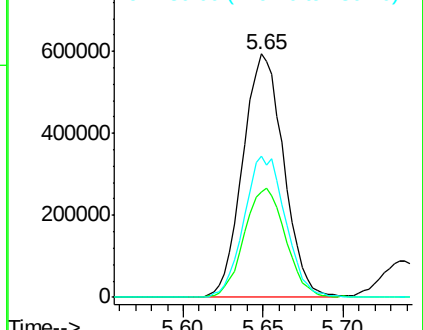
7/9/2020 12:01:40 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 9.408 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.00 min

Lab File: VL035165.D

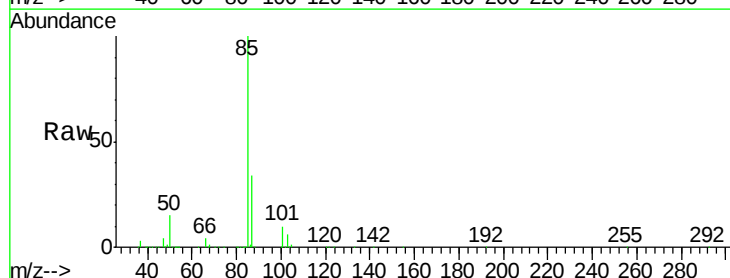
Acq: 7 Jul 2020 5:54

Tgt Ion: 85 Resp: 1316136

Ion Ratio Lower Upper

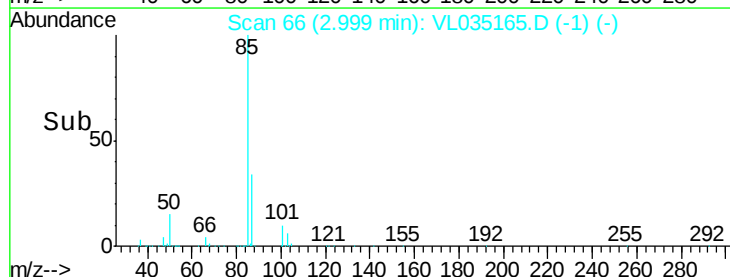
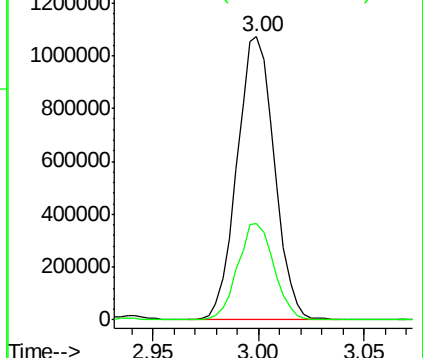
85 100

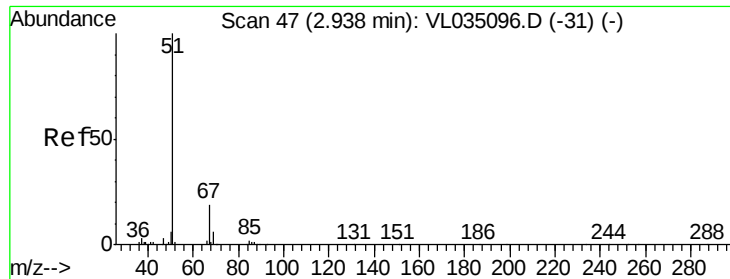
87 34.2 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 10.324 ppbv

RT: 2.94 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL035165.D

Acq: 7 Jul 2020 5:54

Tot Ion: 51 Resp: 1181530

Ion Ratio Lower Upper

51 100

67 18.7 15.2 22.8

Instrument :

MSVOA\_L

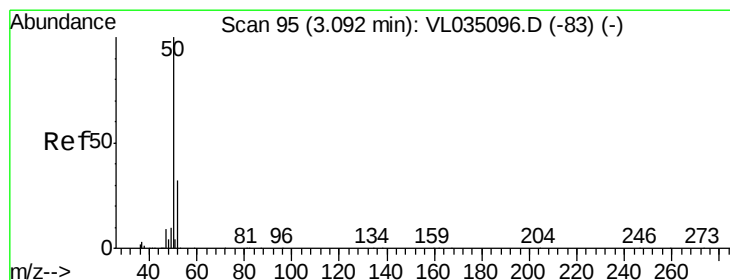
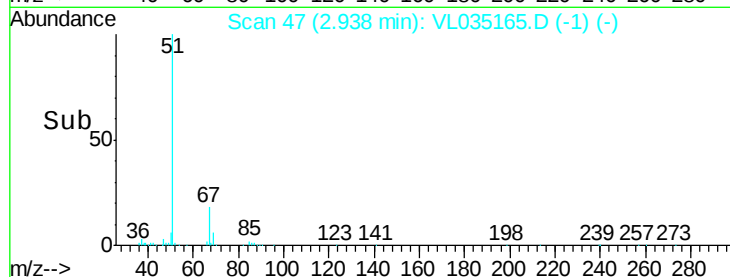
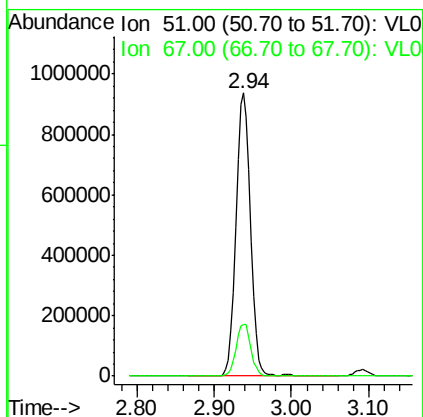
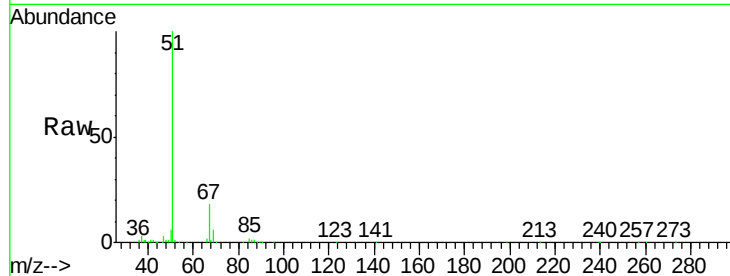
ClientSampleId :

VL0706ABS01

Manual Integrations  
APPROVED

MMDadoda

7/9/2020 12:01:40 PM



#4

Chloromethane

Concen: 10.519 ppbv

RT: 3.09 min Scan# 95

Delta R.T. 0.00 min

Lab File: VL035165.D

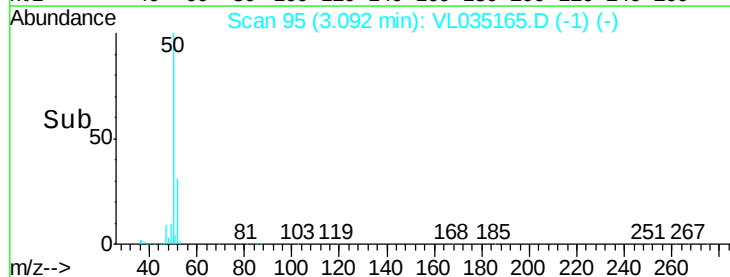
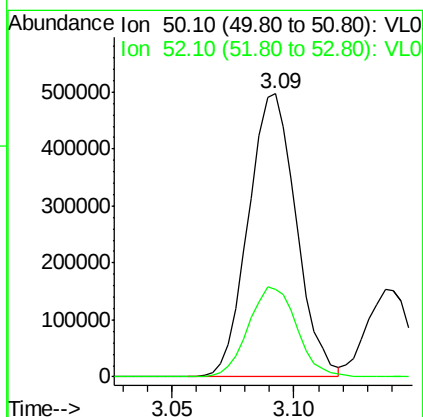
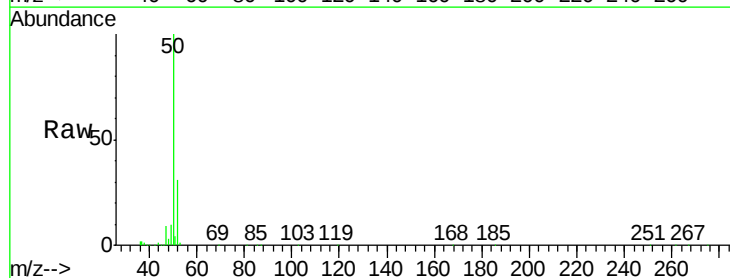
Acq: 7 Jul 2020 5:54

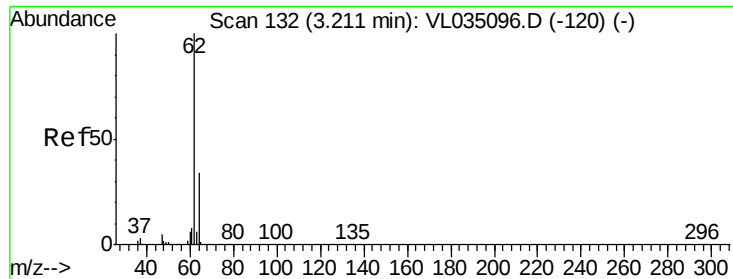
Tgt Ion: 50 Resp: 674841

Ion Ratio Lower Upper

50 100

52 31.1 25.4 38.0





#5

Vinyl Chloride

Concen: 10.832 ppbv

RT: 3.21 min Scan# 131

Delta R.T. -0.00 min

Lab File: VL035165.D

Acq: 7 Jul 2020 5:54

Instrument :

MSVOA\_L

ClientSampleId :

VL0706ABS01

Tot Ion: 62 Resp: 660804

Ion Ratio Lower Upper

62 100

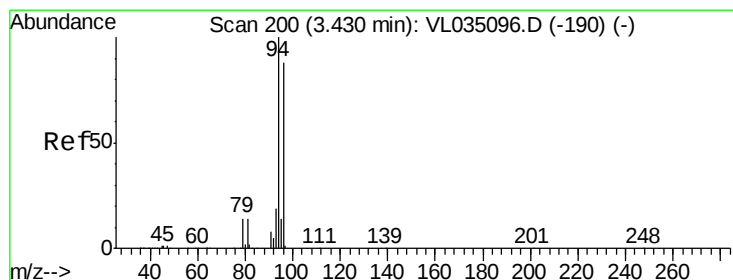
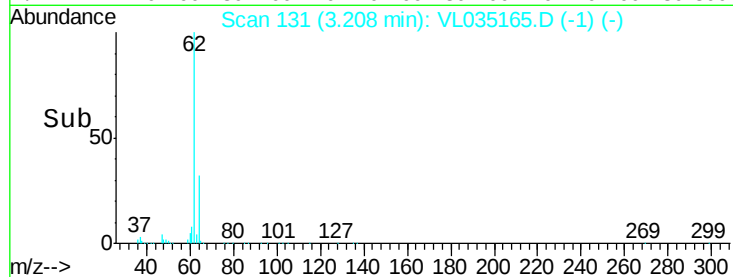
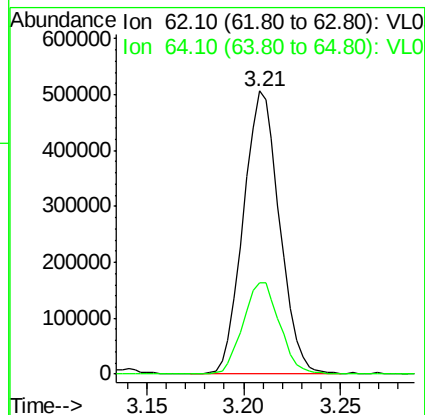
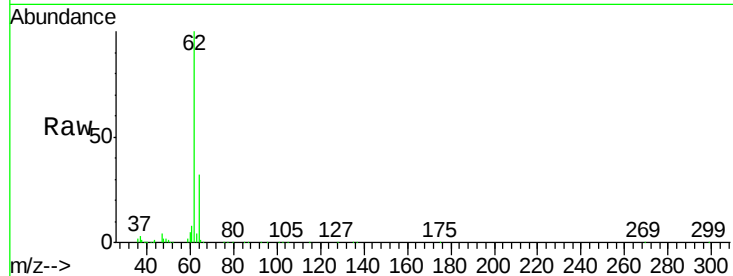
64 32.1 27.0 40.4

Manual Integrations

APPROVED

MMDadoda

7/9/2020 12:01:40 PM



#6

Bromomethane

Concen: 10.576 ppbv

RT: 3.43 min Scan# 199

Delta R.T. -0.00 min

Lab File: VL035165.D

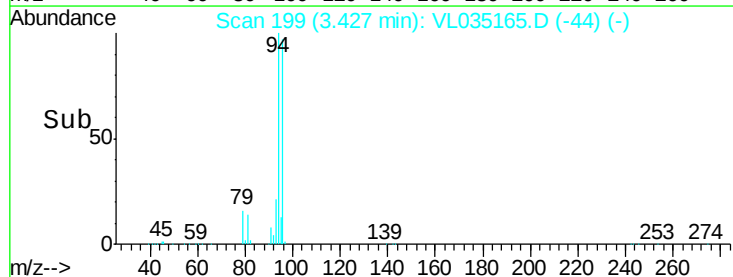
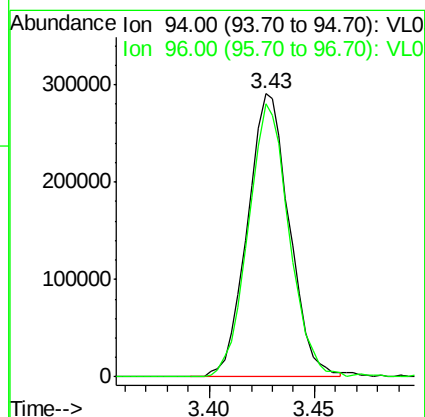
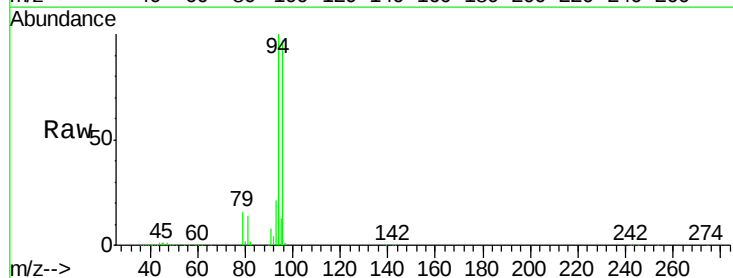
Acq: 7 Jul 2020 5:54

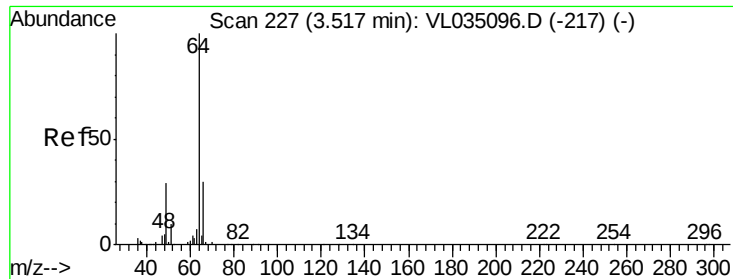
Tgt Ion: 94 Resp: 400660

Ion Ratio Lower Upper

94 100

96 96.7 70.2 105.2





#7

Chloroethane

Concen: 10.755 ppbv

RT: 3.51 min Scan# 226

Delta R.T. -0.00 min

Lab File: VL035165.D

Acq: 7 Jul 2020 5:54

Instrument :

MSVOA\_L

ClientSampleId :

VL0706ABS01

Tot Ion: 64 Resp: 247428

Ion Ratio Lower Upper

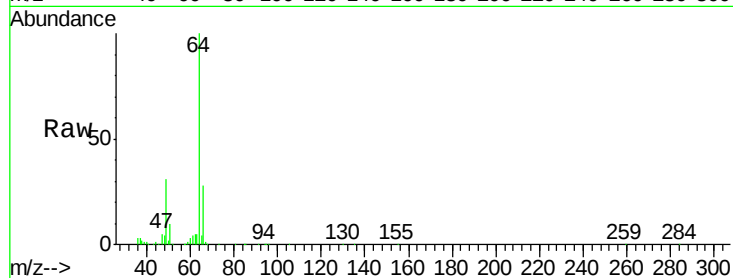
64 100

66 29.0 24.2 36.4

Manual Integrations  
APPROVED

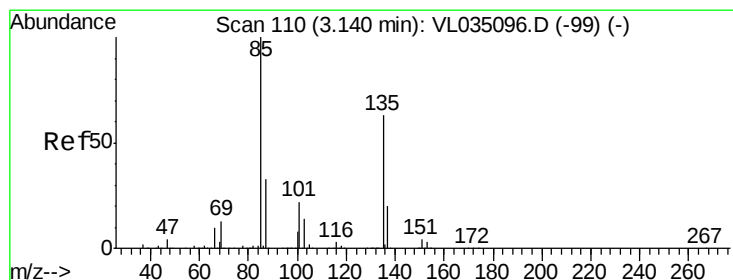
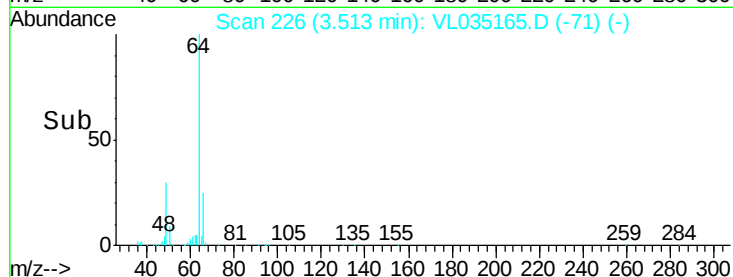
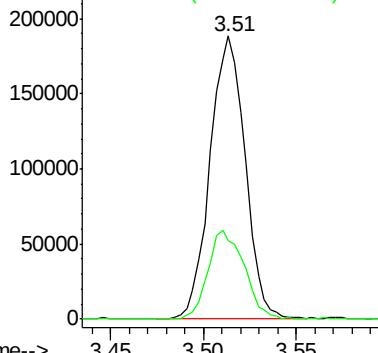
MMDadoda

7/9/2020 12:01:40 PM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 10.068 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL035165.D

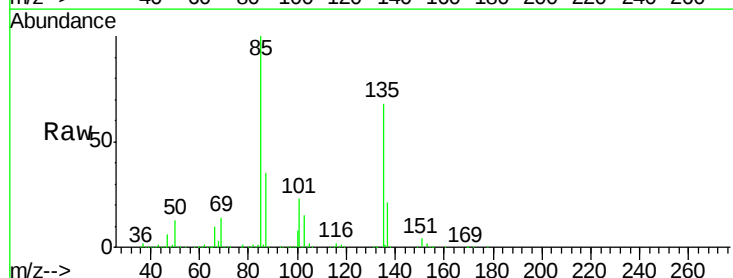
Acq: 7 Jul 2020 5:54

Tgt Ion: 85 Resp: 1510143

Ion Ratio Lower Upper

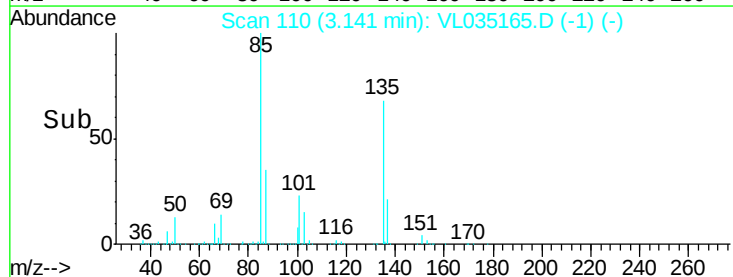
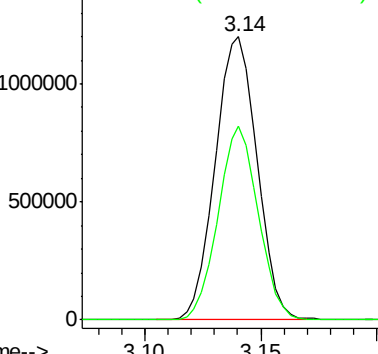
85 100

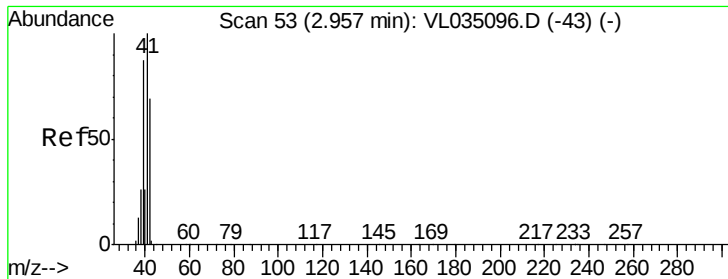
135 65.9 51.0 76.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 11.103 ppbv

RT: 2.96 min Scan# 54

Delta R.T. 0.00 min

Lab File: VL035165.D

Acq: 7 Jul 2020 5:54

Instrument :

MSVOA\_L

ClientSampleId :

VL0706ABS01

Tot Ion: 41 Resp: 503152

Ion Ratio Lower Upper

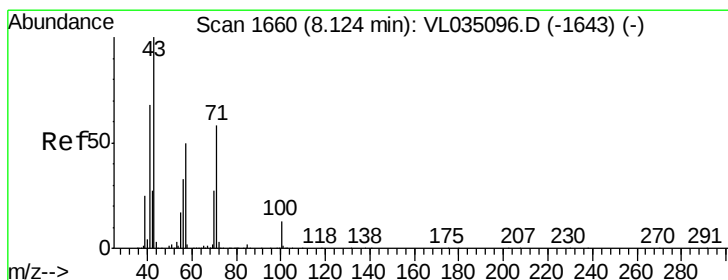
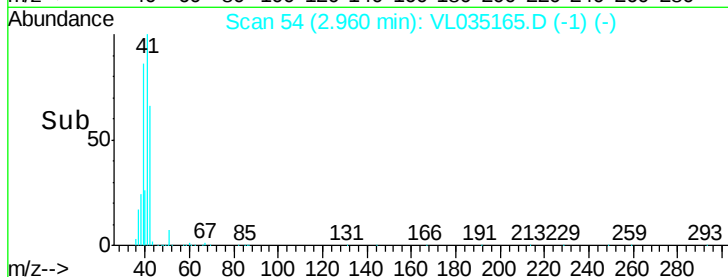
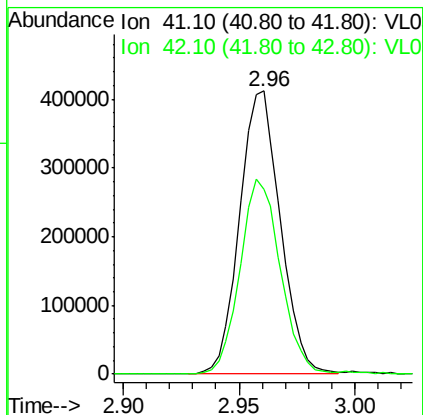
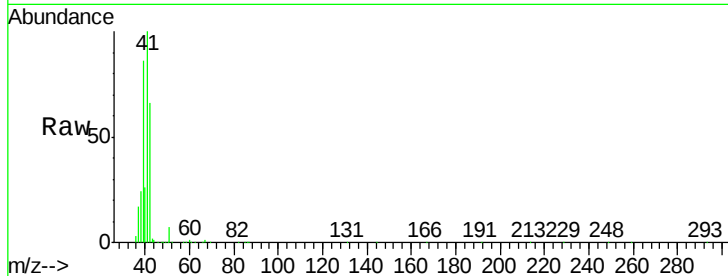
41 100

42 69.5 55.8 83.6

Manual Integrations  
APPROVED

MMDadoda

7/9/2020 12:01:40 PM



#10

Heptane

Concen: 11.255 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. -0.00 min

Lab File: VL035165.D

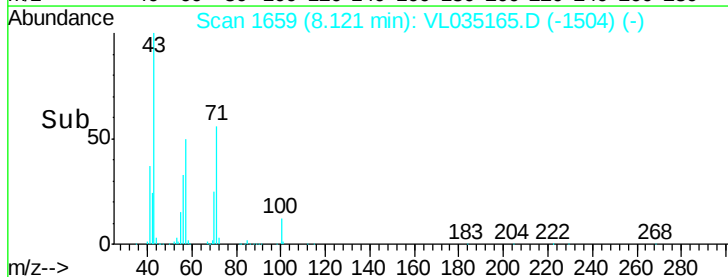
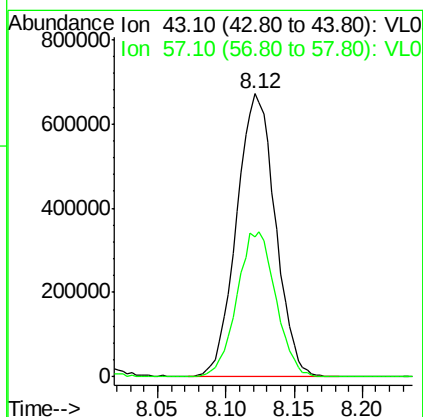
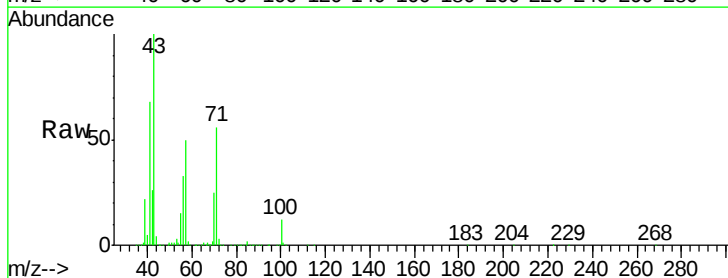
Acq: 7 Jul 2020 5:54

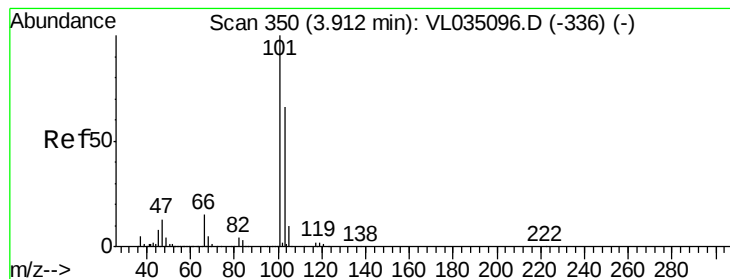
Tgt Ion: 43 Resp: 1321818

Ion Ratio Lower Upper

43 100

57 51.4 41.9 62.9





#11

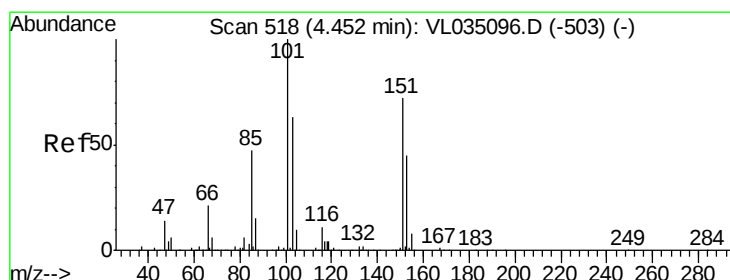
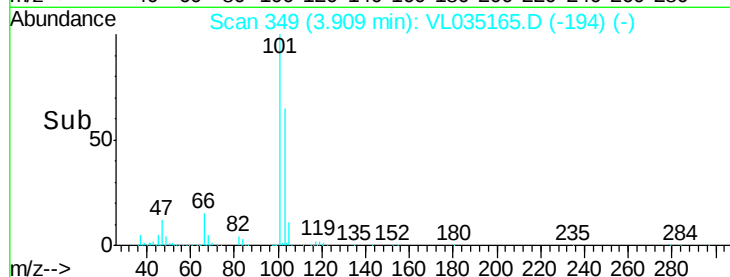
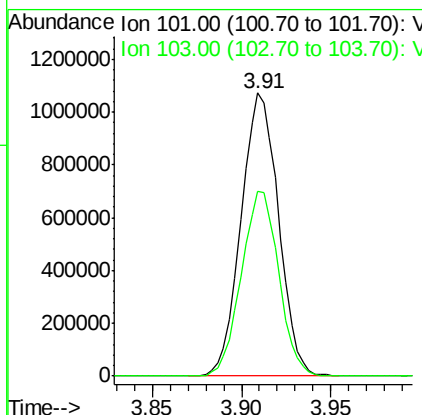
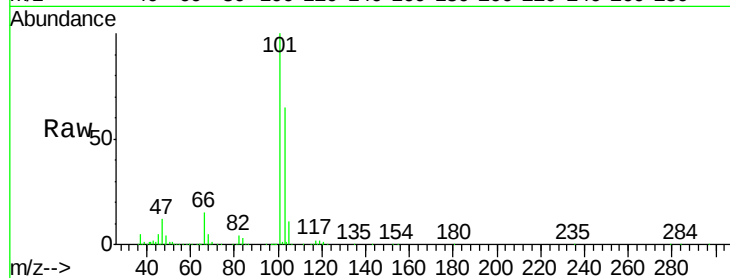
Trichlorofluoromethane  
 Concen: 10.481 ppbv  
 RT: 3.91 min Scan# 349  
 Delta R.T. -0.00 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0706ABS01

Tot Ion:101 Resp: 1566246  
 Ion Ratio Lower Upper  
 101 100  
 103 65.5 52.6 79.0

Manual Integrations  
 APPROVED

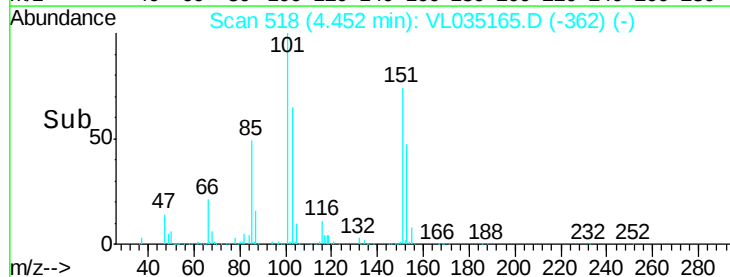
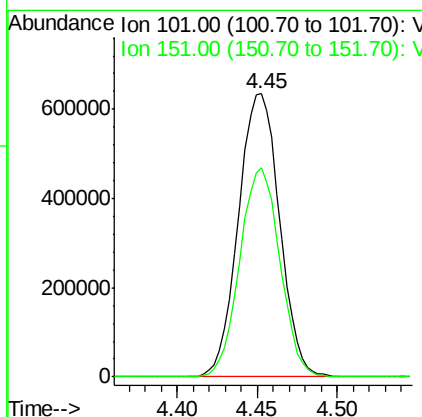
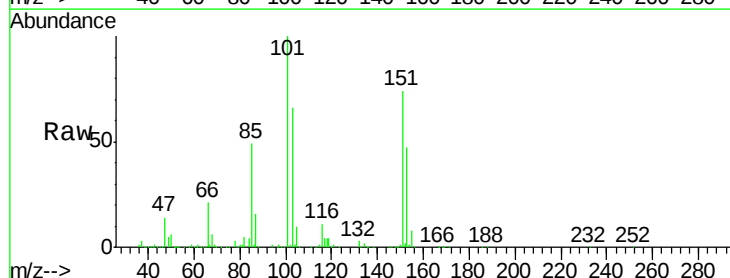
MMDadoda  
 7/9/2020 12:01:40 PM

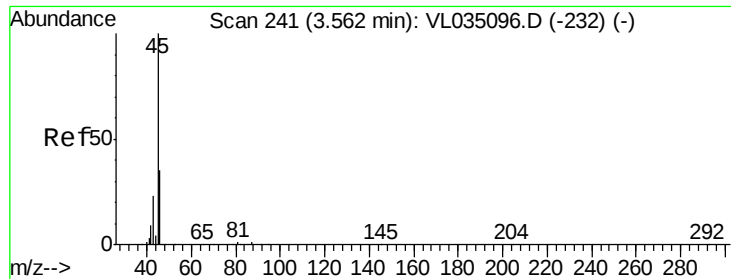


#12

1,1,2-Trichlorotrifluoroethane  
 Concen: 10.799 ppbv  
 RT: 4.45 min Scan# 518  
 Delta R.T. 0.00 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

Tgt Ion:101 Resp: 1115936  
 Ion Ratio Lower Upper  
 101 100  
 151 71.8 56.6 85.0





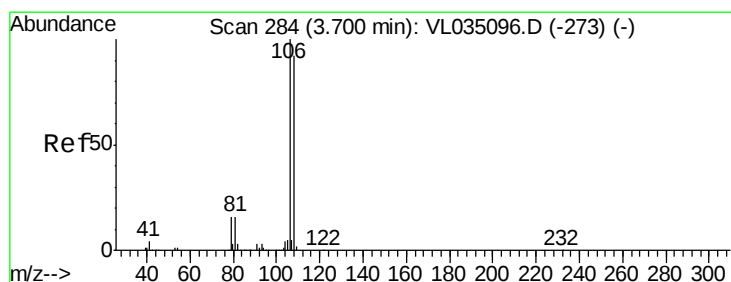
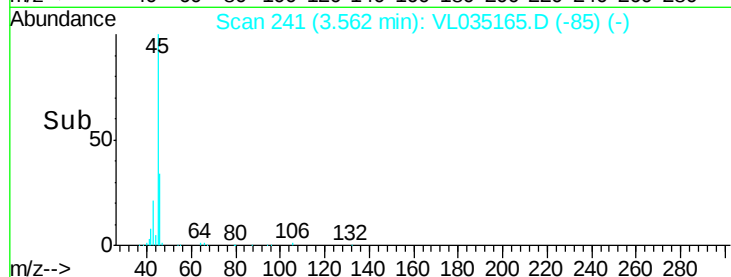
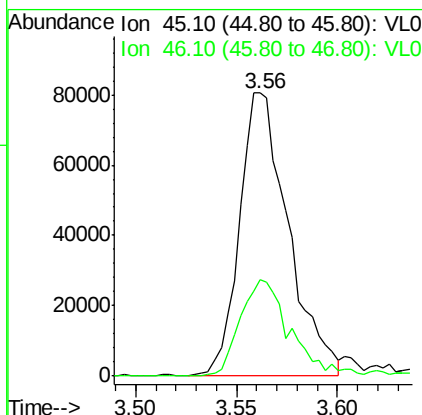
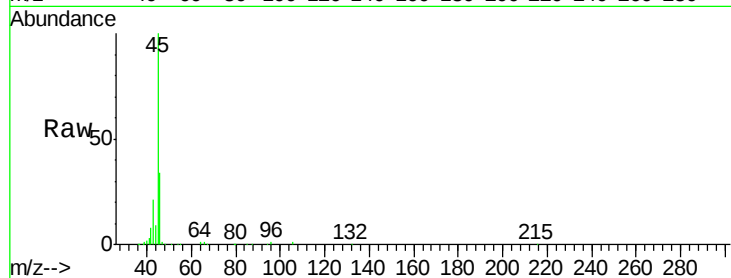
#13  
Ethanol  
Concen: 7.957 ppbv  
RT: 3.56 min Scan# 241  
Delta R.T. 0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0706ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 46      | 36.3  | 14.2  | 57.0  |

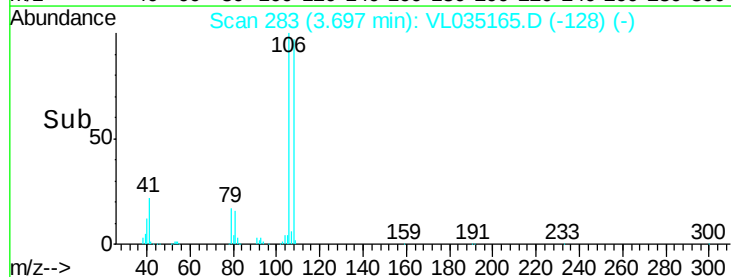
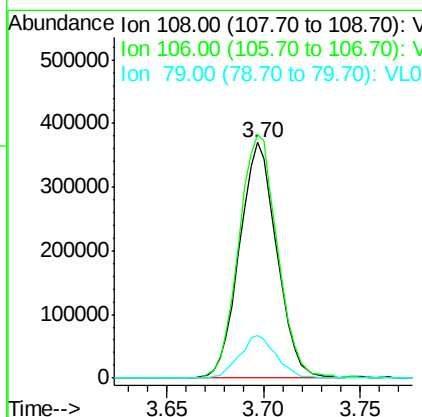
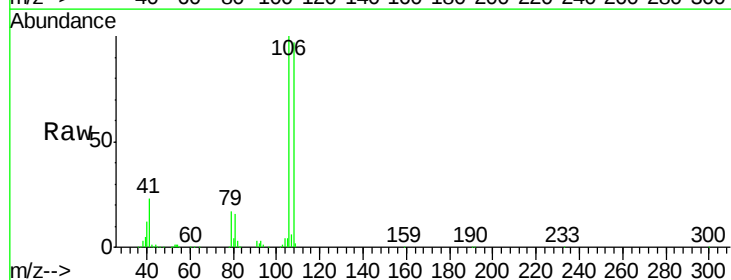
Manual Integrations  
APPROVED

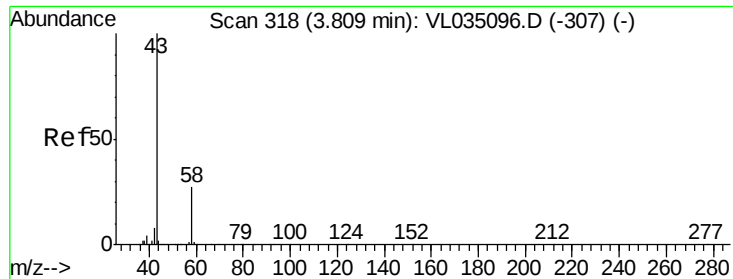
MMDadoda  
7/9/2020 12:01:40 PM



#14  
Bromoethene  
Concen: 11.147 ppbv  
RT: 3.70 min Scan# 283  
Delta R.T. -0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 108     | 100   |       |       |
| 106     | 107.7 | 84.4  | 126.6 |
| 79      | 18.0  | 14.2  | 21.2  |





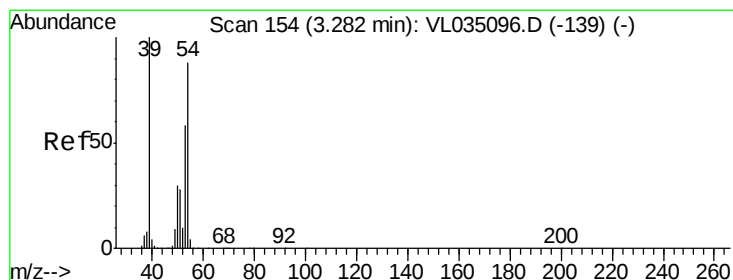
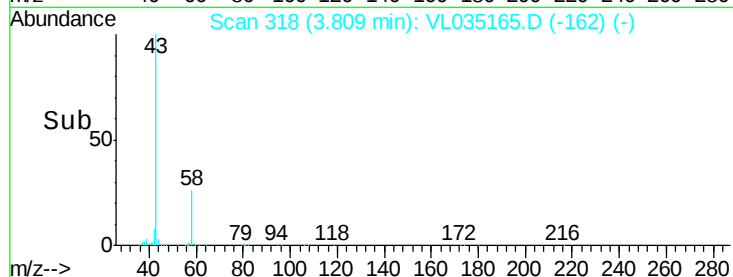
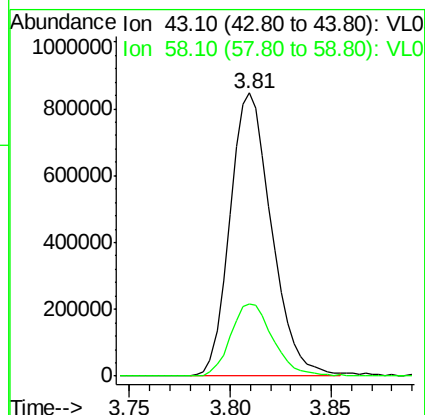
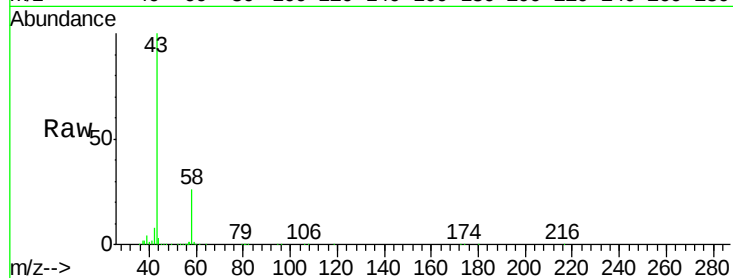
#15  
Acetone  
Concen: 9.751 ppbv  
RT: 3.81 min Scan# 318  
Delta R.T. 0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0706ABS01

Tot Ion: 43 Resp: 1221296  
Ion Ratio Lower Upper  
43 100  
58 26.2 21.8 32.6

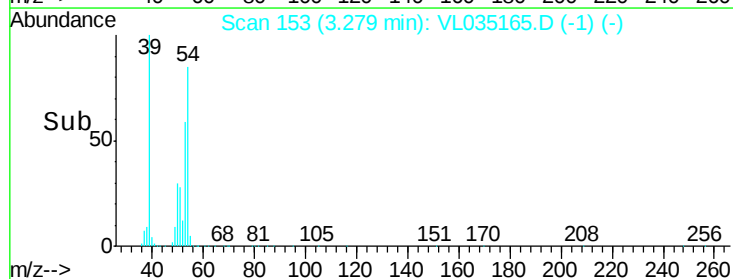
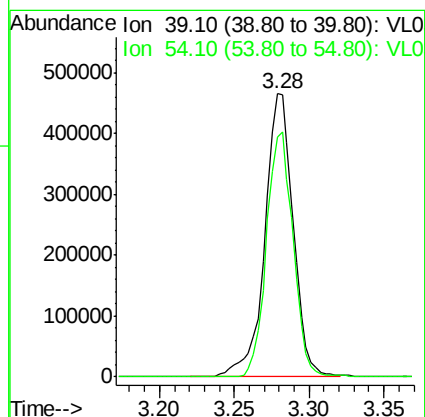
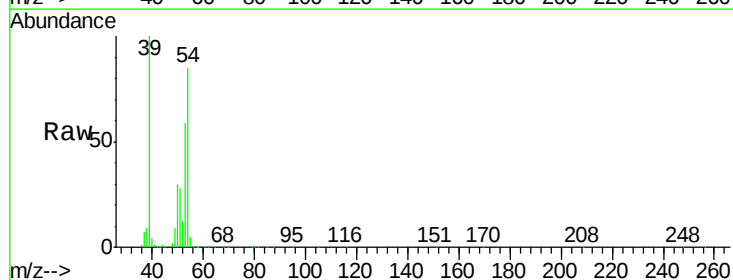
Manual Integrations  
APPROVED

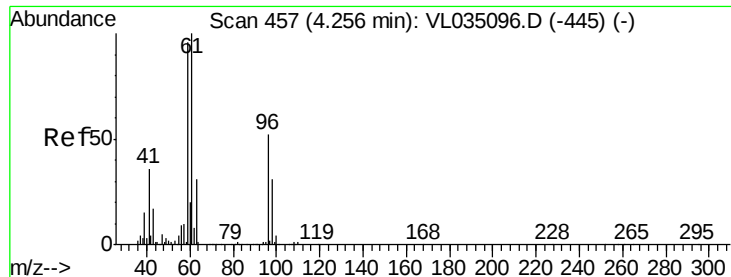
MMDadoda  
7/9/2020 12:01:40 PM



#16  
1,3-Butadiene  
Concen: 11.154 ppbv  
RT: 3.28 min Scan# 153  
Delta R.T. -0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

Tgt Ion: 39 Resp: 612732  
Ion Ratio Lower Upper  
39 100  
54 81.8 67.0 100.4





#17

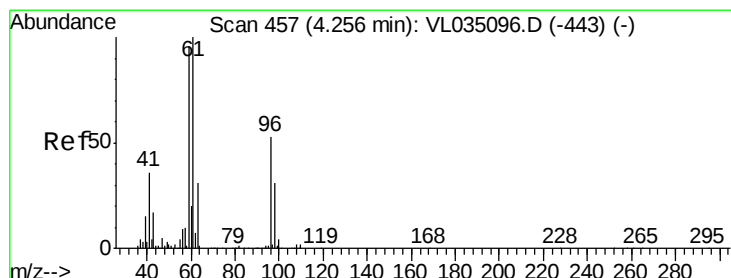
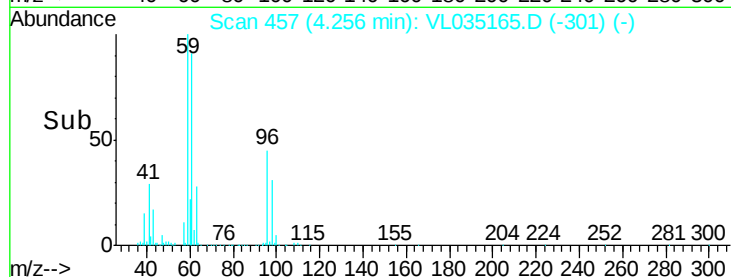
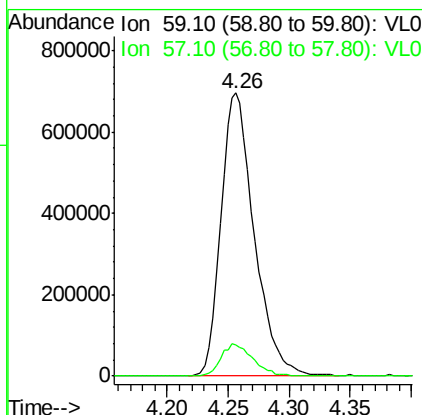
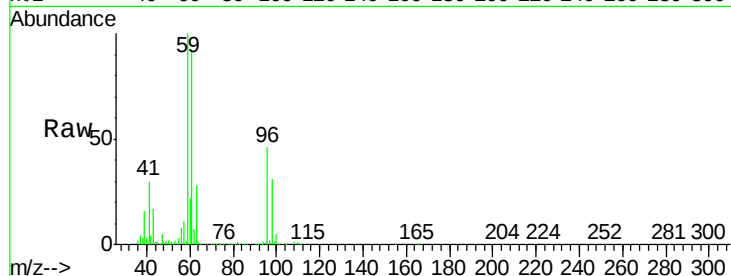
tert-Butyl alcohol  
Concen: 11.961 ppbv  
RT: 4.26 min Scan# 457  
Delta R.T. 0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0706ABS01

Tot Ion: 59 Resp: 1327657  
Ion Ratio Lower Upper  
59 100  
57 11.1 8.6 12.8

Manual Integrations  
APPROVED

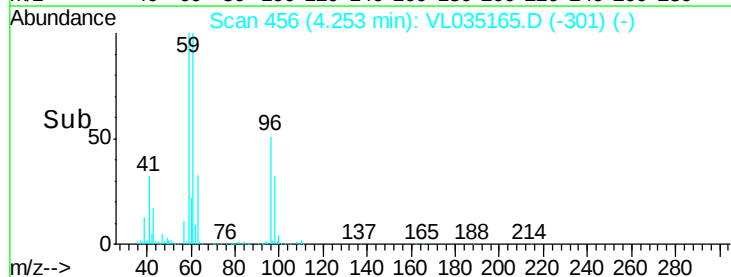
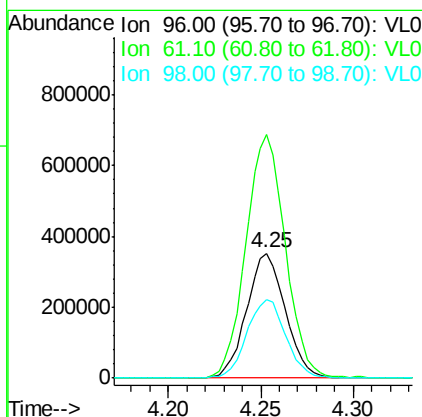
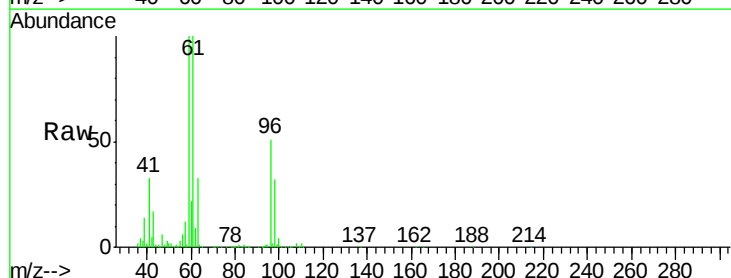
MMDadoda  
7/9/2020 12:01:40 PM

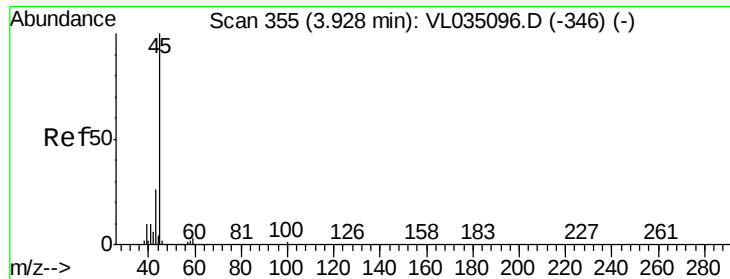


#18

1,1-Dichloroethene  
Concen: 11.010 ppbv  
RT: 4.25 min Scan# 456  
Delta R.T. -0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

Tgt Ion: 96 Resp: 513137  
Ion Ratio Lower Upper  
96 100  
61 195.2 152.2 228.4  
98 62.6 47.7 71.5





#19

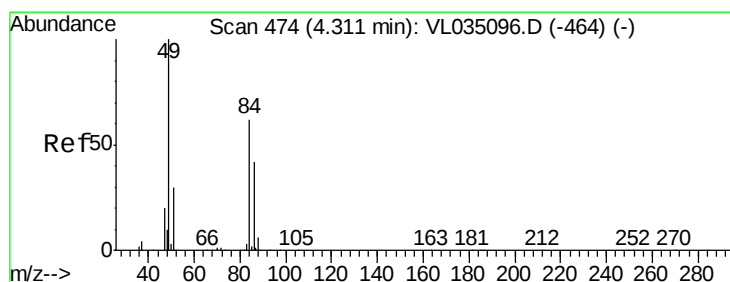
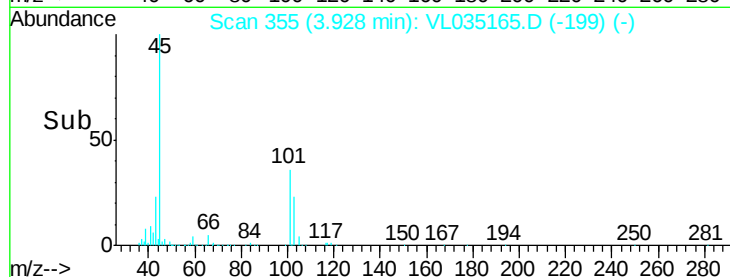
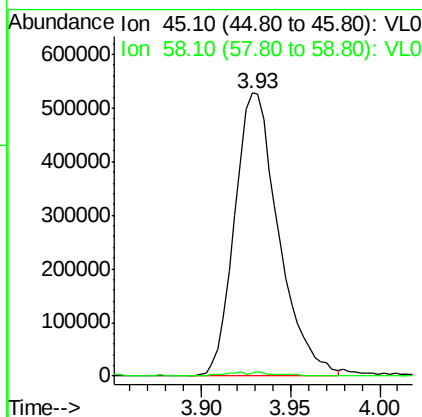
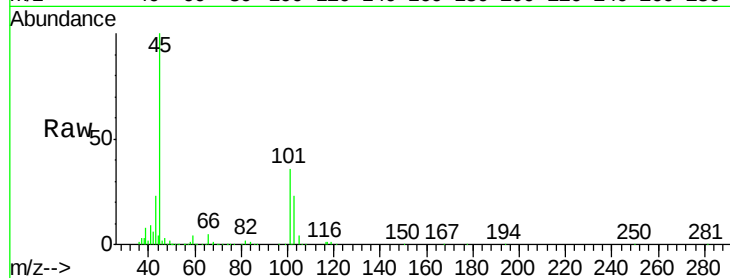
Isopropyl Alcohol  
 Concen: 11.171 ppbv  
 RT: 3.93 min Scan# 355  
 Delta R.T. 0.00 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0706ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 58      | 2.0   | 1.8   | 2.8   |

Manual Integrations  
 APPROVED

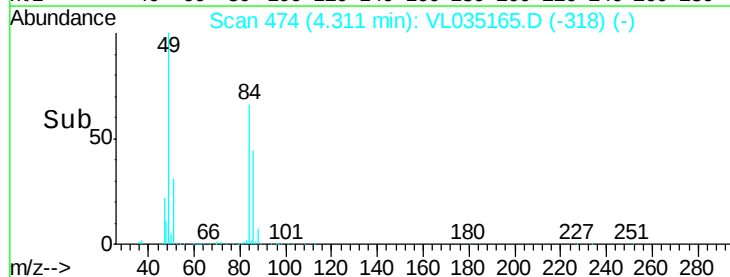
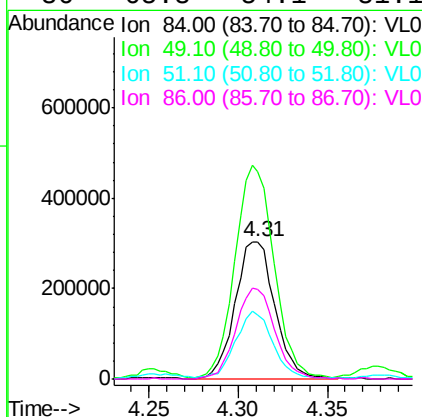
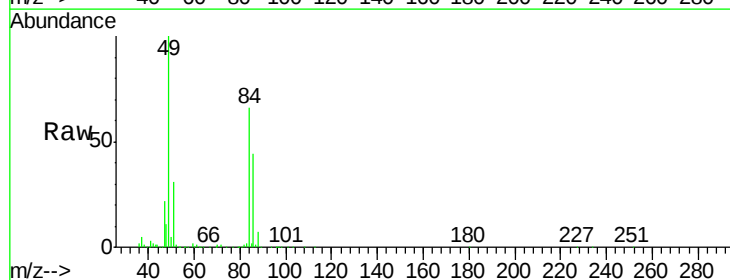
MMDadoda  
 7/9/2020 12:01:40 PM

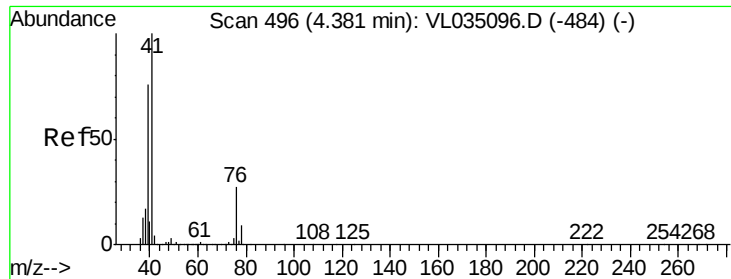


#20

Methylene Chloride  
 Concen: 9.252 ppbv  
 RT: 4.31 min Scan# 474  
 Delta R.T. 0.00 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 150.2 | 128.8 | 193.2 |
| 51      | 46.1  | 38.7  | 58.1  |
| 86      | 65.8  | 54.1  | 81.1  |





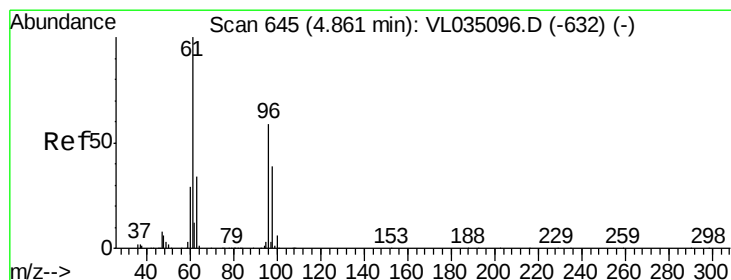
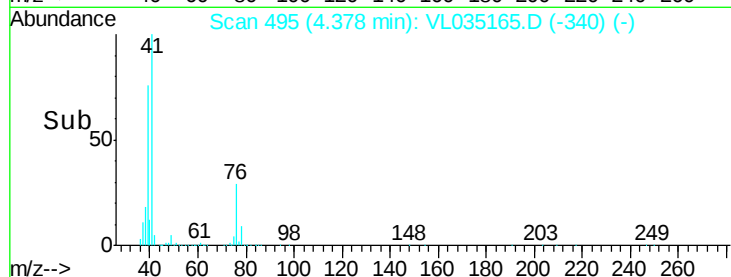
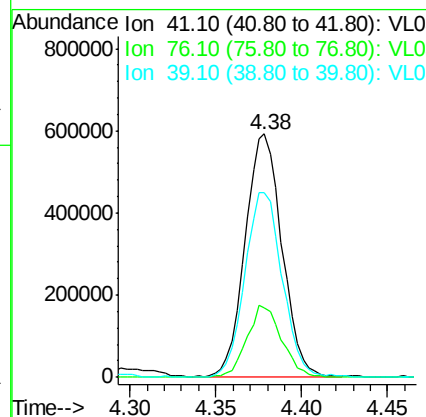
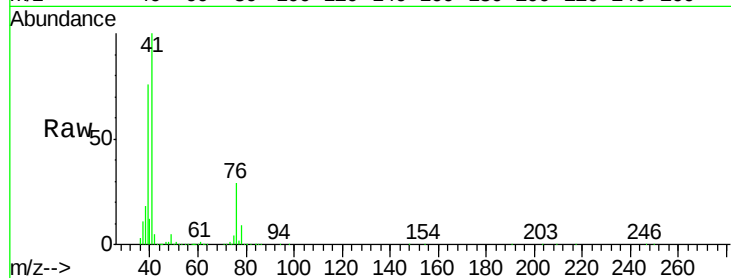
#21  
Allvl Chloride  
Concen: 11.780 ppbv  
RT: 4.38 min Scan# 495  
Delta R.T. -0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0706ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 76      | 28.2  | 22.6  | 34.0  |
| 39      | 77.6  | 61.6  | 92.4  |

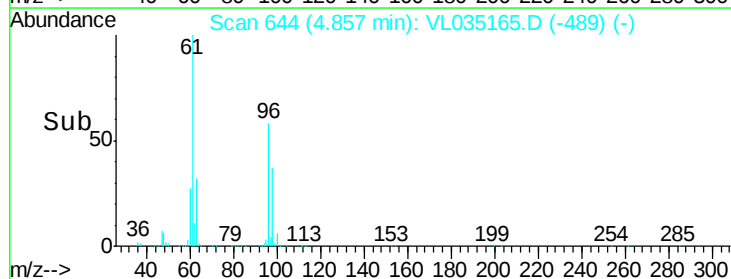
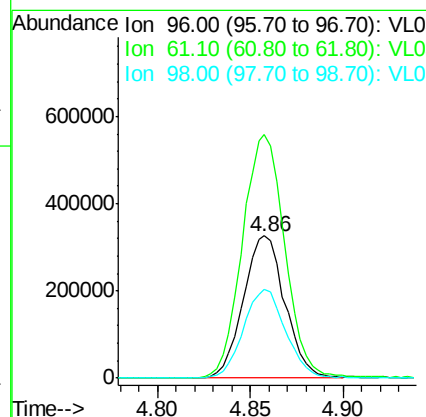
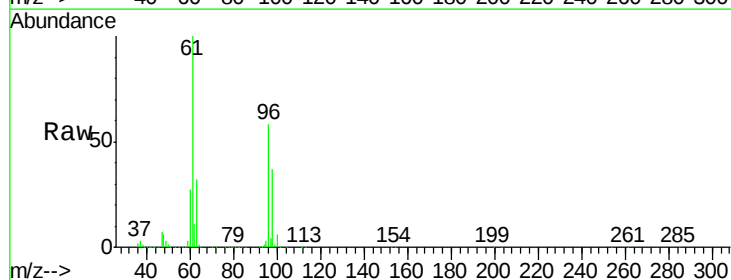
Manual Integrations  
APPROVED

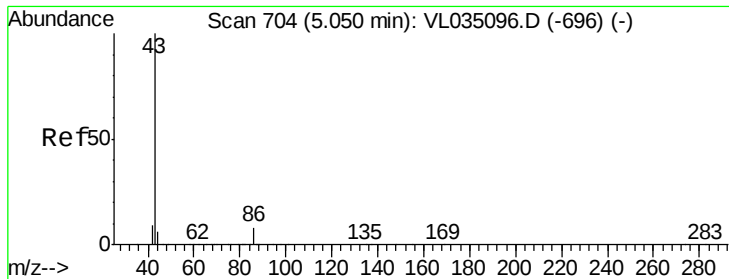
MMDadoda  
7/9/2020 12:01:40 PM



#22  
trans-1,2-Dichloroethene  
Concen: 11.662 ppbv  
RT: 4.86 min Scan# 644  
Delta R.T. -0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 171.1 | 134.5 | 201.7 |
| 98      | 62.5  | 52.6  | 79.0  |





#23

Vinyl Acetate

Concen: 11.717 ppbv

RT: 5.05 min Scan# 703

Delta R.T. -0.00 min

Lab File: VL035165.D

Acq: 7 Jul 2020 5:54

Instrument :

MSVOA\_L

ClientSampleId :

VL0706ABS01

Tot Ion: 43 Resp: 1781293

Ion Ratio Lower Upper

43 100

86 7.5 6.2 9.2

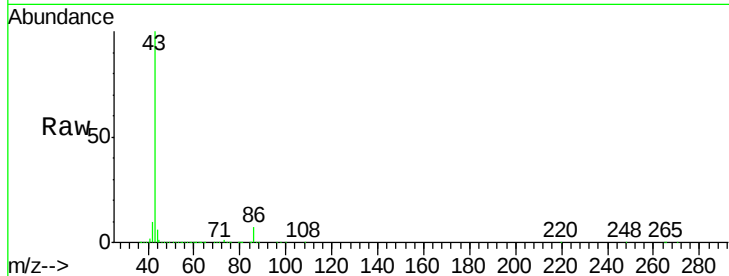
42 10.2 8.1 12.1

44 5.8 4.6 7.0

Manual Integrations  
APPROVED

MMDadoda

7/9/2020 12:01:40 PM

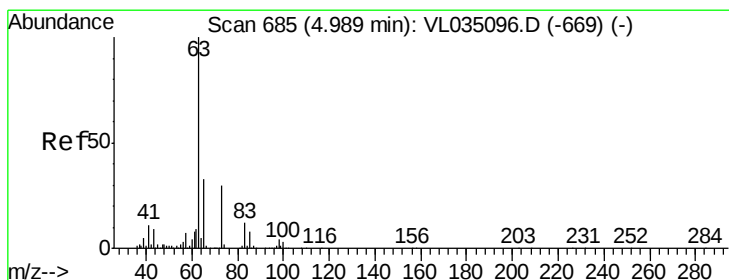
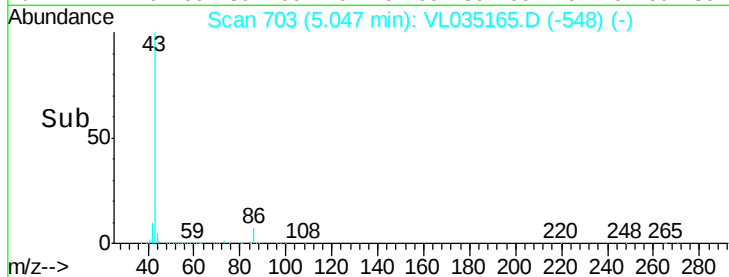
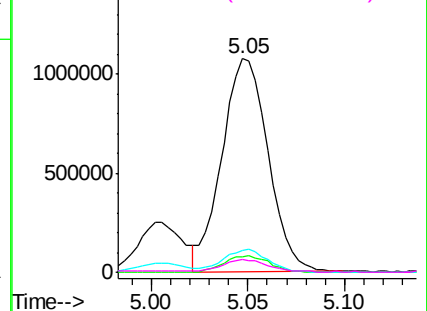


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.554 ppbv

RT: 4.98 min Scan# 683

Delta R.T. -0.01 min

Lab File: VL035165.D

Acq: 7 Jul 2020 5:54

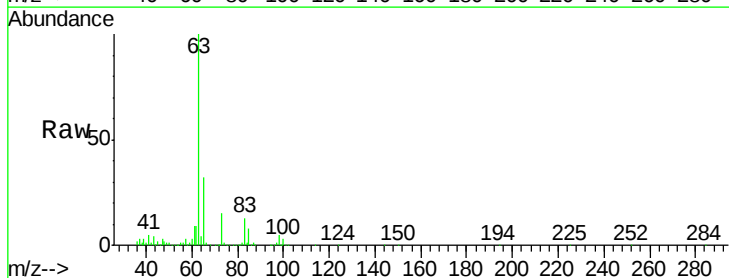
Tgt Ion: 63 Resp: 1352753

Ion Ratio Lower Upper

63 100

98 4.9 2.3 6.9

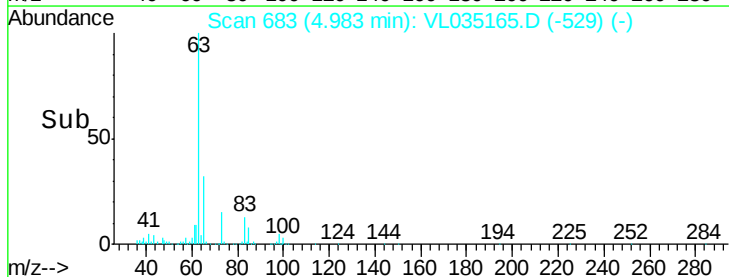
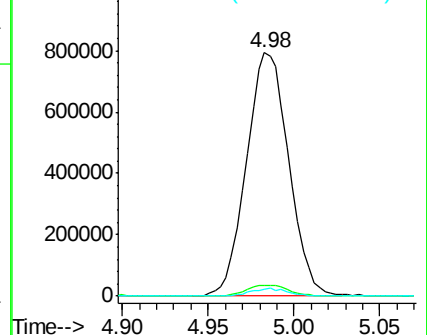
100 2.6 1.4 4.0

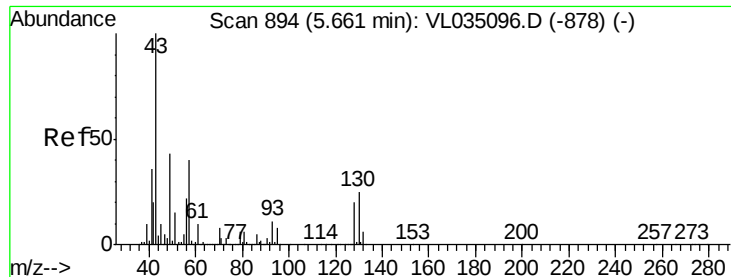


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





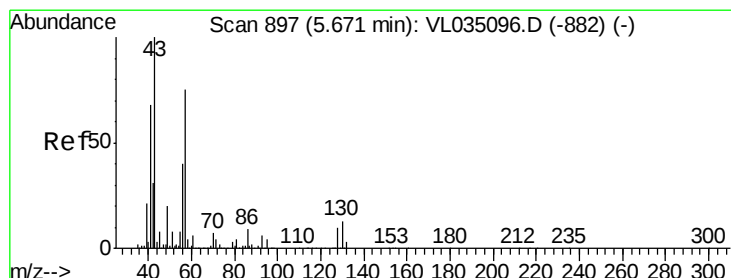
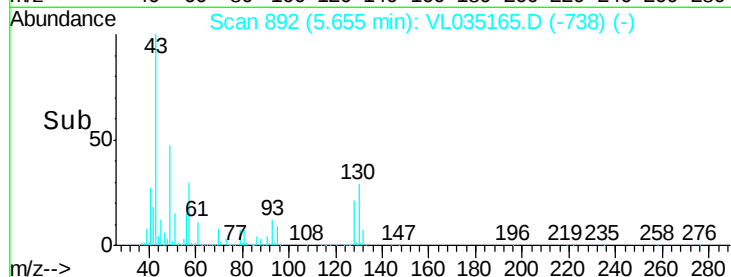
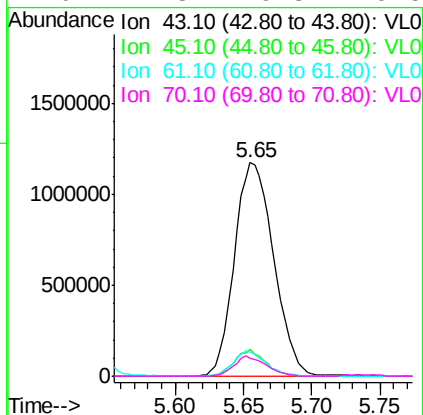
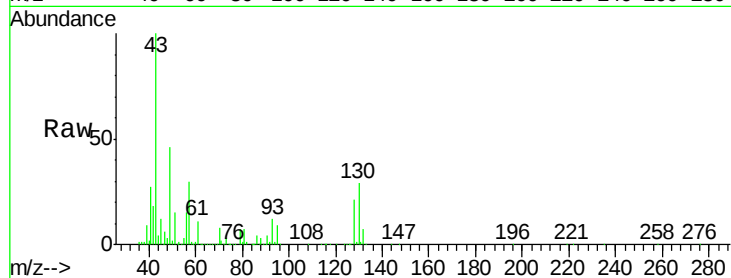
#25  
Ethyl Acetate  
Concen: 10.373 ppbv  
RT: 5.65 min Scan# 892  
Delta R.T. -0.01 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0706ABS01

| Tot Ion: | 43    | Resp: | 2344788 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 43       | 100   |       |         |
| 45       | 10.1  | 8.4   | 12.6    |
| 61       | 9.8   | 8.0   | 12.0    |
| 70       | 7.8   | 6.3   | 9.5     |

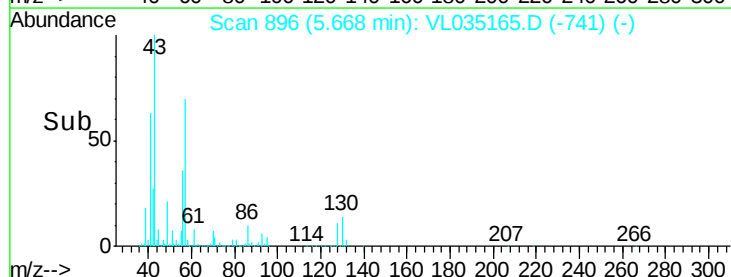
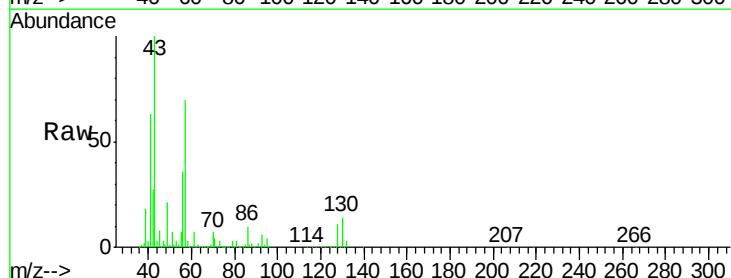
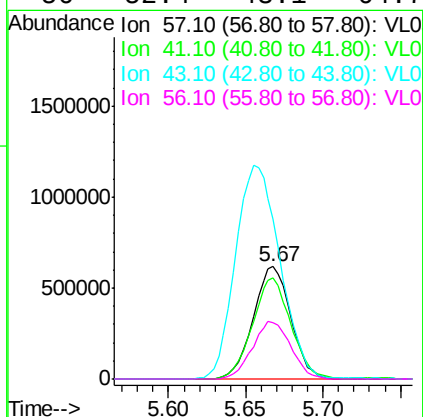
Manual Integrations  
APPROVED

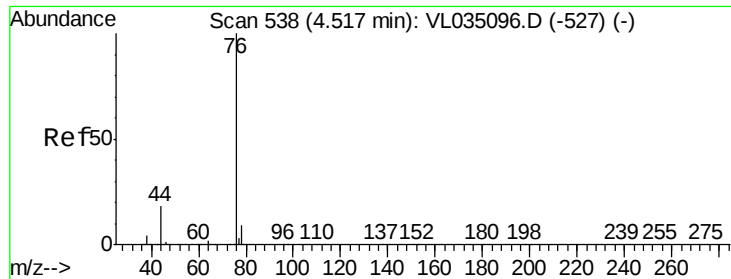
MMDadoda  
7/9/2020 12:01:40 PM



#26  
Hexane  
Concen: 10.253 ppbv  
RT: 5.67 min Scan# 896  
Delta R.T. -0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

| Tgt Ion: | 57    | Resp: | 1044934 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 57       | 100   |       |         |
| 41       | 92.9  | 72.9  | 109.3   |
| 43       | 224.9 | 181.3 | 271.9   |
| 56       | 52.4  | 43.1  | 64.7    |





#27

Carbon Disulfide

Concen: 13.694 ppbv

RT: 4.52 min Scan# 538

Delta R.T. 0.00 min

Lab File: VL035165.D

Acq: 7 Jul 2020 5:54

Instrument :

MSVOA\_L

ClientSampleId :

VL0706ABS01

Tot Ion: 76 Resp: 1444204

Ion Ratio Lower Upper

76 100

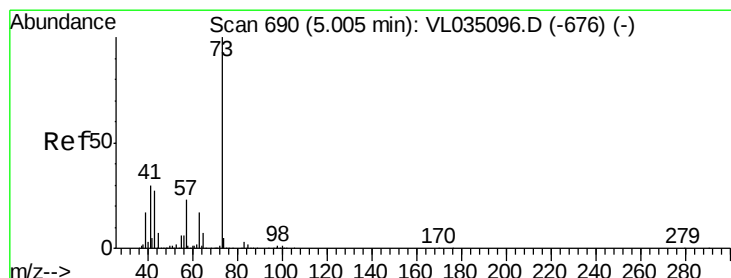
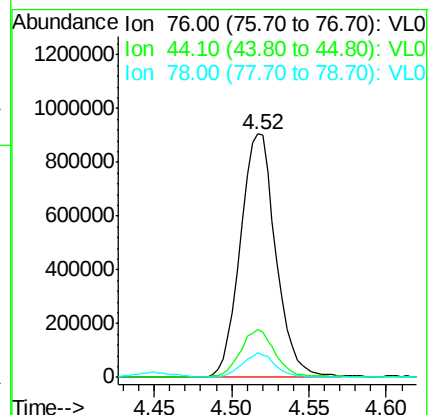
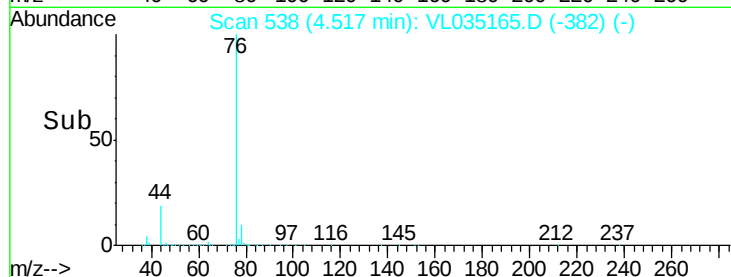
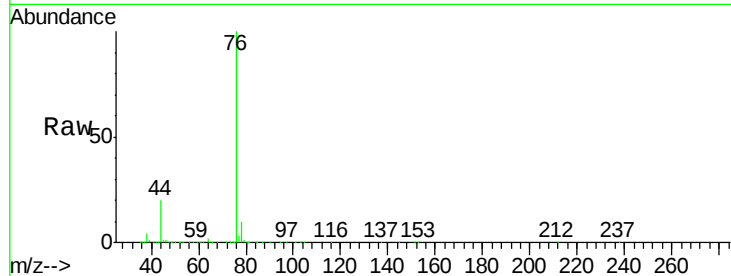
44 19.0 15.8 23.8

78 9.3 7.6 11.4

Manual Integrations  
APPROVED

MMDadoda

7/9/2020 12:01:40 PM



#28

Methyl tert-Butyl Ether

Concen: 11.418 ppbv

RT: 5.00 min Scan# 689

Delta R.T. -0.00 min

Lab File: VL035165.D

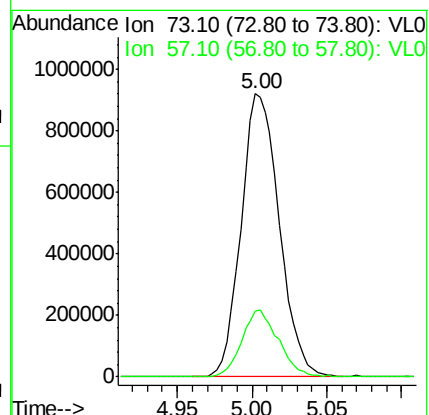
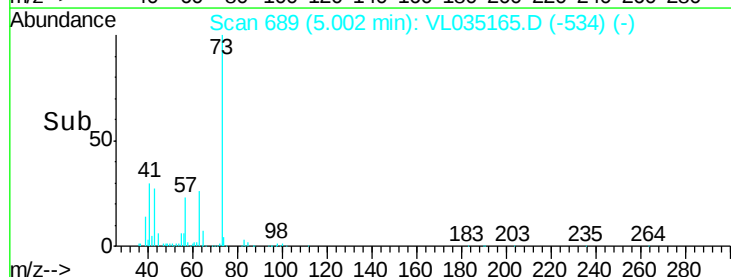
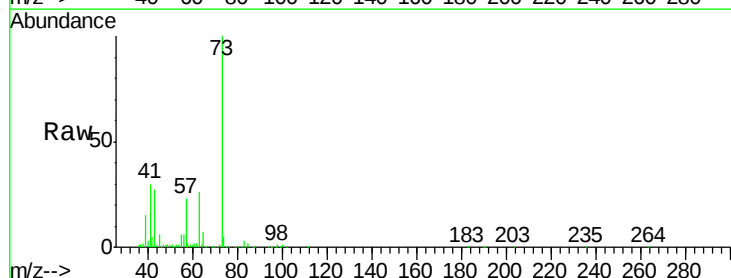
Acq: 7 Jul 2020 5:54

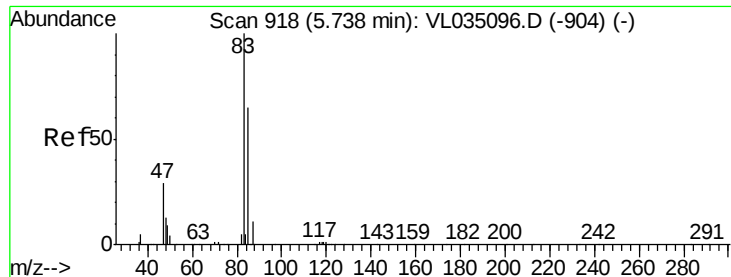
Tgt Ion: 73 Resp: 1634993

Ion Ratio Lower Upper

73 100

57 22.9 18.5 27.7





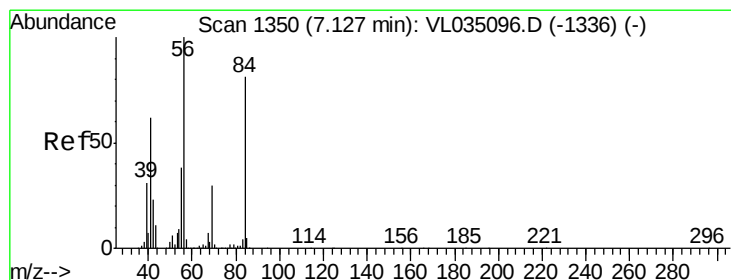
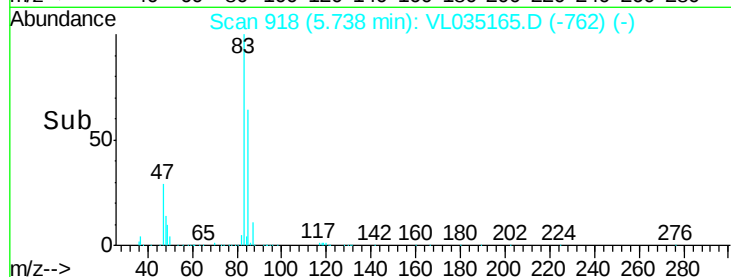
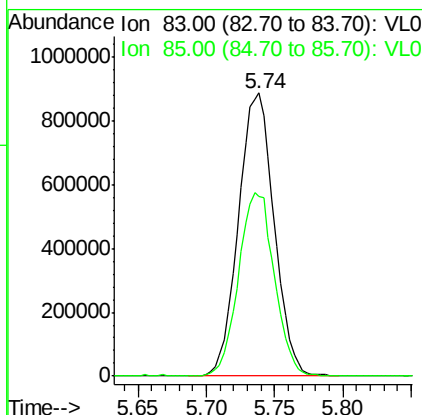
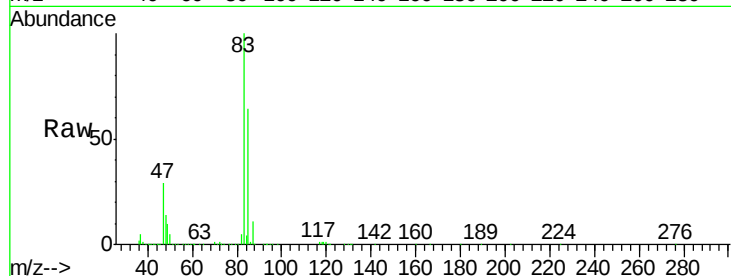
#29  
Chloroform  
Concen: 10.078 ppbv  
RT: 5.74 min Scan# 918  
Delta R.T. 0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0706ABS01

Tot Ion: 83 Resp: 1607332  
Ion Ratio Lower Upper  
83 100  
85 63.4 52.1 78.1

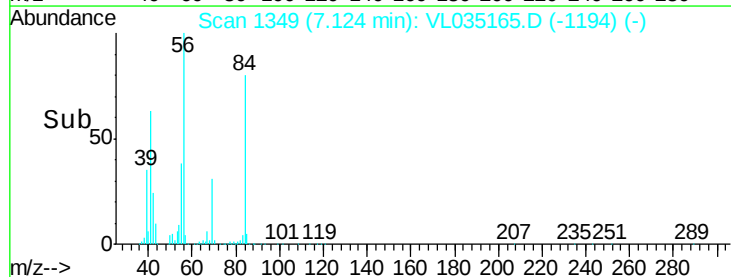
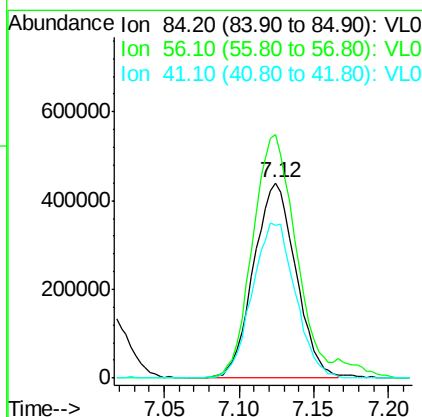
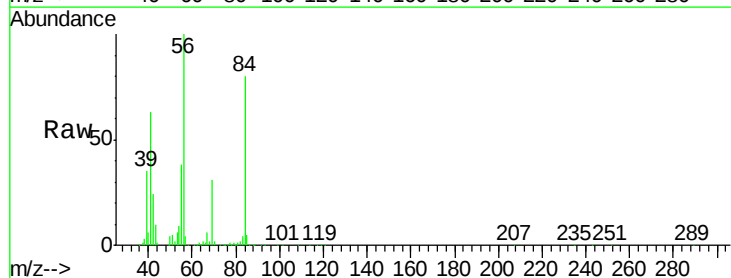
Manual Integrations  
APPROVED

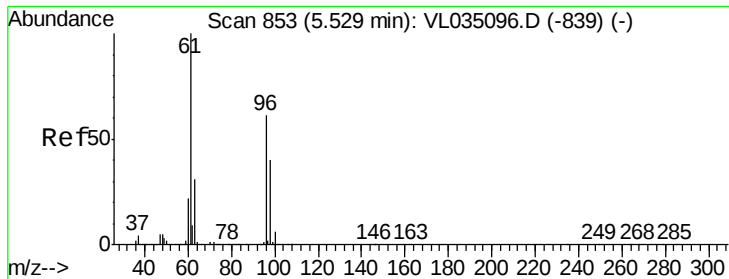
MMDadoda  
7/9/2020 12:01:40 PM



#30  
Cyclohexane  
Concen: 11.788 ppbv  
RT: 7.12 min Scan# 1349  
Delta R.T. -0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

Tgt Ion: 84 Resp: 862187  
Ion Ratio Lower Upper  
84 100  
56 133.4 108.0 162.0  
41 81.7 65.6 98.4





#31

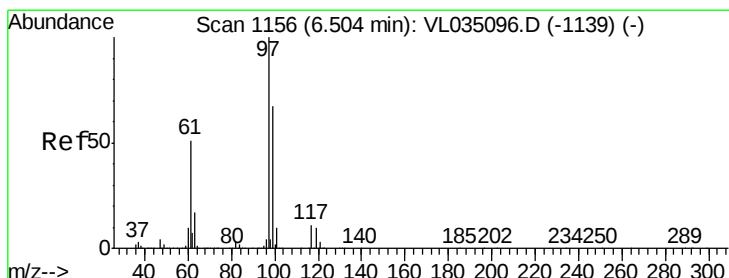
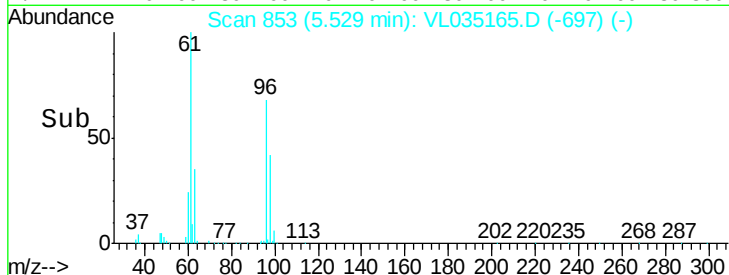
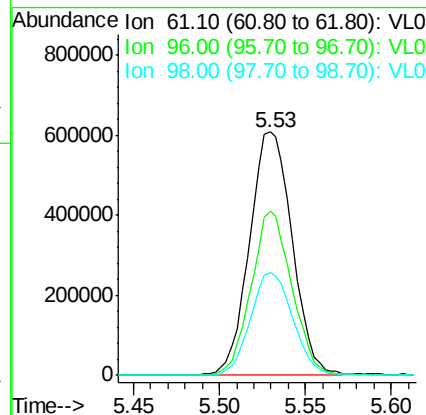
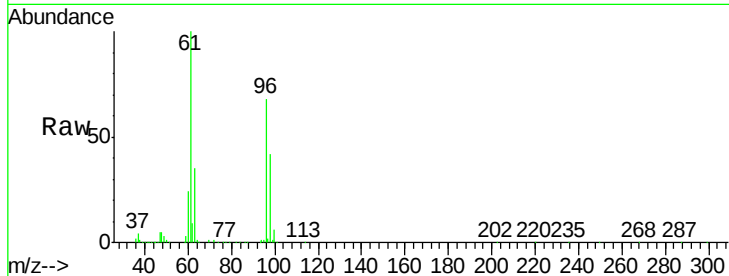
cis-1,2-Dichloroethene  
 Concen: 11.132 ppbv  
 RT: 5.53 min Scan# 853  
 Delta R.T. 0.00 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0706ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 67.6  | 48.8  | 73.2  |
| 98      | 42.1  | 31.9  | 47.9  |

Manual Integrations  
 APPROVED

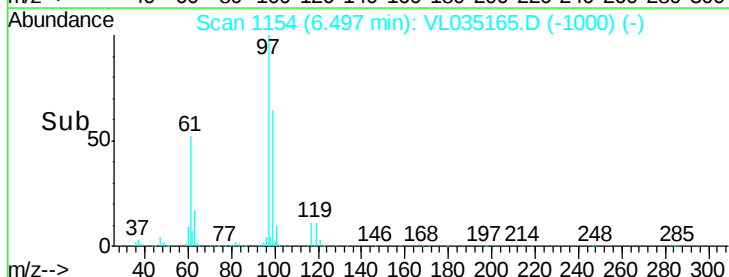
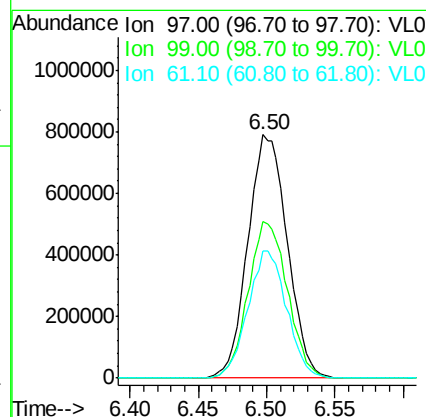
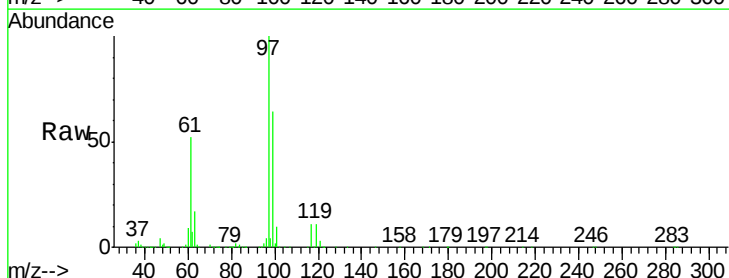
MMDadoda  
 7/9/2020 12:01:40 PM

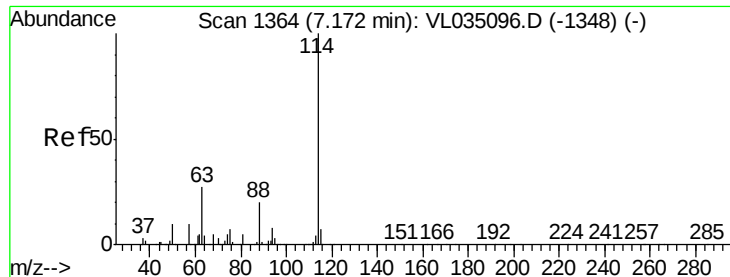


#32

1,1,1-Trichloroethane  
 Concen: 10.731 ppbv  
 RT: 6.50 min Scan# 1154  
 Delta R.T. -0.01 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 64.1  | 52.0  | 78.0  |
| 61      | 51.6  | 41.0  | 61.6  |





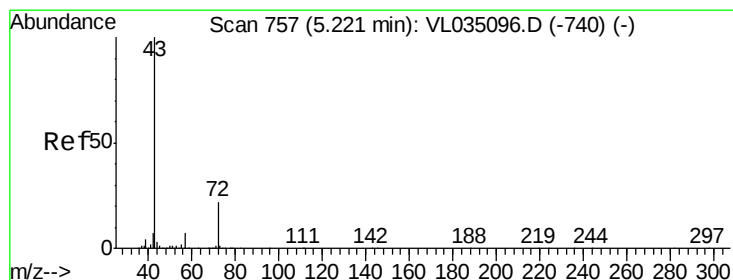
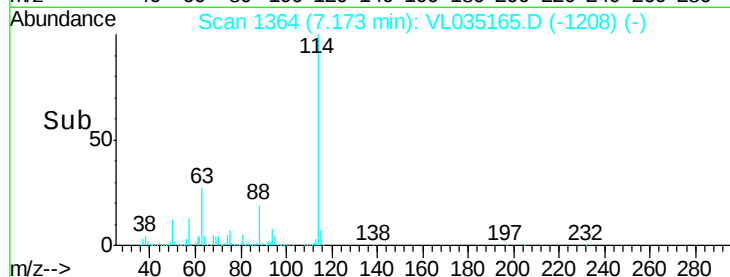
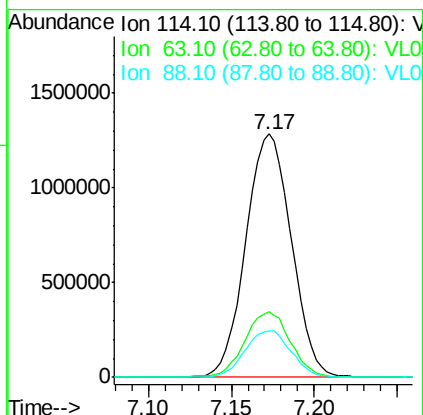
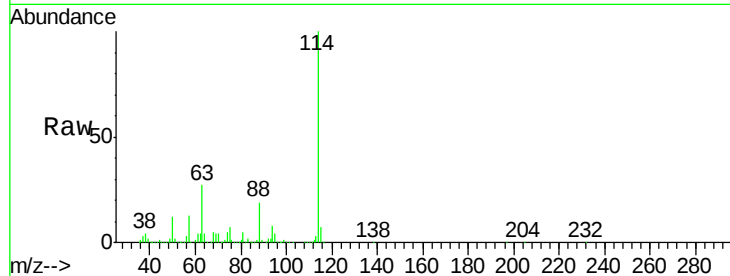
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.17 min Scan# 1364  
 Delta R.T. 0.00 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0706ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 27.3  | 21.9  | 32.9  |
| 88      | 19.4  | 15.6  | 23.4  |

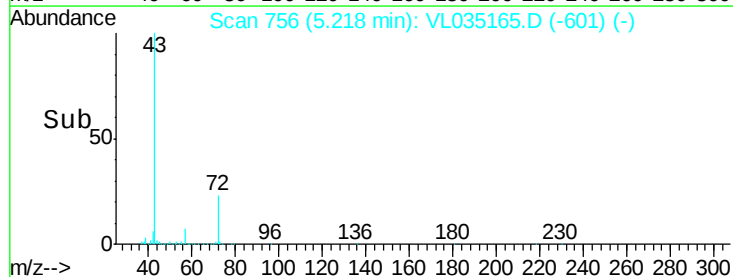
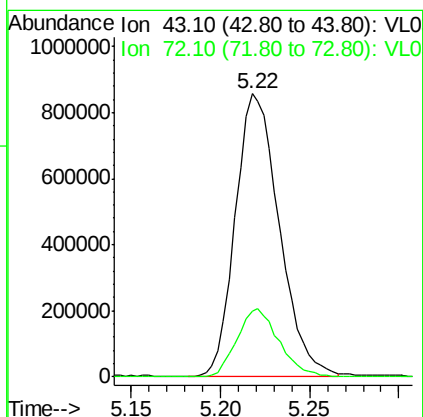
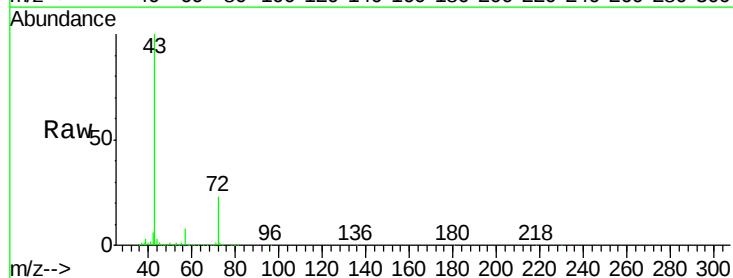
Manual Integrations  
 APPROVED

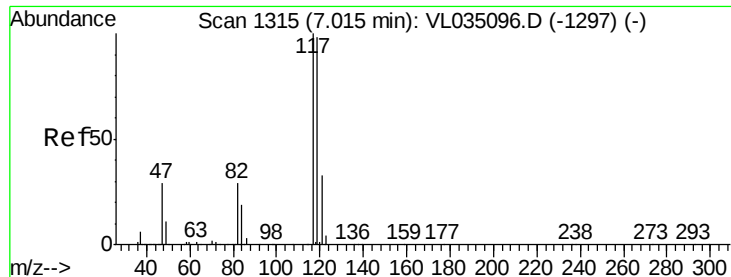
MMDadoda  
 7/9/2020 12:01:40 PM



#34  
 2-Butanone  
 Concen: 10.458 ppbv  
 RT: 5.22 min Scan# 756  
 Delta R.T. -0.00 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 23.2  | 18.3  | 27.5  |





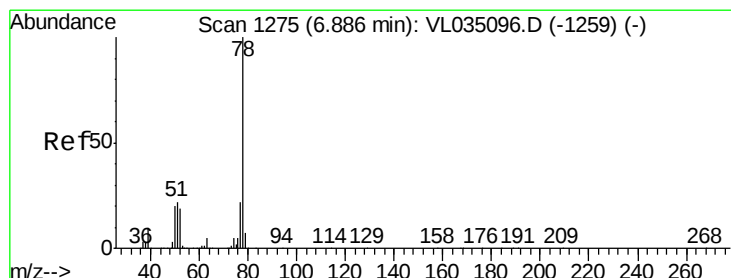
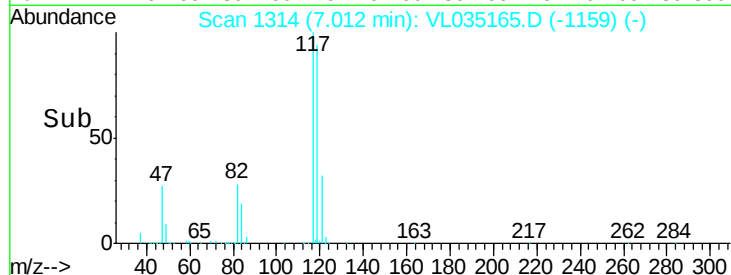
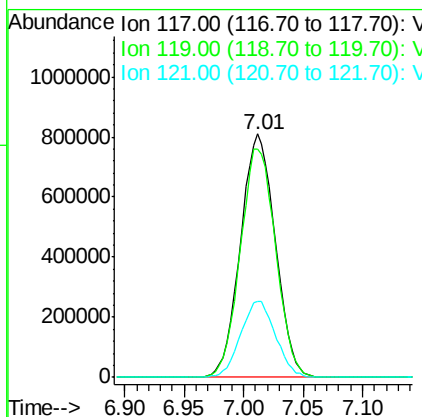
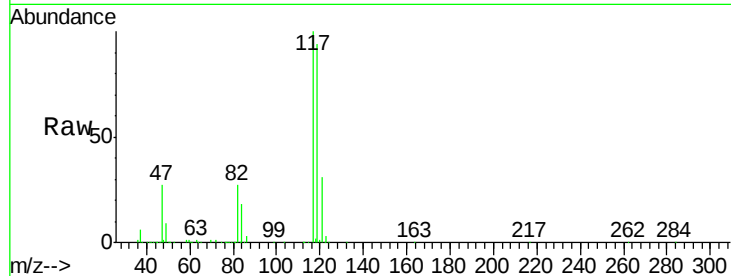
#35  
Carbon Tetrachloride  
Concen: 11.151 ppbv  
RT: 7.01 min Scan# 1314  
Delta R.T. -0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0706ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 94.0  | 78.3  | 117.5 |
| 121     | 31.2  | 26.0  | 39.0  |

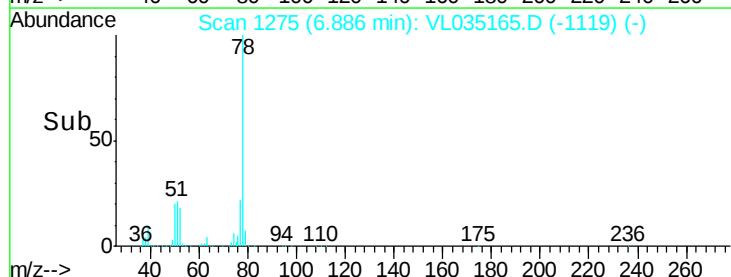
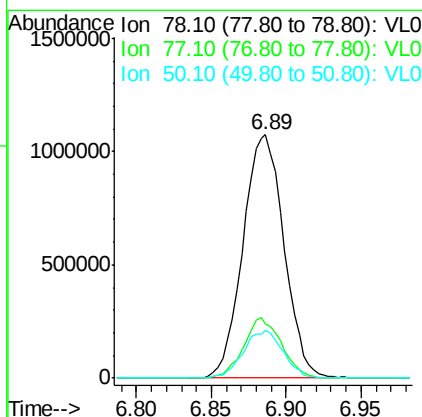
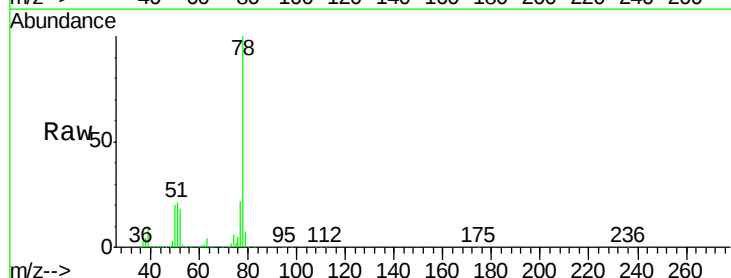
Manual Integrations  
APPROVED

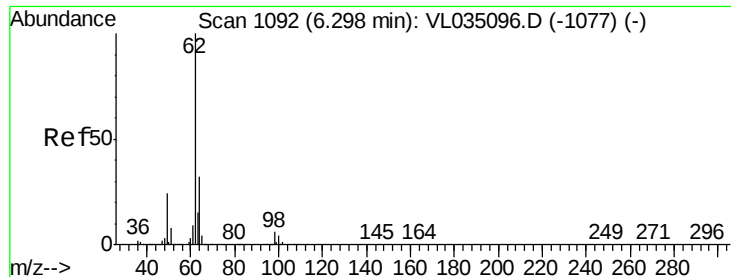
MMDadoda  
7/9/2020 12:01:40 PM



#36  
Benzene  
Concen: 10.780 ppbv  
RT: 6.89 min Scan# 1275  
Delta R.T. 0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 22.4  | 17.8  | 26.6  |
| 50      | 19.8  | 16.2  | 24.2  |





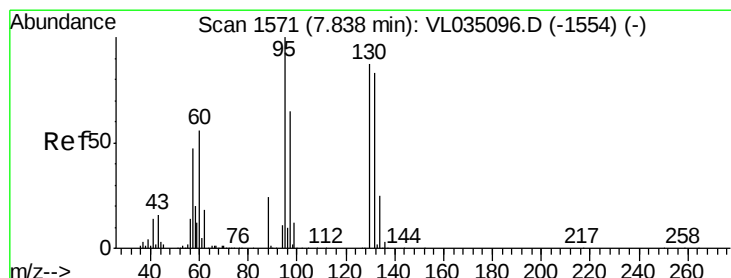
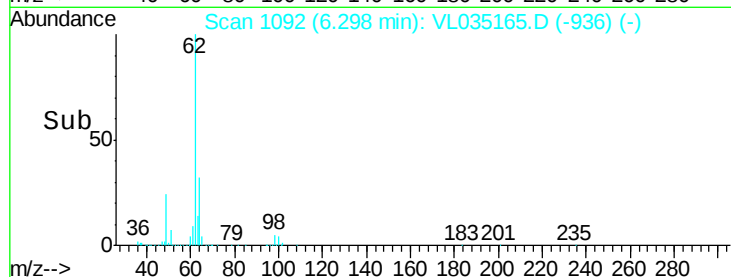
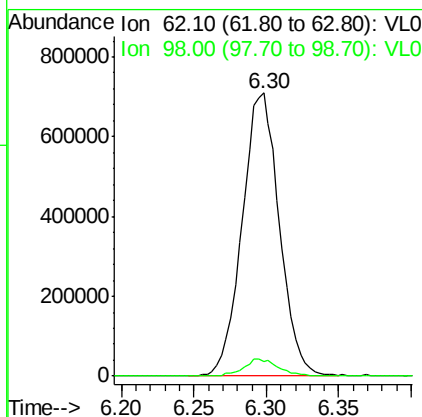
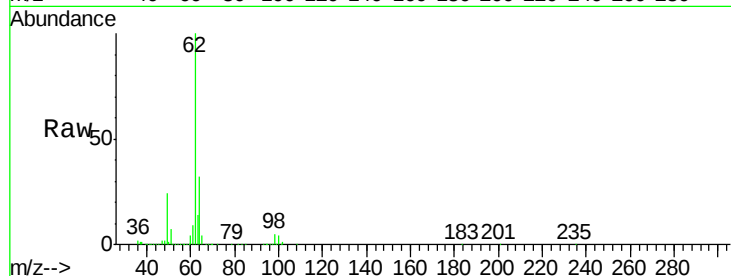
#37  
 1,2-Dichloroethane  
 Concen: 10.567 ppbv  
 RT: 6.30 min Scan# 1092  
 Delta R.T. 0.00 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0706ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 98      | 5.7   | 4.8   | 7.2   |

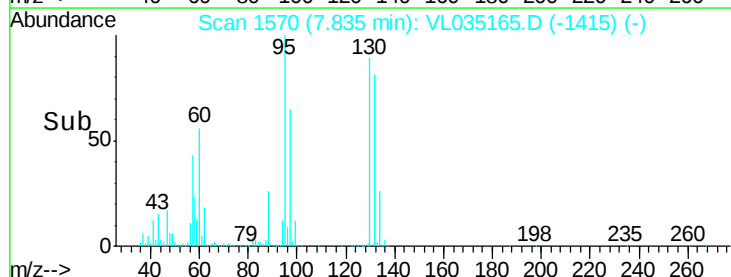
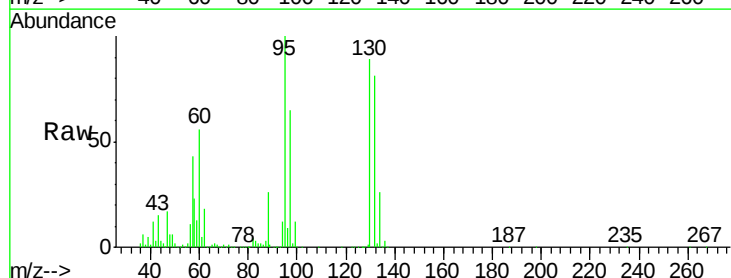
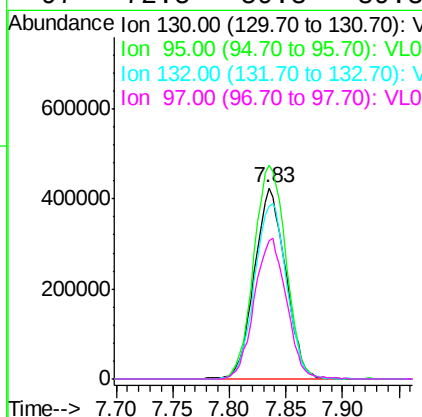
Manual Integrations  
 APPROVED

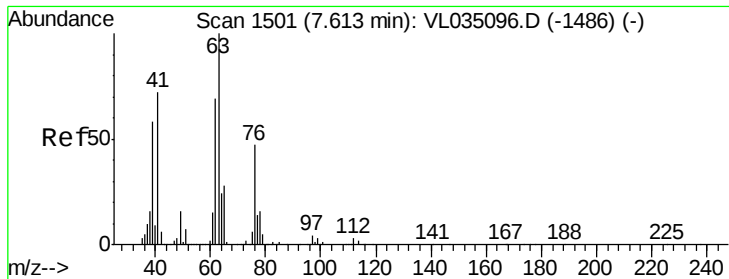
MMDadoda  
 7/9/2020 12:01:40 PM



#38  
 Trichloroethene  
 Concen: 11.013 ppbv  
 RT: 7.83 min Scan# 1570  
 Delta R.T. -0.00 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 111.9 | 91.4  | 137.2 |
| 132     | 90.8  | 75.8  | 113.6 |
| 97      | 72.5  | 59.8  | 89.8  |





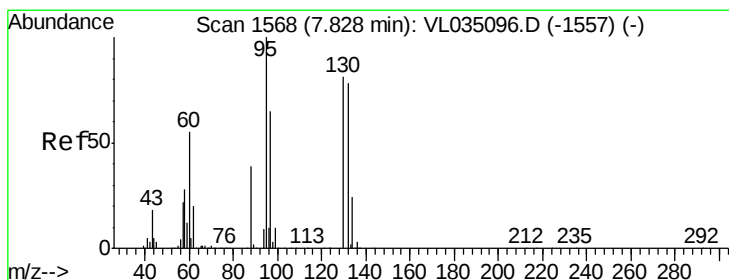
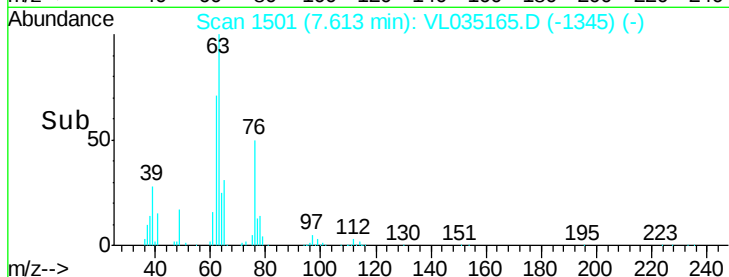
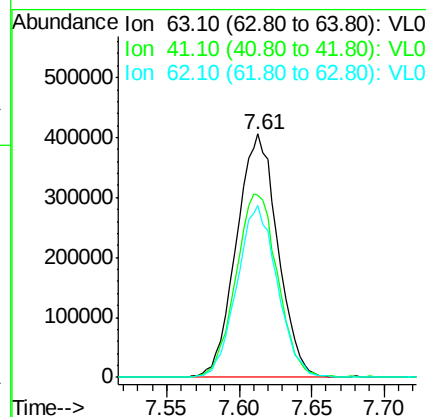
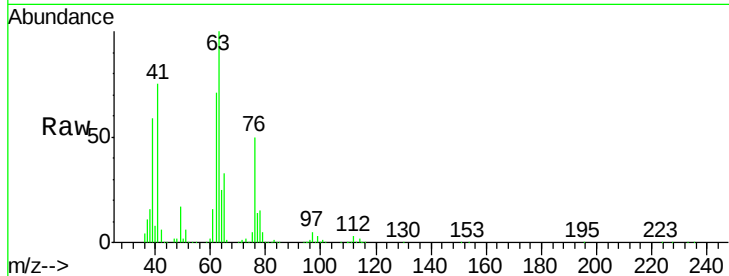
#39  
 1,2-Dichloropropane  
 Concen: 10.773 ppbv  
 RT: 7.61 min Scan# 1501  
 Delta R.T. 0.00 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0706ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 74.6  | 58.0  | 87.0  |
| 62      | 70.5  | 55.4  | 83.0  |

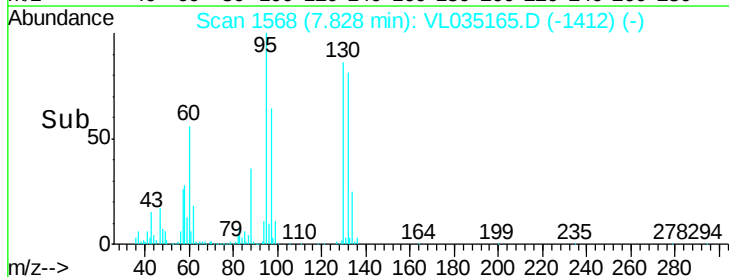
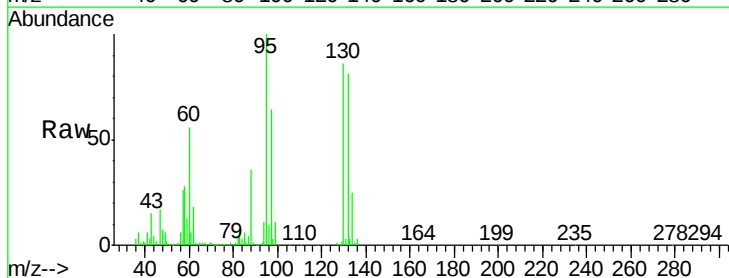
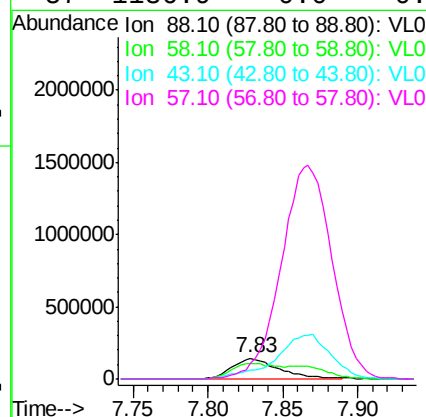
Manual Integrations  
 APPROVED

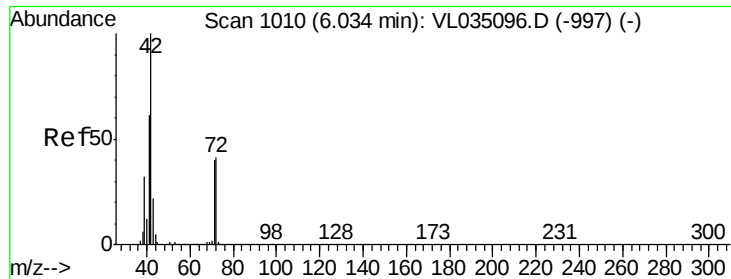
MMDadoda  
 7/9/2020 12:01:40 PM



#40  
 1,4-Dioxane  
 Concen: 10.507 ppbv  
 RT: 7.83 min Scan# 1568  
 Delta R.T. 0.00 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

| Tgt Ion | Ratio  | Lower | Upper |
|---------|--------|-------|-------|
| 88      | 100    |       |       |
| 58      | 132.5  | 110.2 | 165.4 |
| 43      | 256.0  | 0.0   | 0.0#  |
| 57      | 1136.9 | 0.0   | 0.0#  |





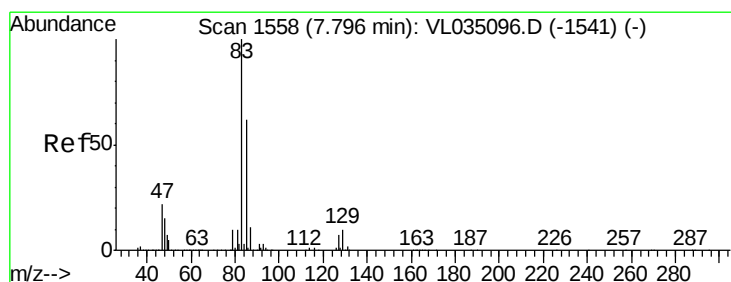
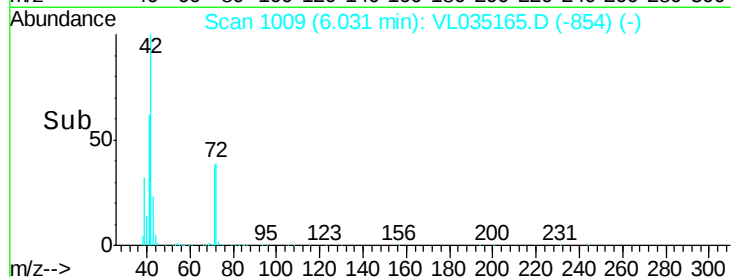
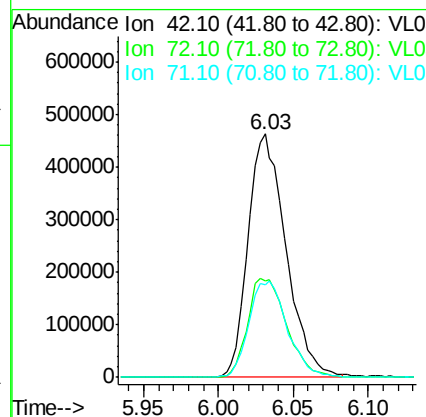
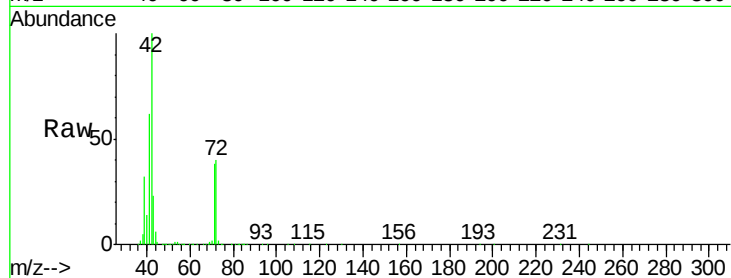
#41  
Tetrahydrofuran  
Concen: 11.352 ppbv  
RT: 6.03 min Scan# 1009  
Delta R.T. -0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0706ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 41.8  | 33.4  | 50.2  |
| 71      | 40.2  | 31.8  | 47.6  |

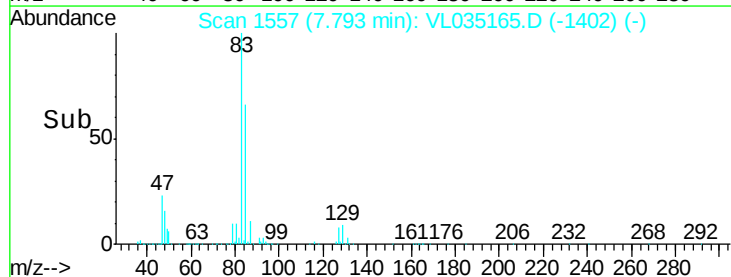
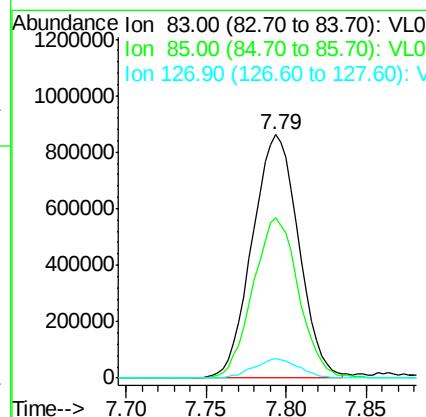
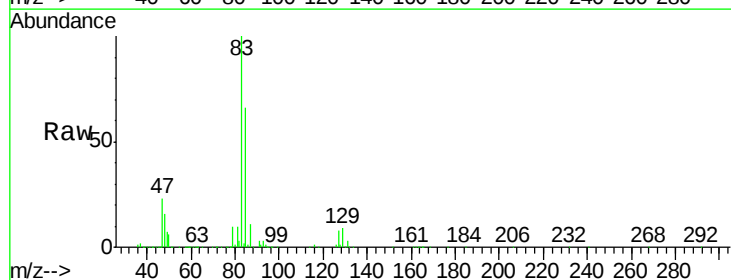
Manual Integrations  
APPROVED

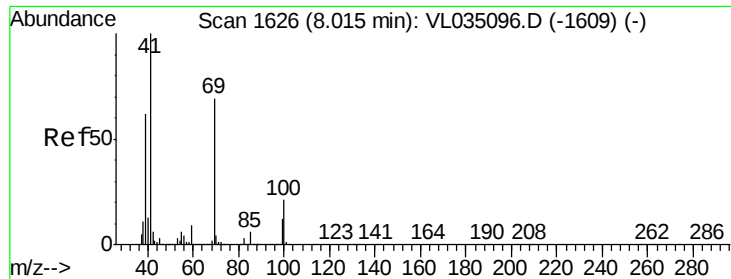
MMDadoda  
7/9/2020 12:01:40 PM



#42  
Bromodichloromethane  
Concen: 11.062 ppbv  
RT: 7.79 min Scan# 1557  
Delta R.T. -0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 66.0  | 49.4  | 74.0  |
| 127     | 8.1   | 5.9   | 8.9   |





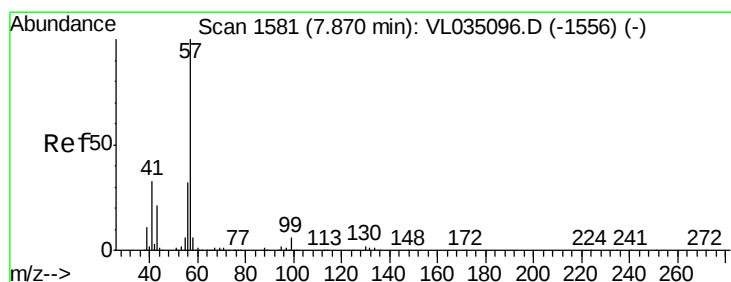
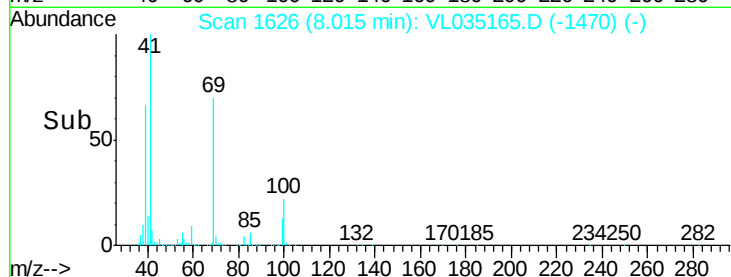
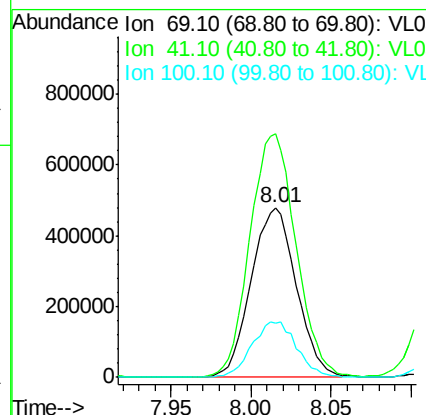
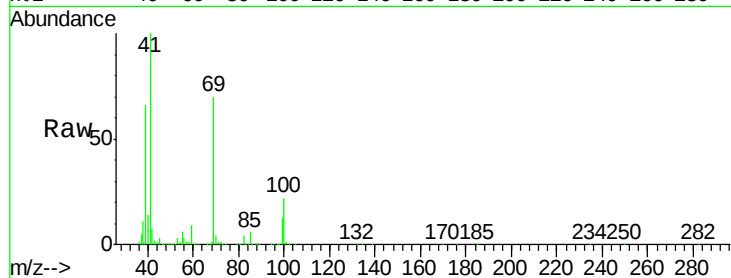
#43  
Methvl Methacrvlate  
Concen: 11.522 ppbv  
RT: 8.01 min Scan# 1626  
Delta R.T. 0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0706ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 146.6 | 116.4 | 174.6 |
| 100     | 32.6  | 25.3  | 37.9  |

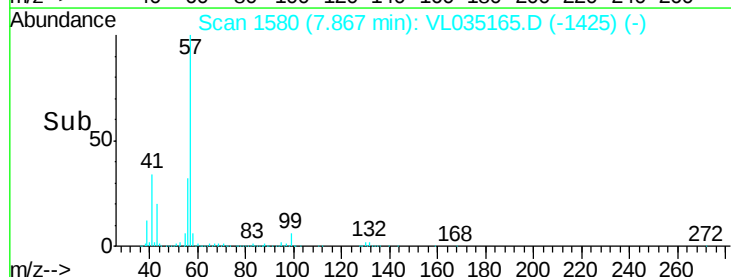
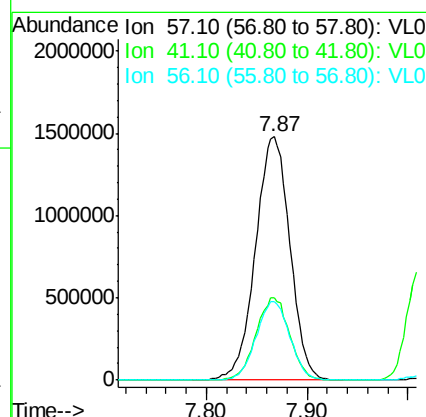
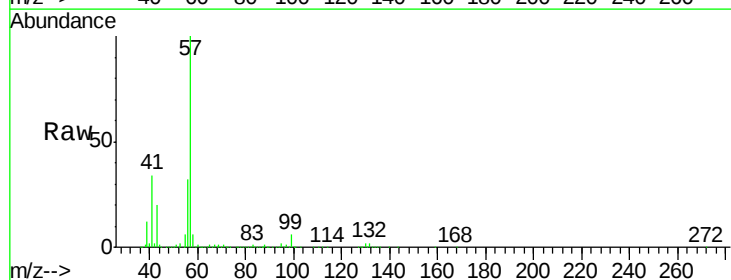
Manual Integrations  
APPROVED

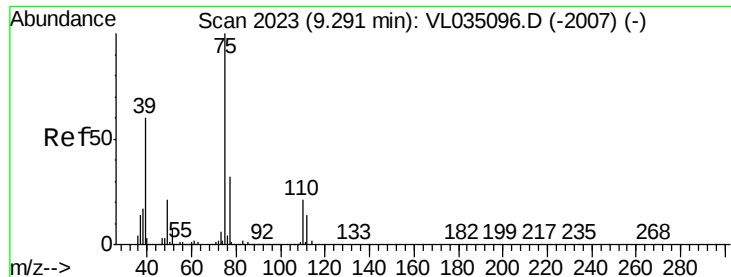
MMDadoda  
7/9/2020 12:01:40 PM



#44  
2,2,4-Trimethylpentane  
Concen: 10.542 ppbv  
RT: 7.87 min Scan# 1580  
Delta R.T. -0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 33.2  | 26.2  | 39.2  |
| 56      | 31.5  | 25.4  | 38.2  |





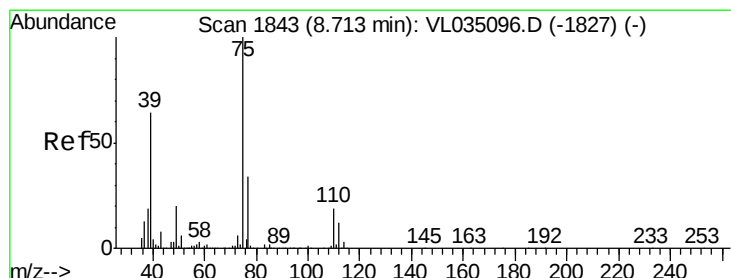
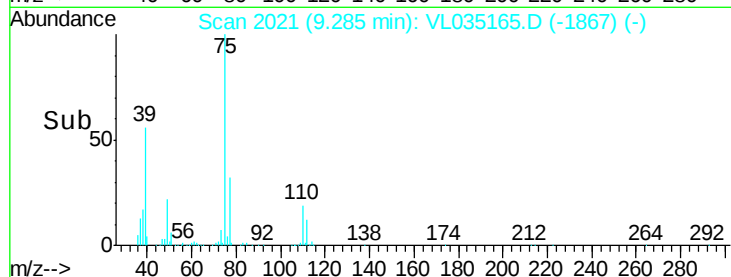
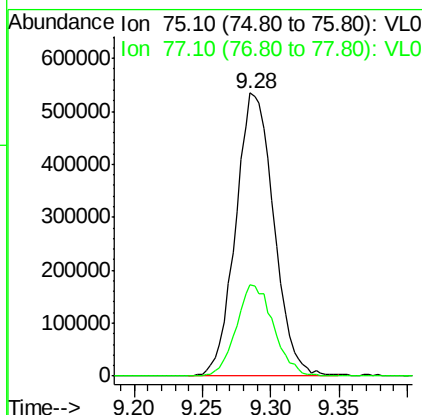
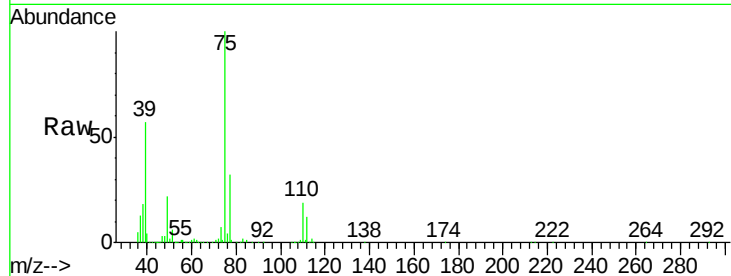
#45  
t-1,3-Dichloropropene  
Concen: 13.290 ppbv  
RT: 9.28 min Scan# 2021  
Delta R.T. -0.01 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0706ABS01

Tot Ion: 75 Resp: 1039378  
Ion Ratio Lower Upper  
75 100  
77 32.2 25.5 38.3

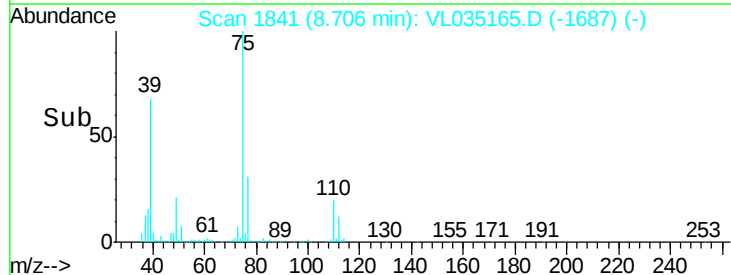
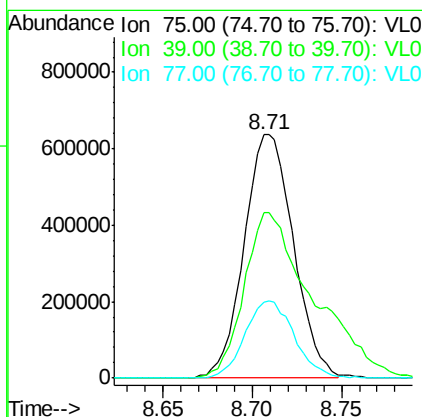
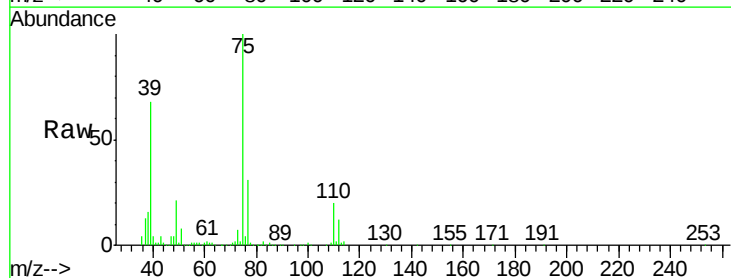
Manual Integrations  
APPROVED

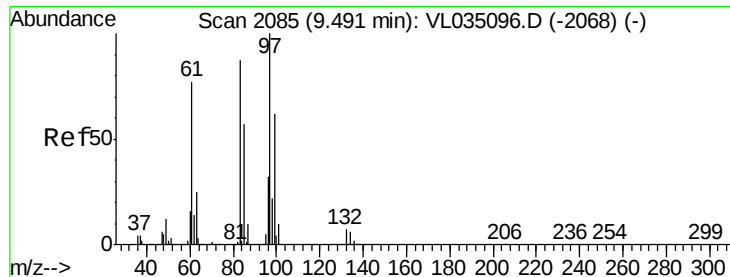
MMDadoda  
7/9/2020 12:01:40 PM



#46  
cis-1,3-Dichloropropene  
Concen: 12.651 ppbv  
RT: 8.71 min Scan# 1841  
Delta R.T. -0.01 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

Tgt Ion: 75 Resp: 1229122  
Ion Ratio Lower Upper  
75 100  
39 67.8 51.1 76.7  
77 31.3 26.9 40.3





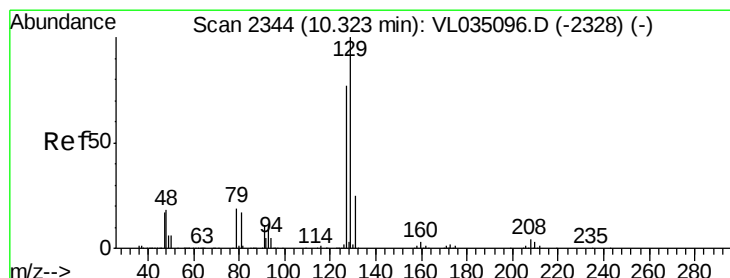
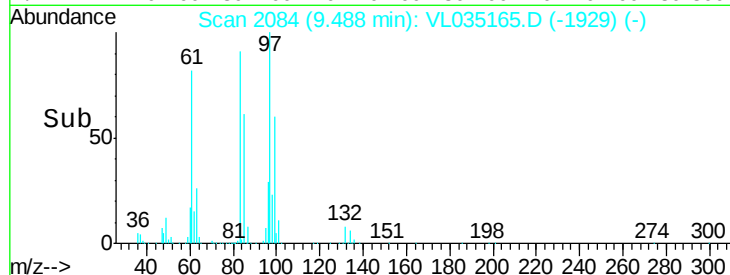
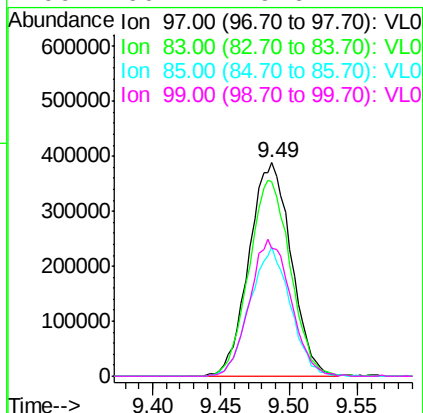
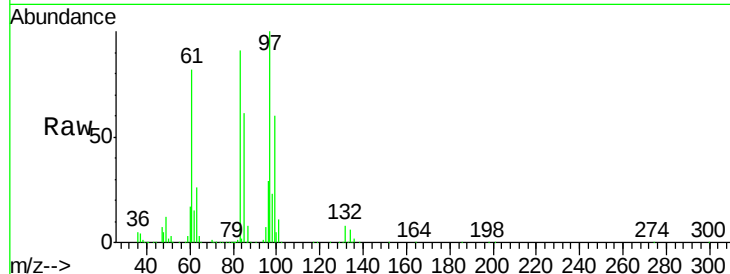
#47  
 1,1,2-Trichloroethane  
 Concen: 10.250 ppbv  
 RT: 9.49 min Scan# 2084  
 Delta R.T. -0.00 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0706ABS01

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 97      | 100  |       | 830631 |       |       |
| 83      | 91.0 | 69.5  | 104.3  |       |       |
| 85      | 60.7 | 46.0  | 69.0   |       |       |
| 99      | 60.1 | 49.6  | 74.4   |       |       |

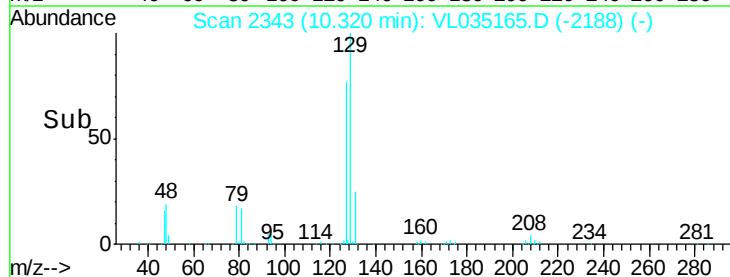
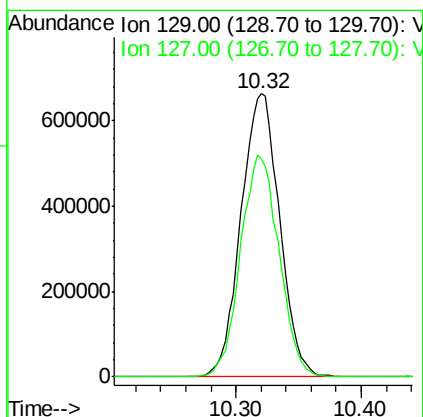
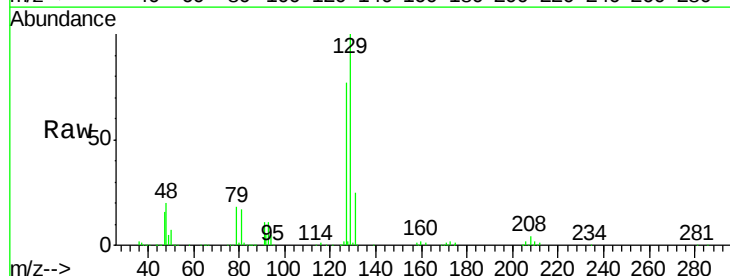
Manual Integrations  
 APPROVED

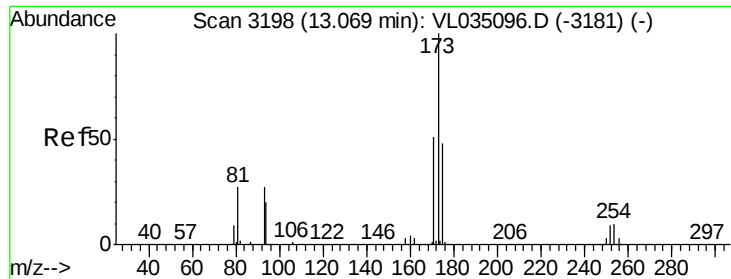
MMDadoda  
 7/9/2020 12:01:40 PM



#48  
 Dibromochloromethane  
 Concen: 11.754 ppbv  
 RT: 10.32 min Scan# 2343  
 Delta R.T. -0.00 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

| Tgt Ion | Ion  | Ratio | Resp    | Lower | Upper |
|---------|------|-------|---------|-------|-------|
| 129     | 100  |       | 1420016 |       |       |
| 127     | 78.5 | 39.3  | 117.8   |       |       |





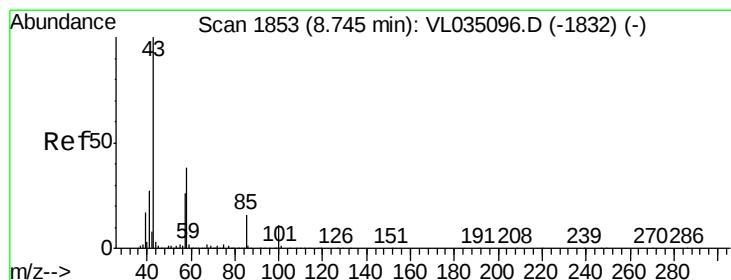
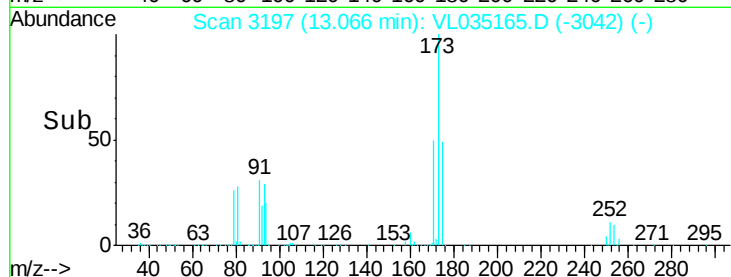
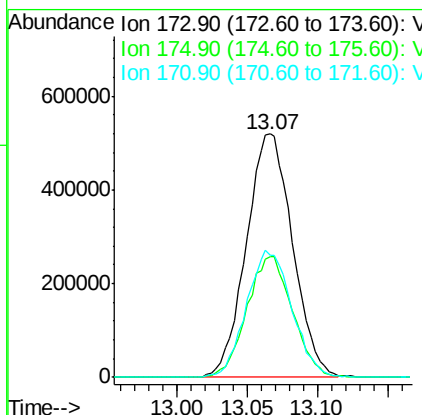
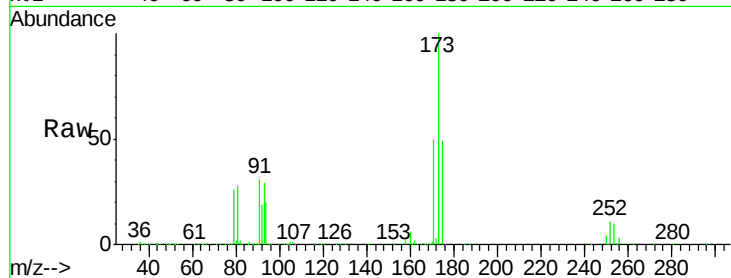
#49  
Bromoform  
Concen: 11.590 ppbv  
RT: 13.07 min Scan# 3197  
Delta R.T. -0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0706ABS01

Tot Ion:173 Resp: 1189526  
Ion Ratio Lower Upper  
173 100  
175 49.2 39.1 58.7  
171 51.4 41.7 62.5

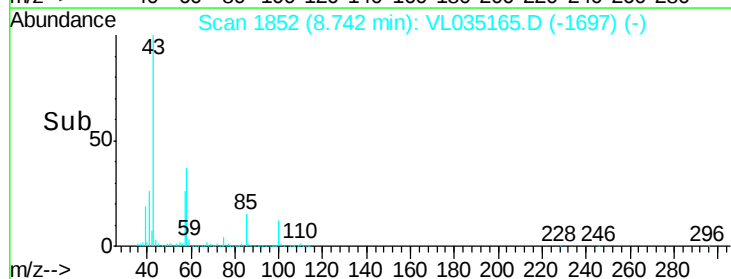
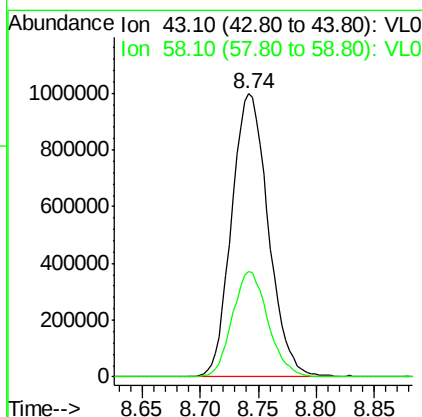
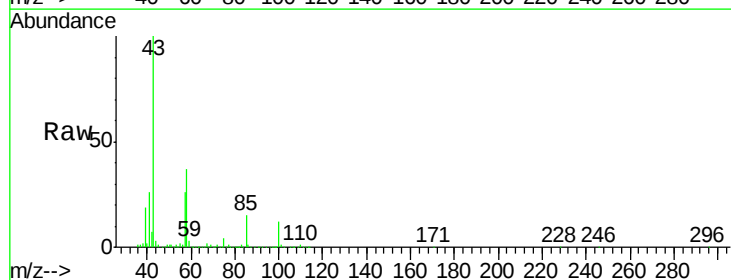
Manual Integrations  
APPROVED

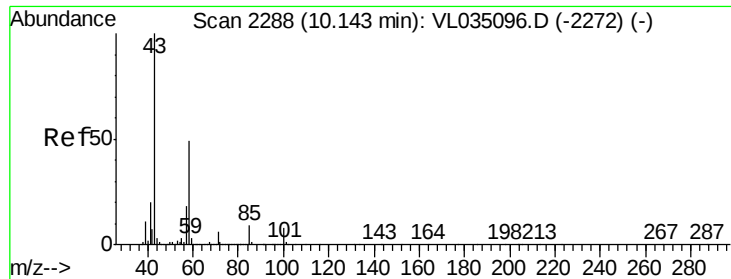
MMDadoda  
7/9/2020 12:01:40 PM



#50  
4-Methyl-2-Pentanone  
Concen: 10.933 ppbv  
RT: 8.74 min Scan# 1852  
Delta R.T. -0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

Tgt Ion: 43 Resp: 2187038  
Ion Ratio Lower Upper  
43 100  
58 36.5 29.4 44.0





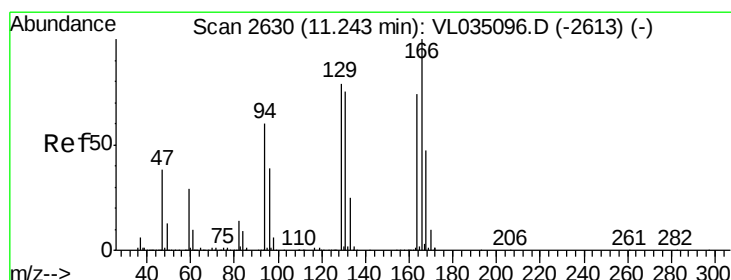
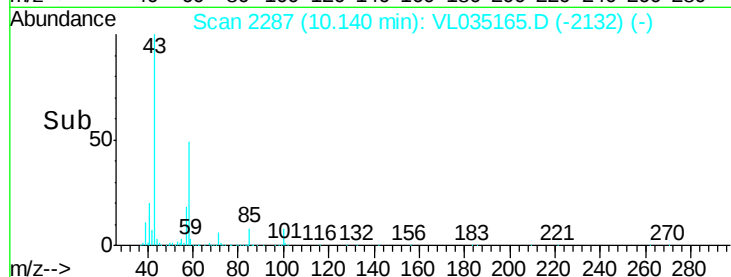
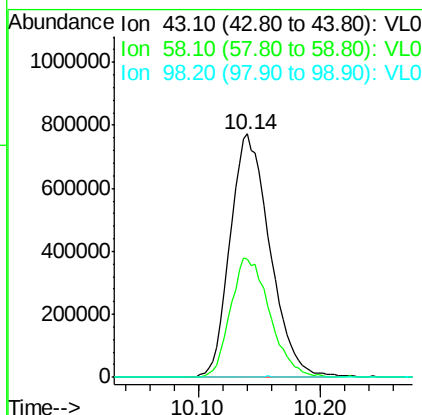
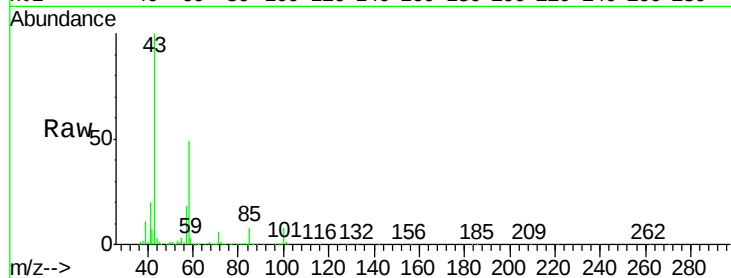
#51  
2-Hexanone  
Concen: 11.137 ppbv  
RT: 10.14 min Scan# 2287  
Delta R.T. -0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0706ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 48.7  | 39.2  | 58.8  |
| 98      | 0.2   | 0.3   | 0.5#  |

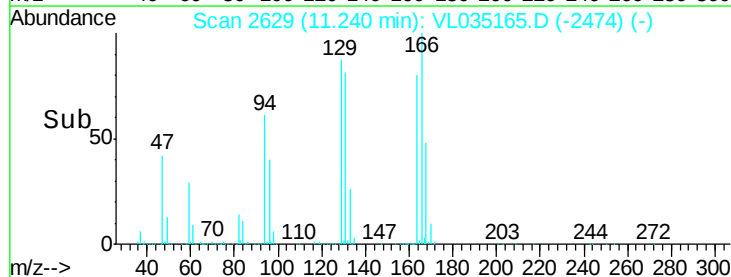
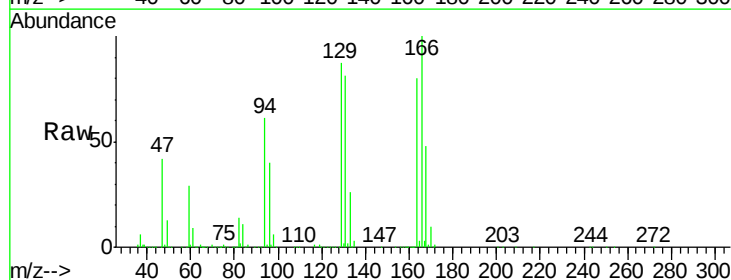
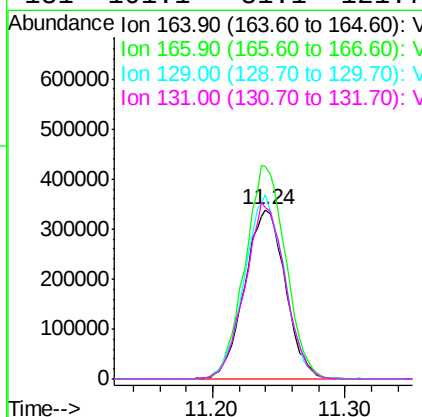
Manual Integrations  
APPROVED

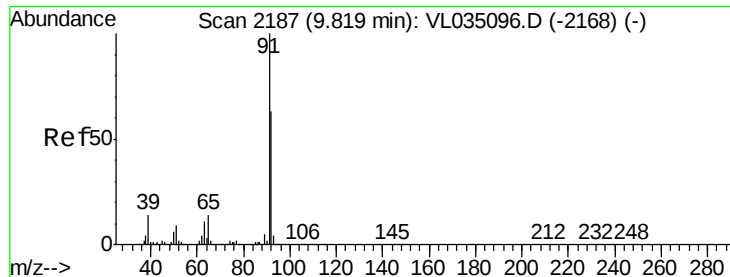
MMDadoda  
7/9/2020 12:01:40 PM



#52  
Tetrachloroethene  
Concen: 10.833 ppbv  
RT: 11.24 min Scan# 2629  
Delta R.T. -0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 125.1 | 107.5 | 161.3 |
| 129     | 109.0 | 84.9  | 127.3 |
| 131     | 101.1 | 81.1  | 121.7 |





#53

Toluene

Concen: 11.640 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VL035165.D

Acq: 7 Jul 2020 5:54

Instrument :

MSVOA\_L

ClientSampleId :

VL0706ABS01

Tot Ion: 91 Resp: 2357101

Ion Ratio Lower Upper

91 100

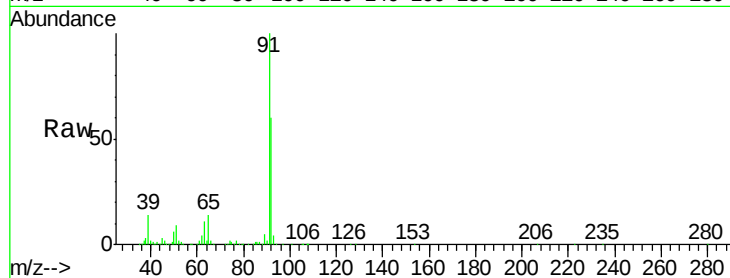
92 59.6 49.0 73.6

Manual Integrations

APPROVED

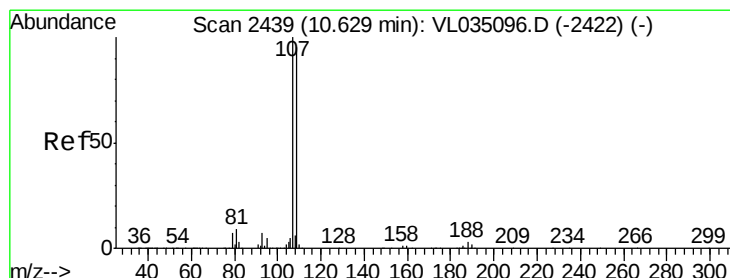
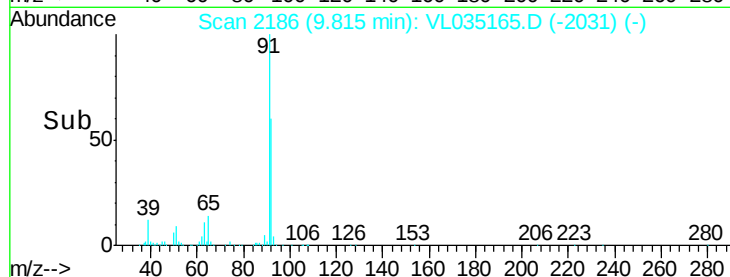
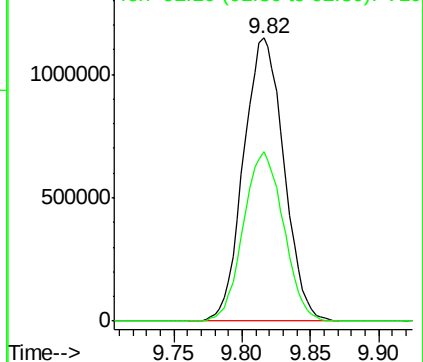
MMDadoda

7/9/2020 12:01:40 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 10.579 ppbv

RT: 10.63 min Scan# 2438

Delta R.T. -0.00 min

Lab File: VL035165.D

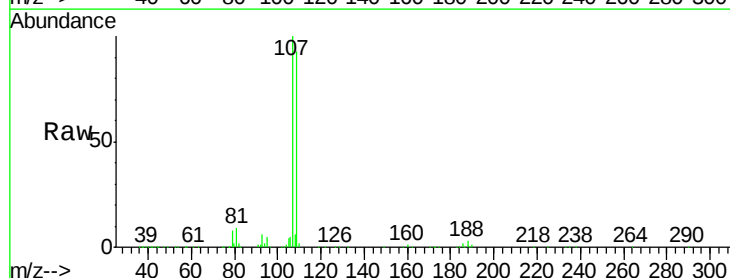
Acq: 7 Jul 2020 5:54

Tgt Ion: 107 Resp: 1269443

Ion Ratio Lower Upper

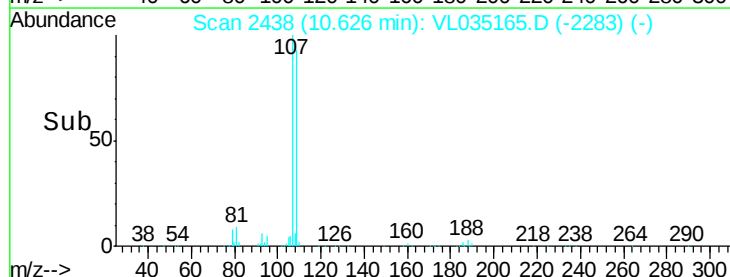
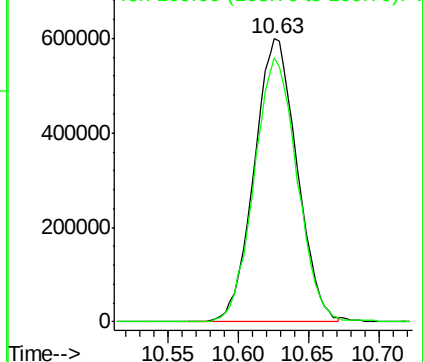
107 100

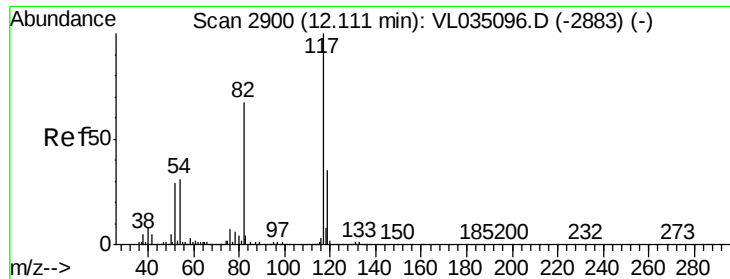
109 93.3 75.9 113.9



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





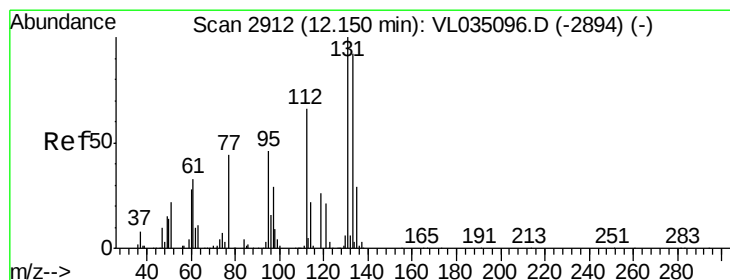
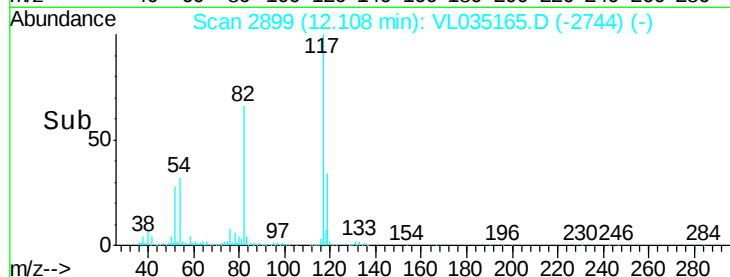
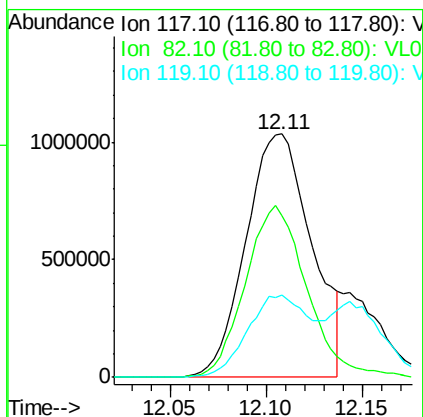
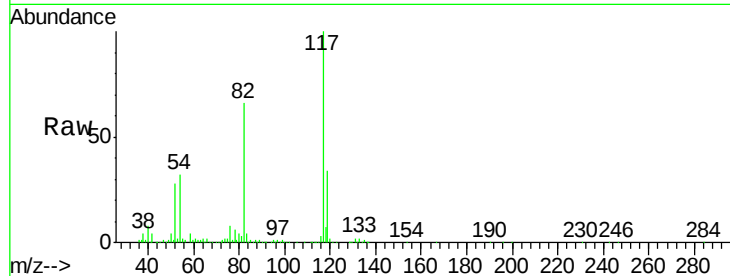
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv m  
RT: 12.11 min Scan# 2899  
Delta R.T. -0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0706ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 66.1  | 50.4  | 75.6  |
| 119     | 29.8  | 25.4  | 38.0  |

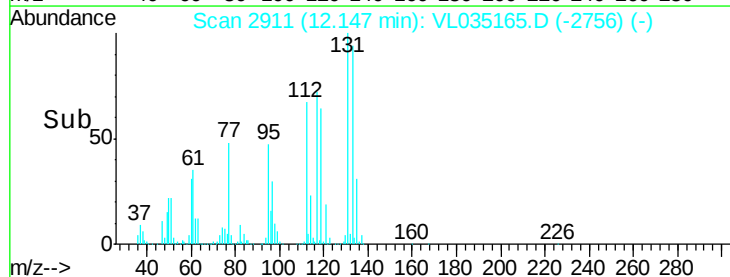
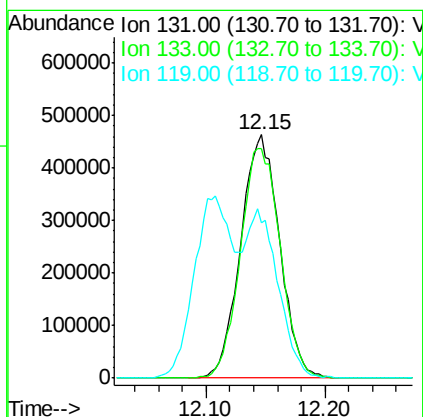
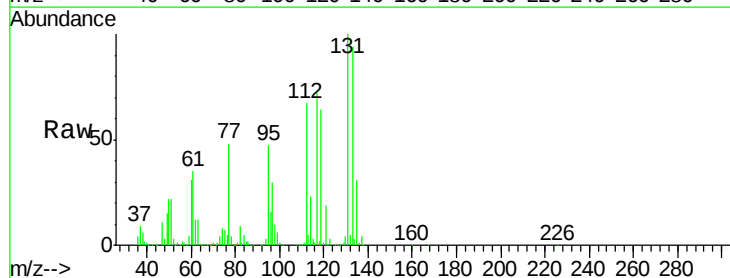
Manual Integrations  
APPROVED

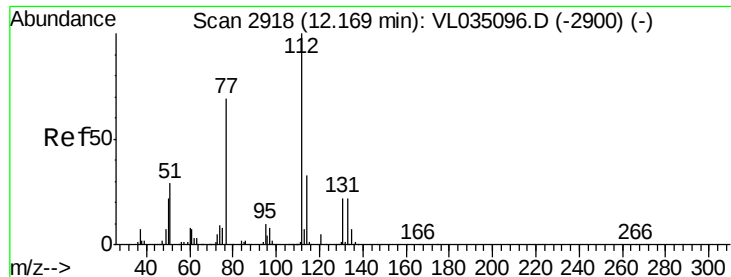
MMDadoda  
7/9/2020 12:01:40 PM



#56  
1,1,1,2-Tetrachloroethane  
Concen: 10.394 ppbv  
RT: 12.15 min Scan# 2911  
Delta R.T. -0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 131     | 100   |       |        |
| 133     | 97.1  | 76.2  | 114.4  |
| 119     | 55.6  | 114.6 | 172.0# |





#57

Chlorobenzene

Concen: 9.767 ppbv

RT: 12.17 min Scan# 2918

Delta R.T. 0.00 min

Lab File: VL035165.D

Acq: 7 Jul 2020 5:54

Instrument :

MSVOA\_L

ClientSampleId :

VL0706ABS01

Tot Ion:112 Resp: 1768890

Ion Ratio Lower Upper

112 100

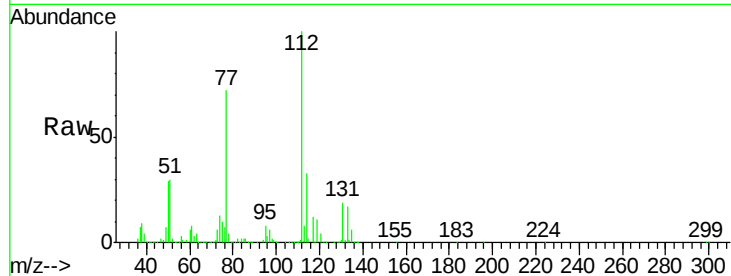
77 71.6 56.7 85.1

114 32.9 29.3 35.9

Manual Integrations  
APPROVED

MMDadoda

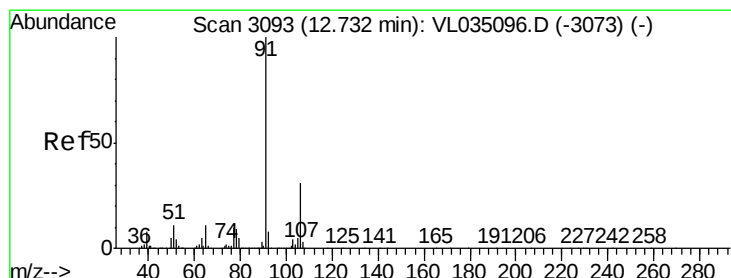
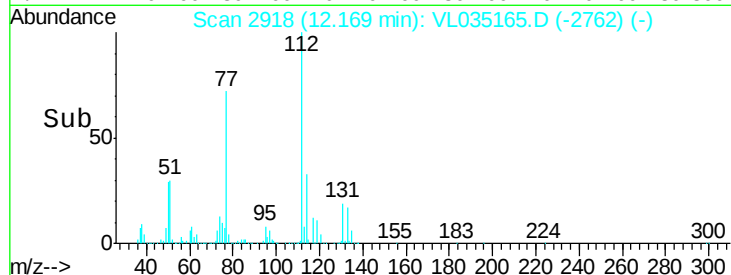
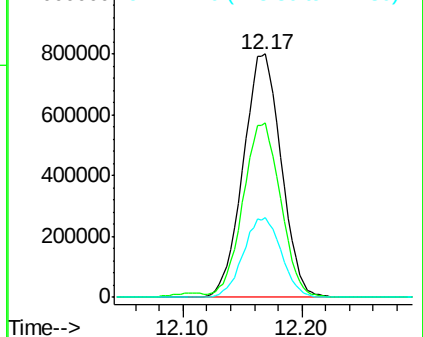
7/9/2020 12:01:40 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 11.219 ppbv

RT: 12.73 min Scan# 3092

Delta R.T. -0.00 min

Lab File: VL035165.D

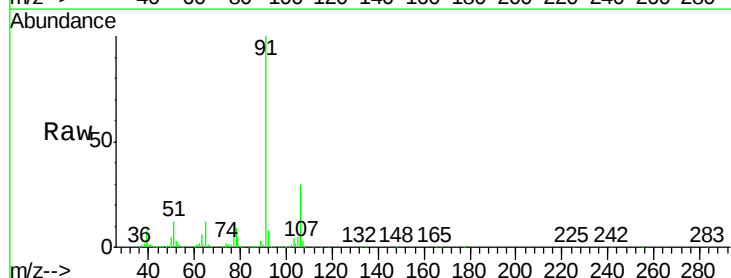
Acq: 7 Jul 2020 5:54

Tgt Ion: 91 Resp: 3102597

Ion Ratio Lower Upper

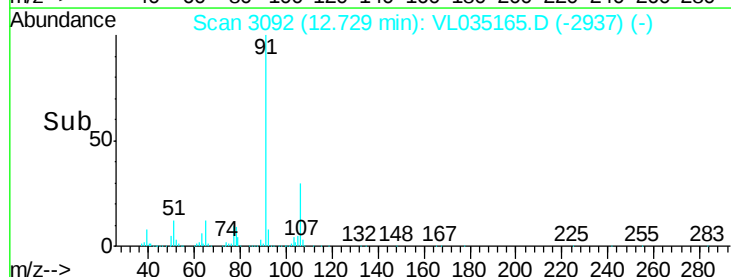
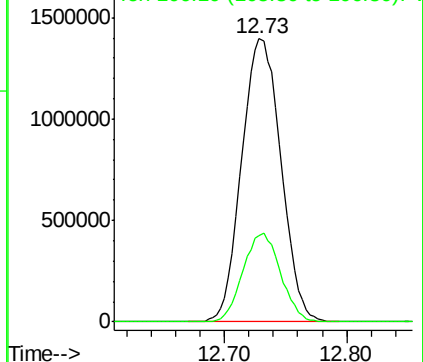
91 100

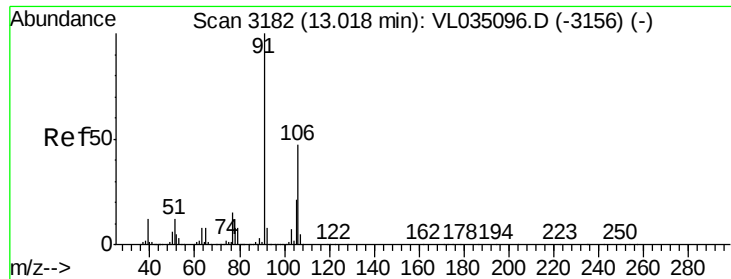
106 30.5 25.0 37.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





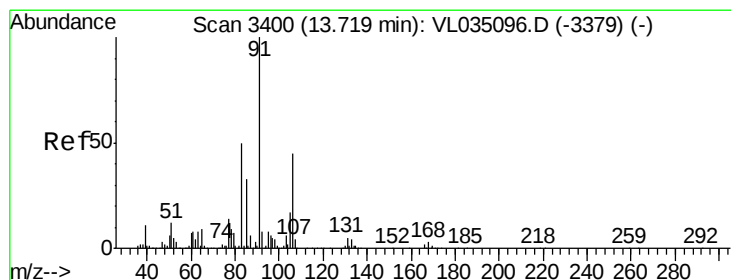
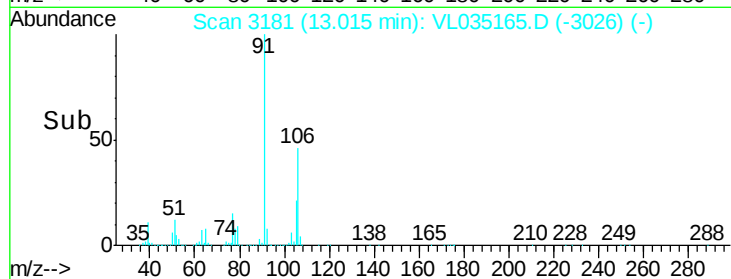
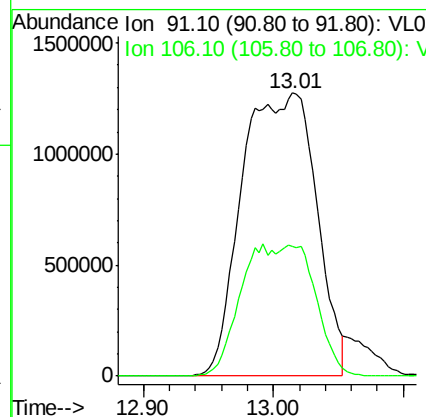
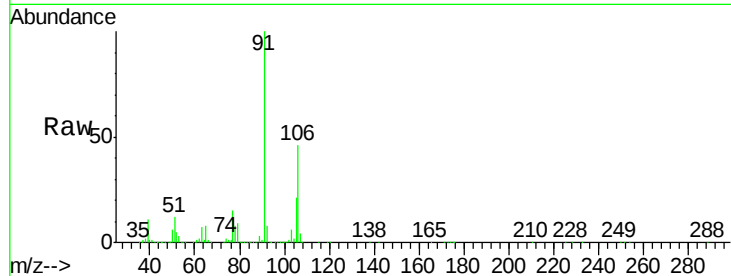
#59  
m/p-Xylene  
Concen: 20.721 ppbv m  
RT: 13.01 min Scan# 3181  
Delta R.T. -0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0706ABS01

Tot Ion: 91 Resp: 5078532  
Ion Ratio Lower Upper  
91 100  
106 0.0 36.5 54.7#

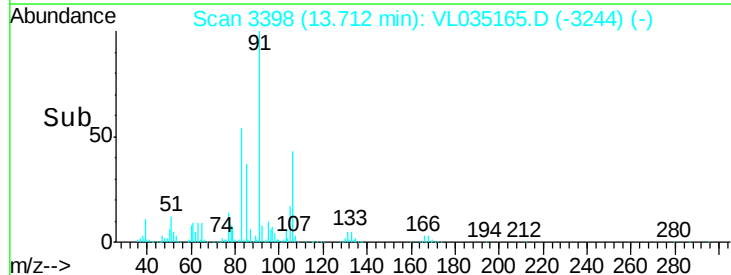
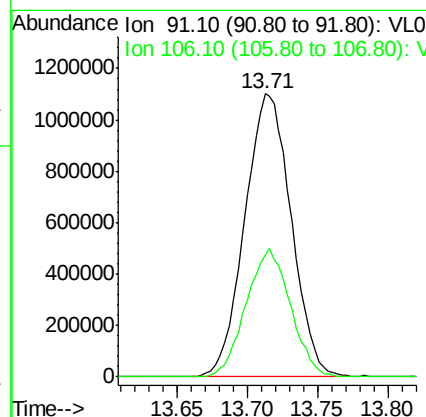
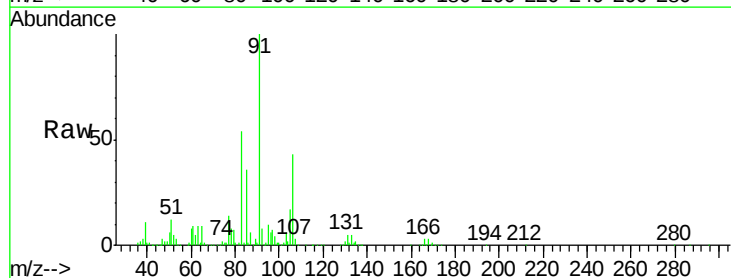
Manual Integrations  
APPROVED

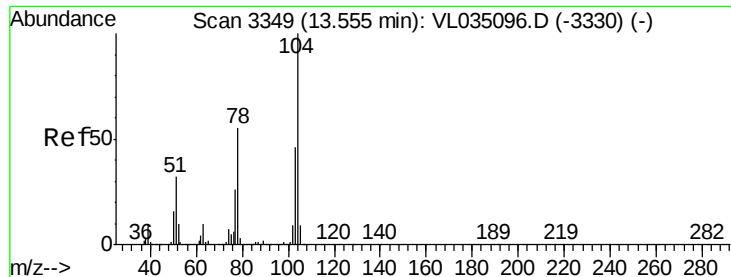
MMDadoda  
7/9/2020 12:01:40 PM



#60  
o-Xylene  
Concen: 10.315 ppbv  
RT: 13.71 min Scan# 3398  
Delta R.T. -0.01 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

Tgt Ion: 91 Resp: 2516770  
Ion Ratio Lower Upper  
91 100  
106 43.7 22.1 66.5





#61

Stvrene

Concen: 11.515 ppbv

RT: 13.55 min Scan# 3348

Delta R.T. -0.00 min

Lab File: VL035165.D

Acq: 7 Jul 2020 5:54

Instrument :

MSVOA\_L

ClientSampleId :

VL0706ABS01

Tot Ion:104 Resp: 1767980

Ion Ratio Lower Upper

104 100

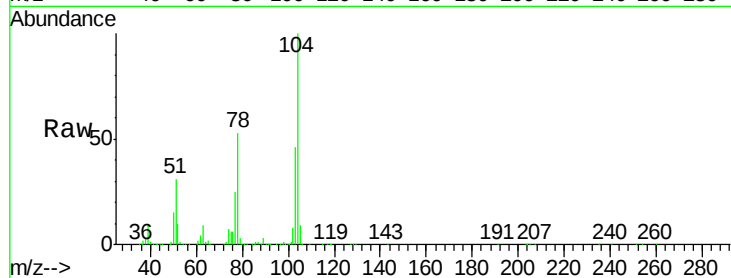
78 54.7 43.4 65.0

103 47.4 38.3 57.5

Manual Integrations  
APPROVED

MMDadoda

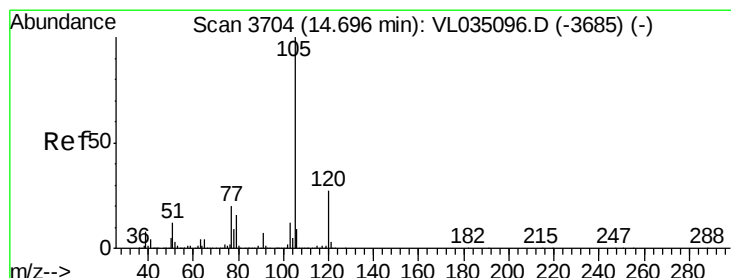
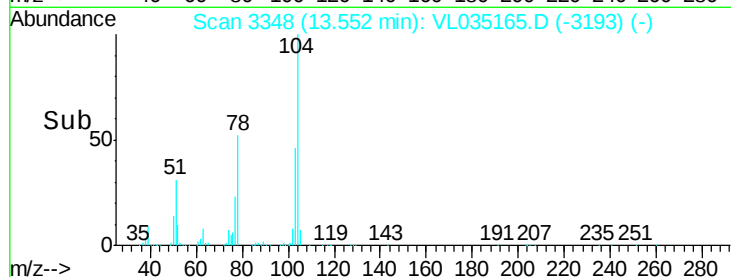
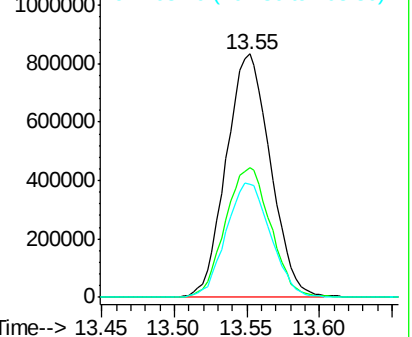
7/9/2020 12:01:40 PM



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: 10.204 ppbv

RT: 14.69 min Scan# 3702

Delta R.T. -0.01 min

Lab File: VL035165.D

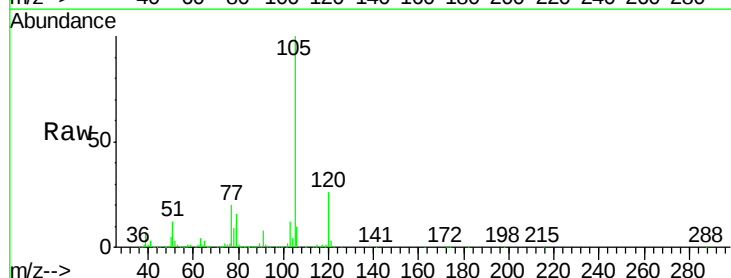
Acq: 7 Jul 2020 5:54

Tgt Ion:105 Resp: 3715240

Ion Ratio Lower Upper

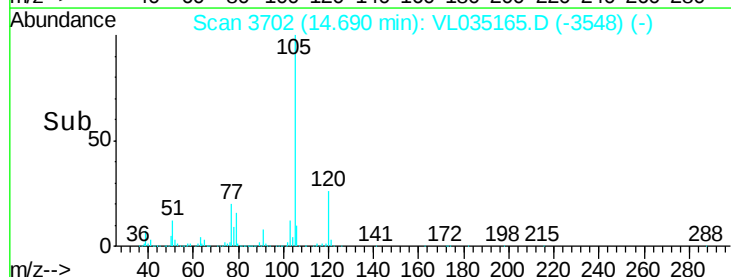
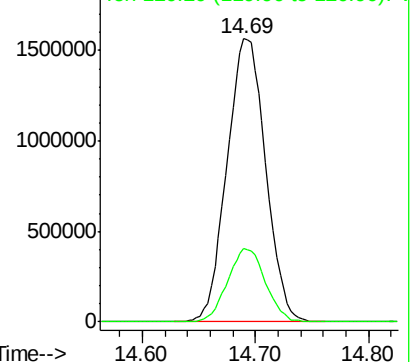
105 100

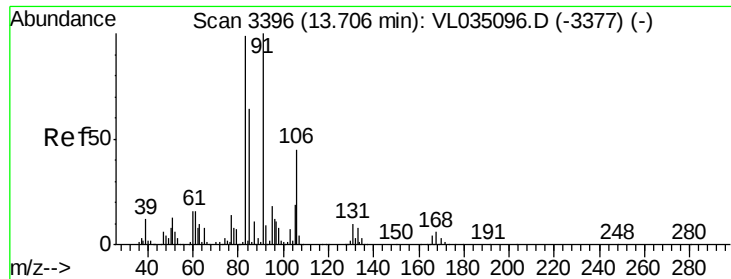
120 25.4 20.8 31.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





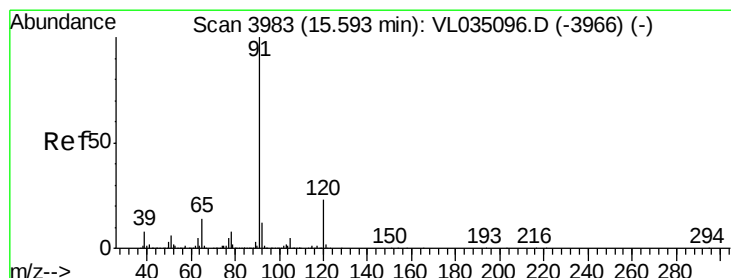
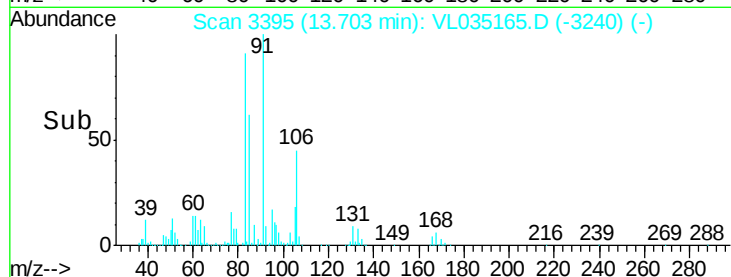
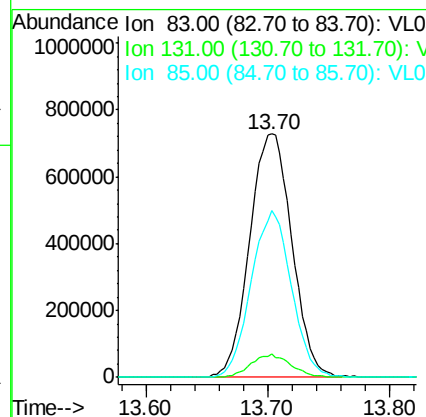
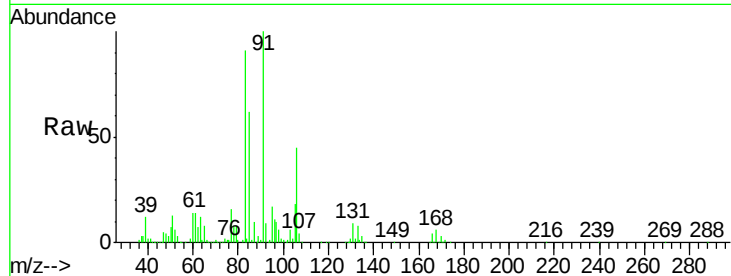
#63  
1,1,2,2-Tetrachloroethane  
Concen: 8.828 ppbv  
RT: 13.70 min Scan# 3395  
Delta R.T. -0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0706ABS01

Tot Ion: 83 Resp: 1744674  
Ion Ratio Lower Upper  
83 100  
131 9.0 4.7 14.0  
85 65.3 32.4 97.0

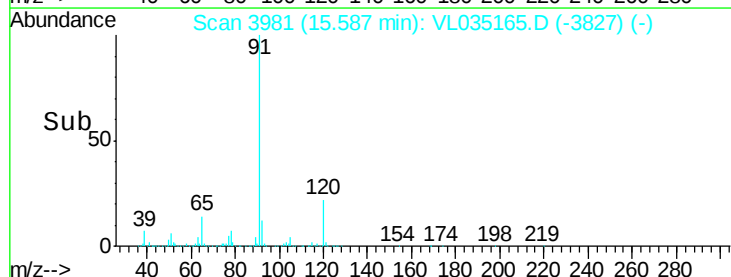
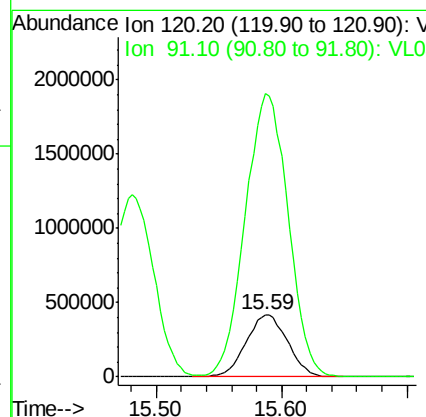
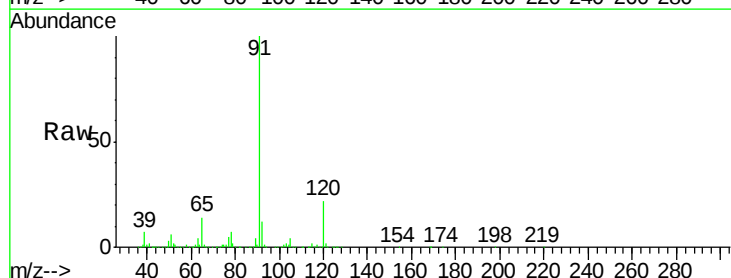
Manual Integrations  
APPROVED

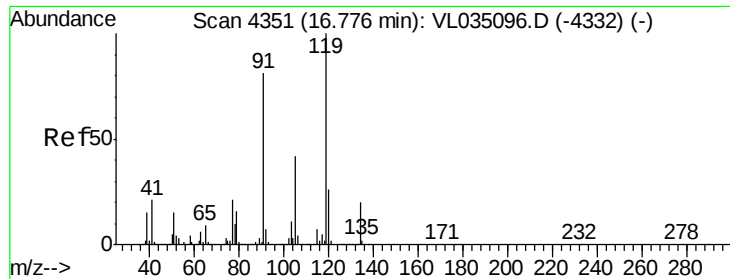
MMDadoda  
7/9/2020 12:01:40 PM



#64  
n-propylbenzene  
Concen: 10.333 ppbv  
RT: 15.59 min Scan# 3981  
Delta R.T. -0.01 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

Tgt Ion:120 Resp: 960114  
Ion Ratio Lower Upper  
120 100  
91 474.4 367.9 551.9





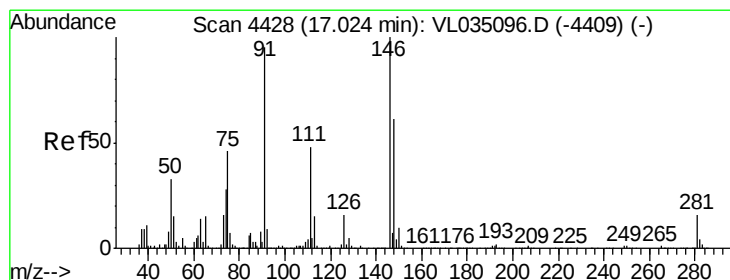
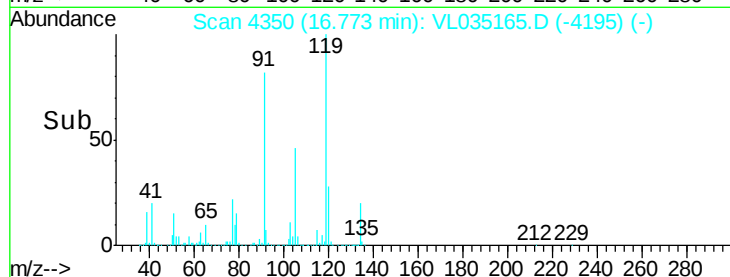
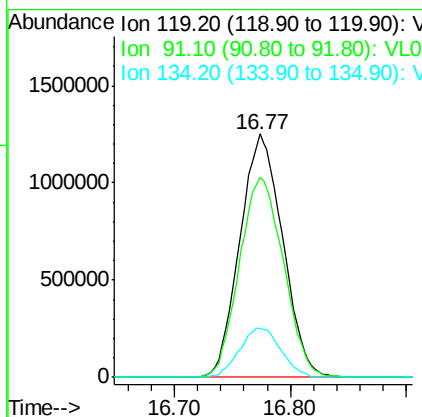
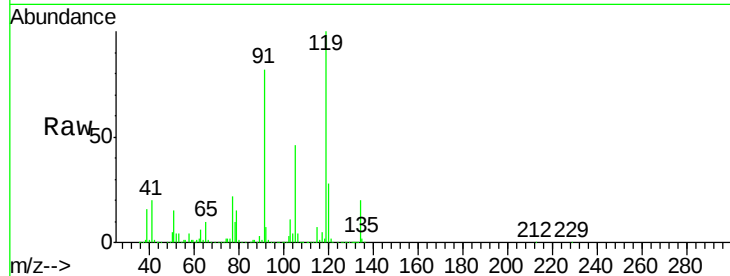
#65  
 tert-Butylbenzene  
 Concen: 10.283 ppbv  
 RT: 16.77 min Scan# 4350  
 Delta R.T. -0.00 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0706ABS01

Tot Ion:119 Resp: 3205868  
 Ion Ratio Lower Upper  
 119 100  
 91 84.8 67.6 101.4  
 134 19.7 15.7 23.5

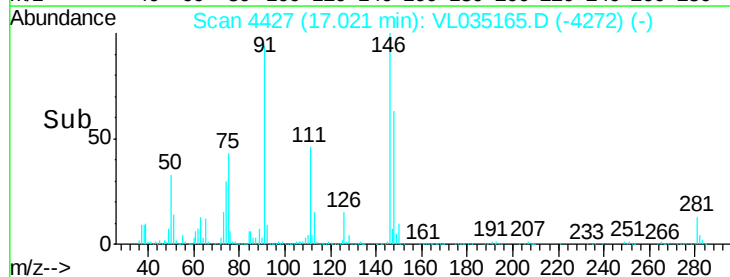
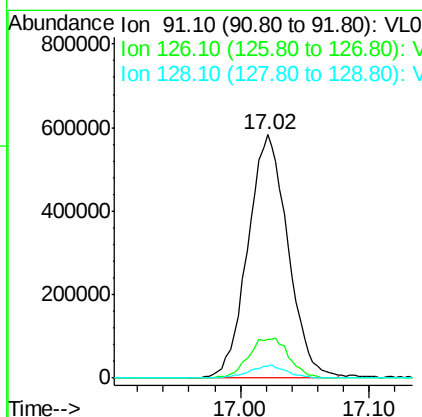
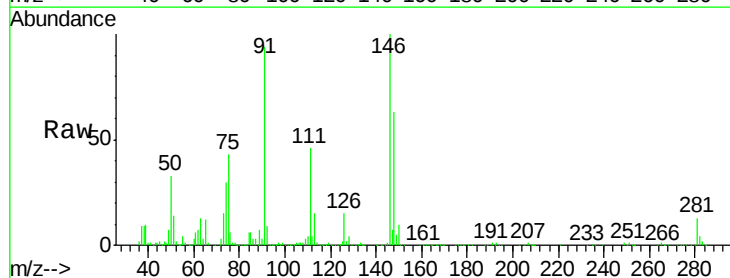
Manual Integrations  
 APPROVED

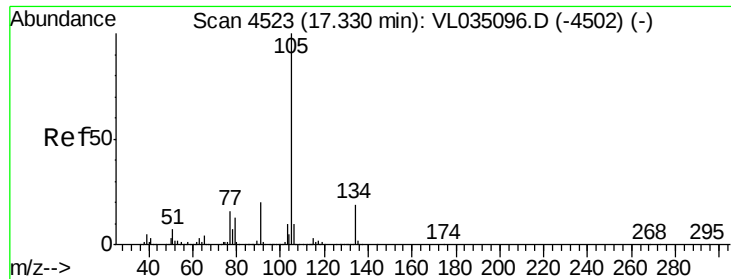
MMDadoda  
 7/9/2020 12:01:40 PM



#66  
 Benzyl Chloride  
 Concen: 13.042 ppbv  
 RT: 17.02 min Scan# 4427  
 Delta R.T. -0.00 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

Tgt Ion: 91 Resp: 1256129  
 Ion Ratio Lower Upper  
 91 100  
 126 16.8 13.5 20.3  
 128 5.1 4.3 6.5





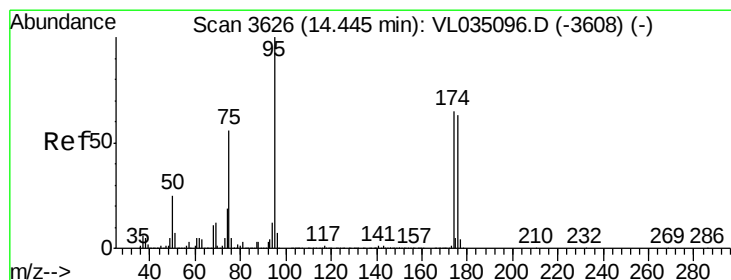
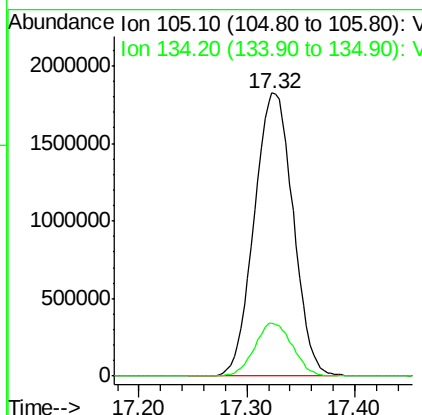
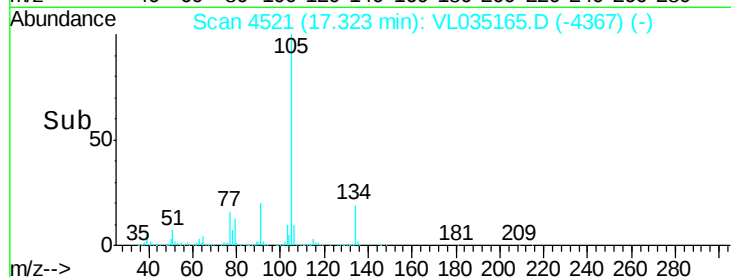
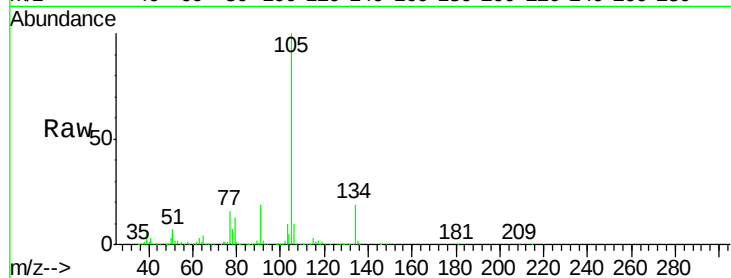
#67  
 sec-Butylbenzene  
 Concen: 10.225 ppbv  
 RT: 17.32 min Scan# 4521  
 Delta R.T. -0.01 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0706ABS01

Tot Ion: 105 Resp: 4569158  
 Ion Ratio Lower Upper  
 105 100  
 134 18.3 14.7 22.1

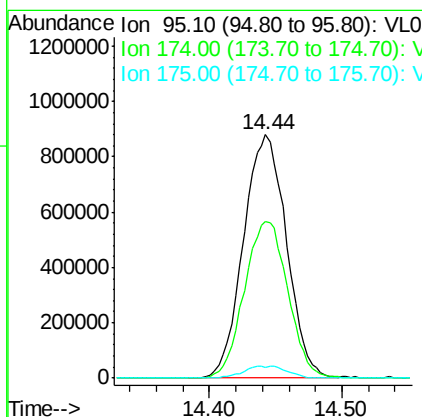
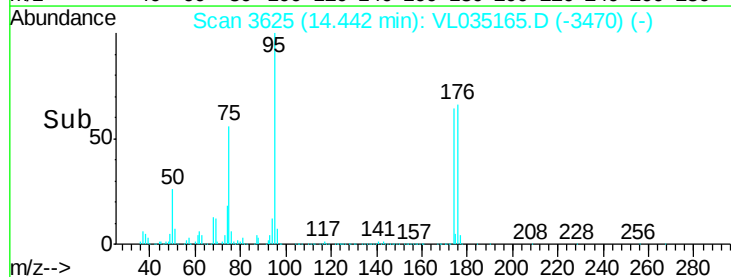
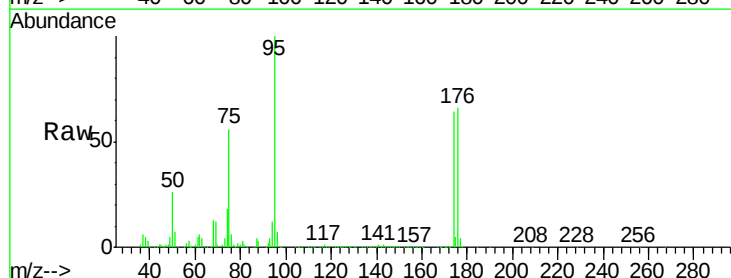
Manual Integrations  
 APPROVED

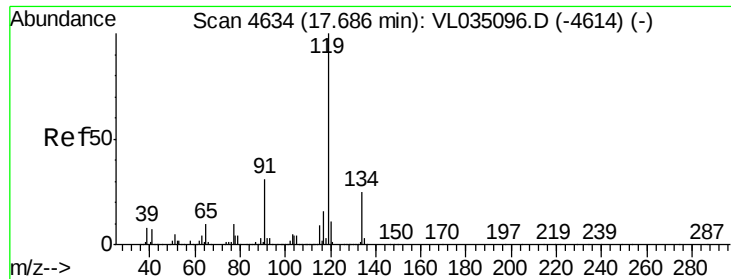
MMDadoda  
 7/9/2020 12:01:40 PM



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.697 ppbv  
 RT: 14.44 min Scan# 3625  
 Delta R.T. -0.00 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

Tgt Ion: 95 Resp: 1982774  
 Ion Ratio Lower Upper  
 95 100  
 174 65.5 52.2 78.2  
 175 5.0 4.0 6.0





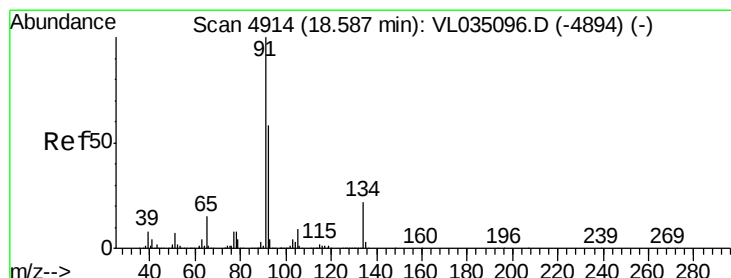
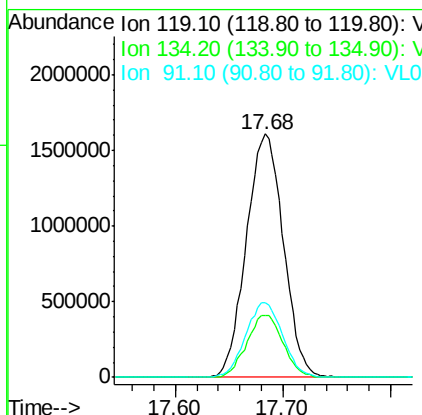
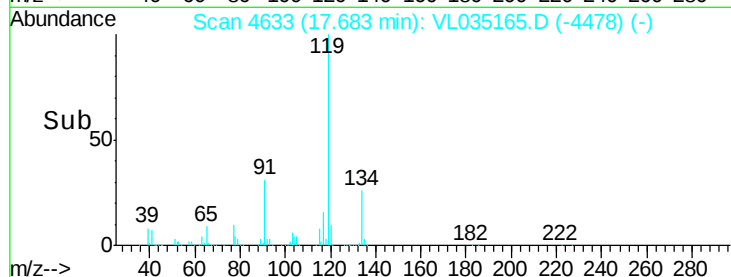
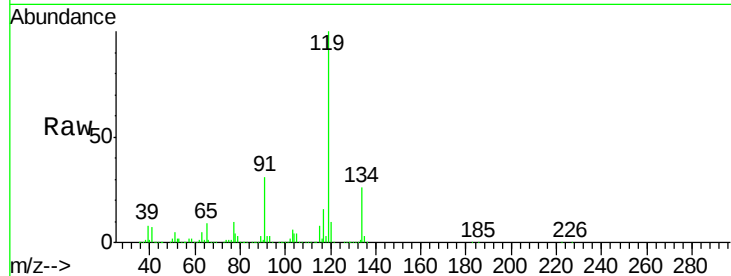
#69  
 p-Isopropyltoluene  
 Concen: 10.787 ppbv  
 RT: 17.68 min Scan# 4633  
 Delta R.T. -0.00 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0706ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 25.0  | 20.4  | 30.6  |
| 91      | 30.7  | 24.5  | 36.7  |

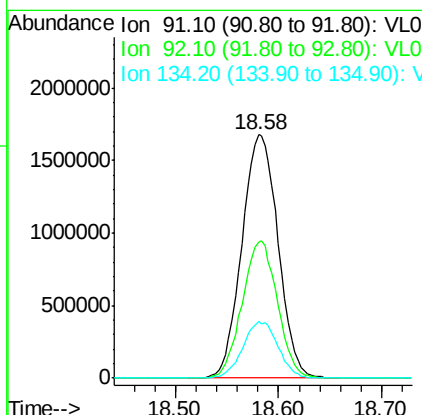
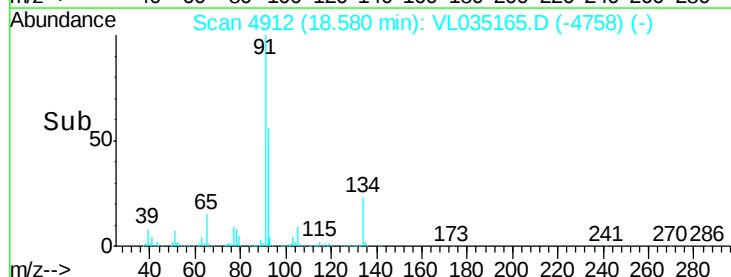
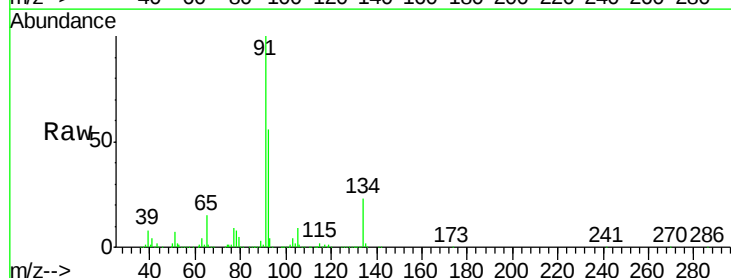
Manual Integrations  
 APPROVED

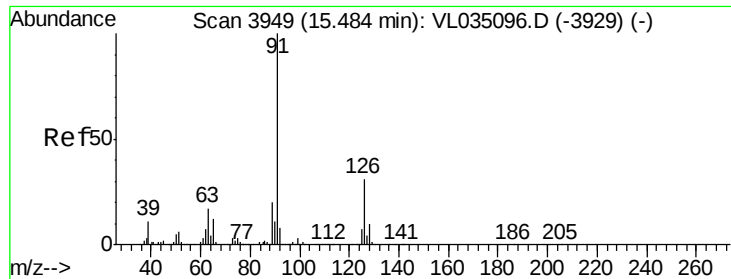
MMDadoda  
 7/9/2020 12:01:40 PM



#70  
 n-Butylbenzene  
 Concen: 10.615 ppbv  
 RT: 18.58 min Scan# 4912  
 Delta R.T. -0.01 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 55.0  | 44.4  | 66.6  |
| 134     | 22.6  | 18.0  | 27.0  |





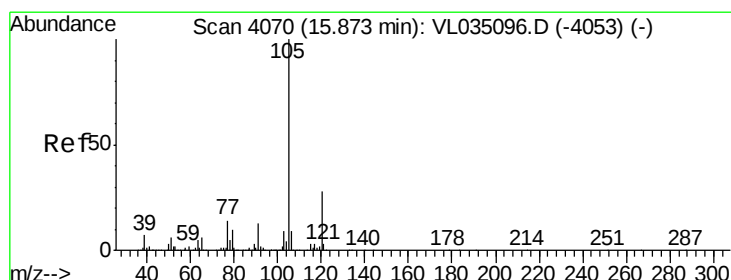
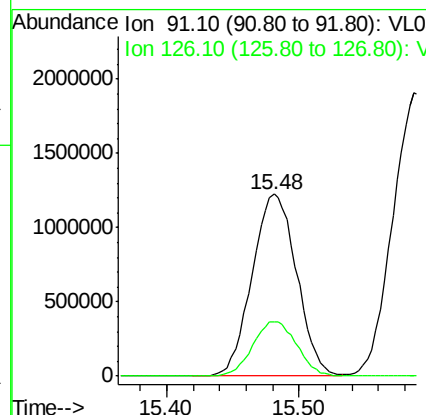
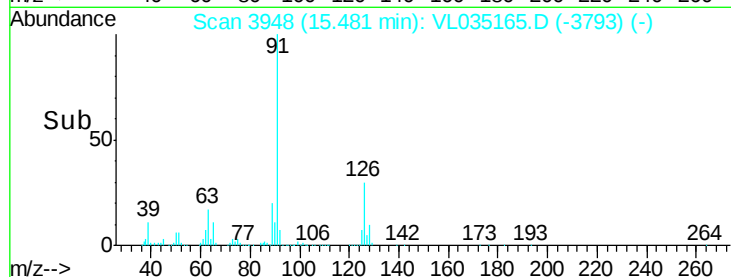
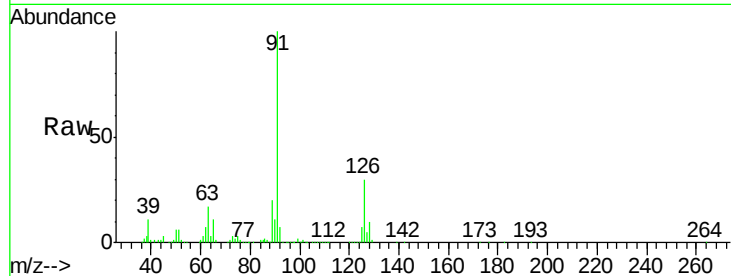
#71  
 2-Chlorotoluene  
 Concen: 10.373 ppbv  
 RT: 15.48 min Scan# 3948  
 Delta R.T. -0.00 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0706ABS01

Tot Ion: 91 Resp: 2854873  
 Ion Ratio Lower Upper  
 91 100  
 126 29.7 12.0 48.0

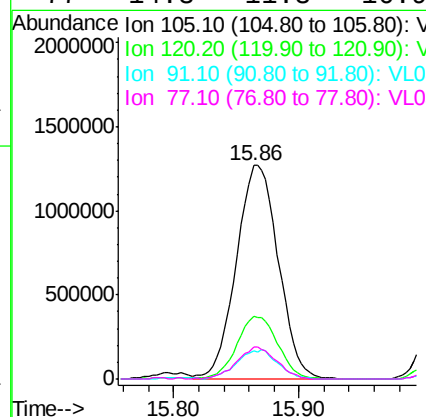
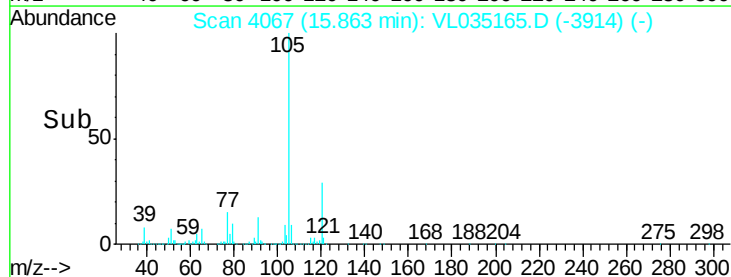
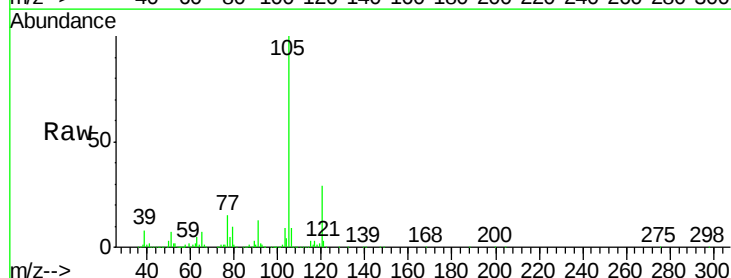
Manual Integrations  
 APPROVED

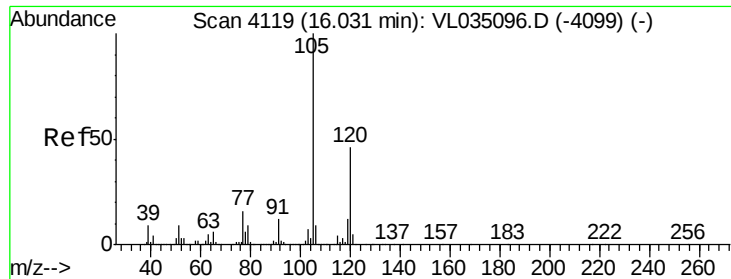
MMDadoda  
 7/9/2020 12:01:40 PM



#72  
 4-Ethyltoluene  
 Concen: 10.853 ppbv  
 RT: 15.86 min Scan# 4067  
 Delta R.T. -0.01 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

Tgt Ion: 105 Resp: 2945726  
 Ion Ratio Lower Upper  
 105 100  
 120 29.5 23.4 35.0  
 91 13.8 10.6 16.0  
 77 14.3 11.3 16.9





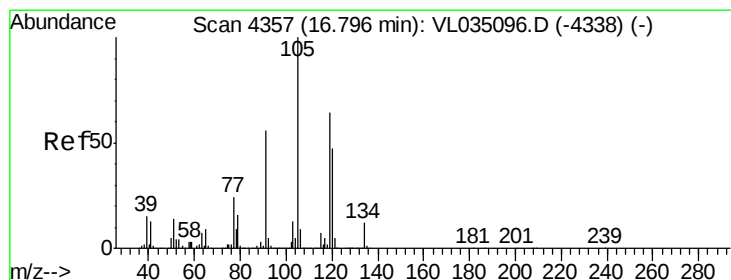
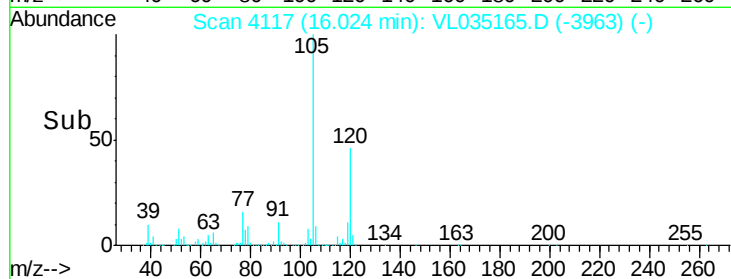
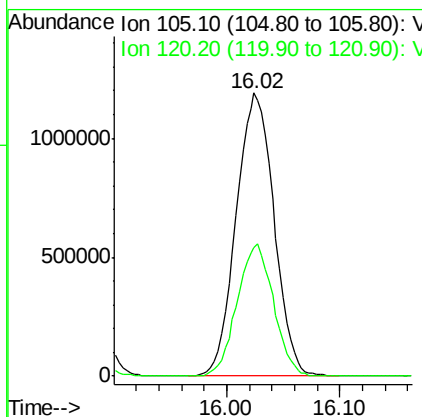
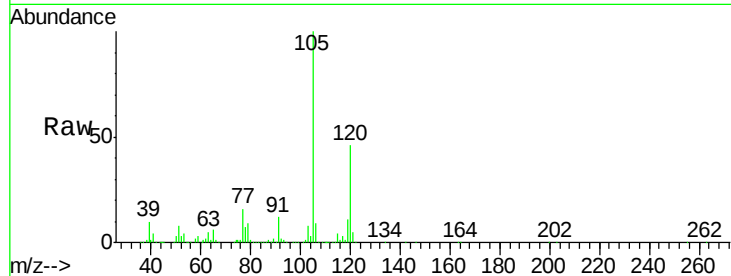
#73  
 1,3,5-Trimethylbenzene  
 Concen: 10.747 ppbv  
 RT: 16.02 min Scan# 4117  
 Delta R.T. -0.01 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0706ABS01

Tot Ion:105 Resp: 2757563  
 Ion Ratio Lower Upper  
 105 100  
 120 45.5 37.0 55.6

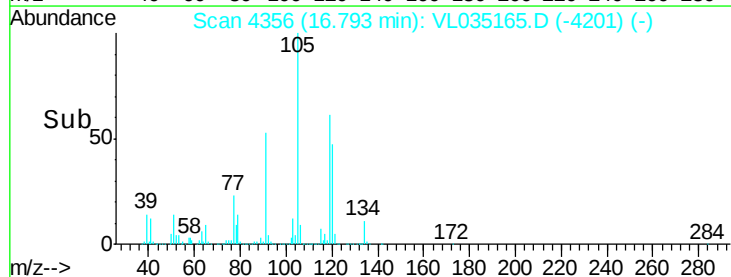
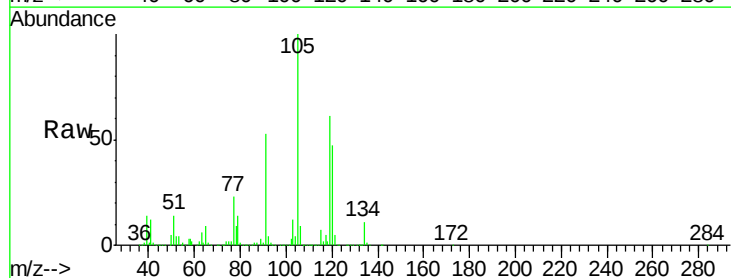
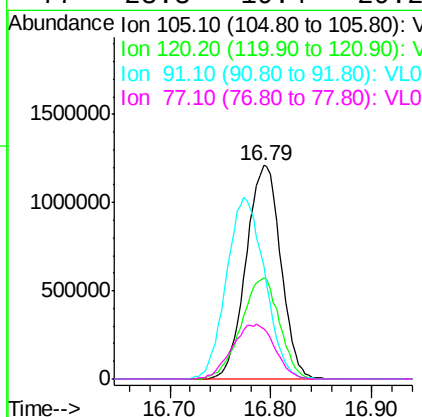
Manual Integrations  
 APPROVED

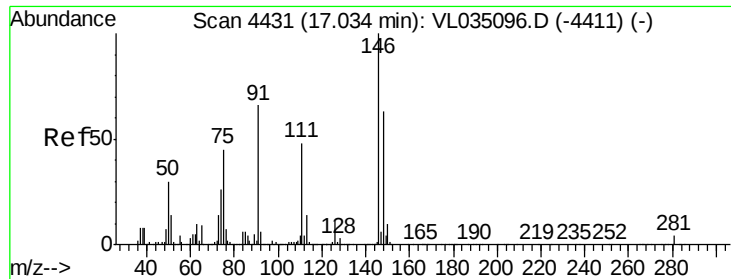
MMDadoda  
 7/9/2020 12:01:40 PM



#74  
 1,2,4-Trimethylbenzene  
 Concen: 10.093 ppbv  
 RT: 16.79 min Scan# 4356  
 Delta R.T. -0.00 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

Tgt Ion:105 Resp: 2890460  
 Ion Ratio Lower Upper  
 105 100  
 120 47.4 37.9 56.9  
 91 52.9 46.0 69.0  
 77 23.3 19.4 29.2





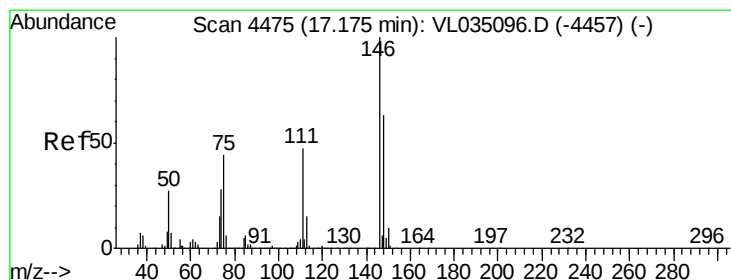
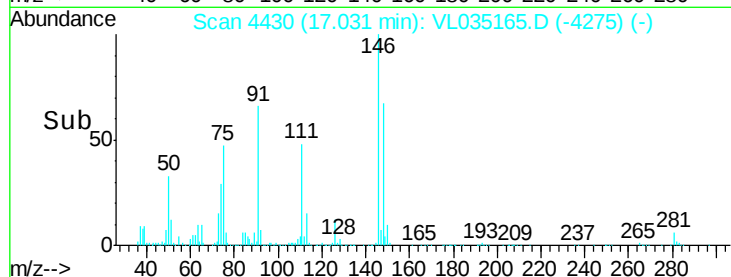
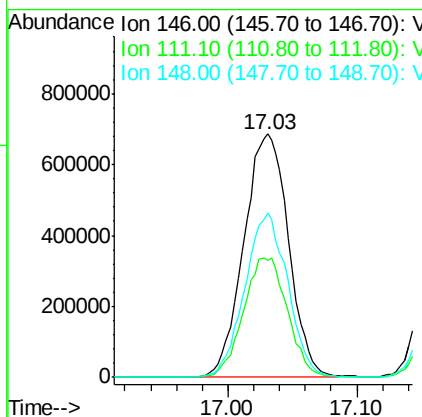
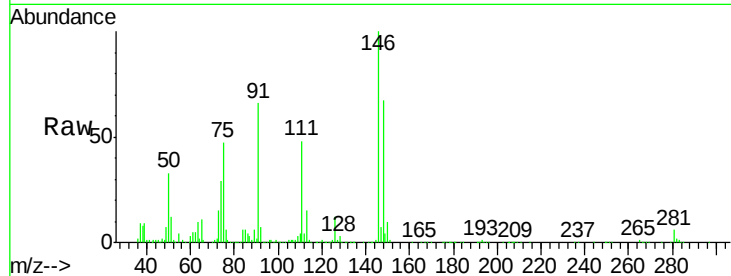
#75  
 1,3-Dichlorobenzene  
 Concen: 9.686 ppbv  
 RT: 17.03 min Scan# 4430  
 Delta R.T. -0.00 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0706ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 48.6  | 24.1  | 72.4  |
| 148     | 64.9  | 32.3  | 96.8  |

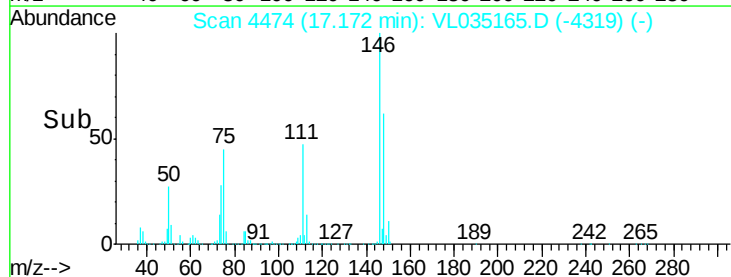
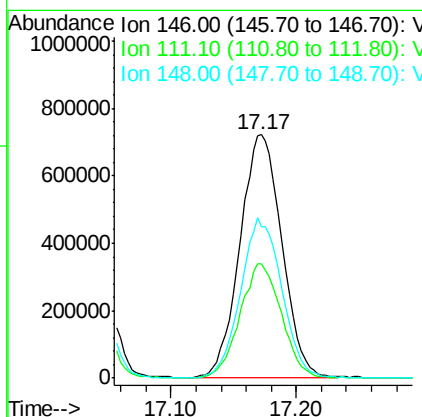
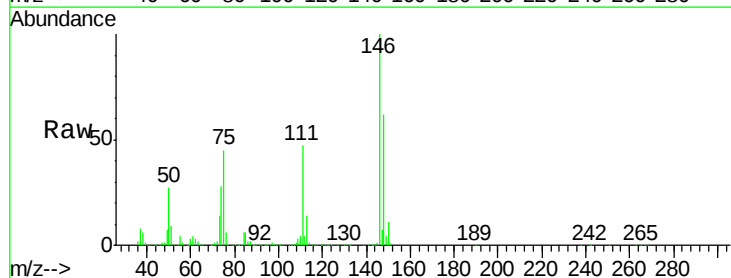
Manual Integrations  
 APPROVED

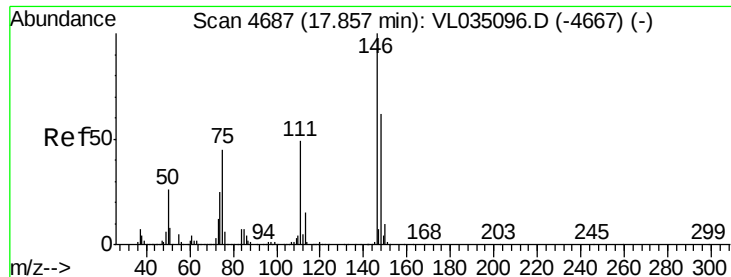
MMDadoda  
 7/9/2020 12:01:40 PM



#76  
 1,4-Dichlorobenzene  
 Concen: 10.189 ppbv  
 RT: 17.17 min Scan# 4474  
 Delta R.T. -0.00 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 46.3  | 23.5  | 70.5  |
| 148     | 65.0  | 32.0  | 96.2  |





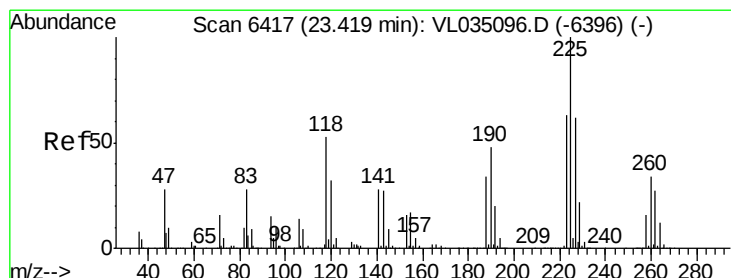
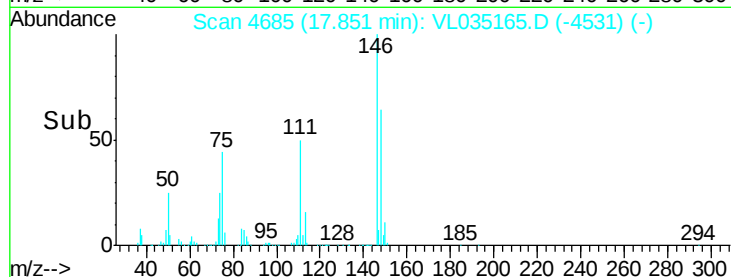
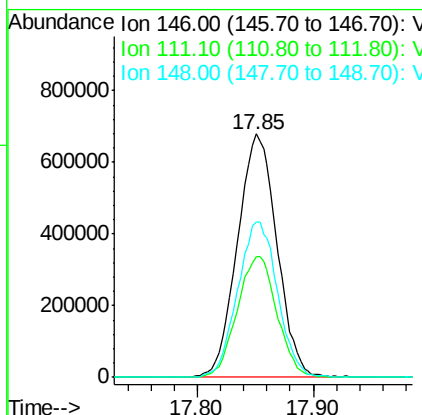
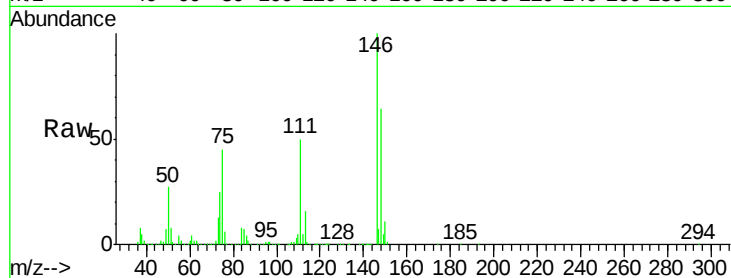
#77  
 1,2-Dichlorobenzene  
 Concen: 10.281 ppbv  
 RT: 17.85 min Scan# 4685  
 Delta R.T. -0.01 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0706ABS01

Tot Ion:146 Resp: 1607754  
 Ion Ratio Lower Upper  
 146 100  
 111 50.2 25.0 75.0  
 148 64.7 32.3 96.8

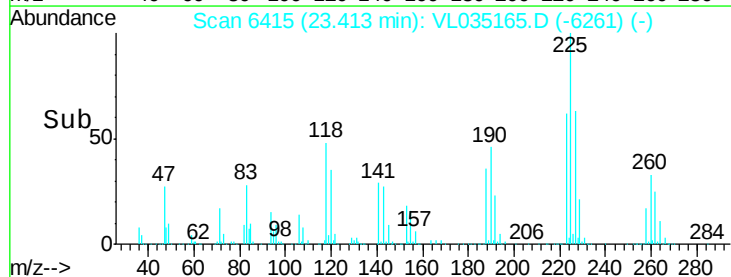
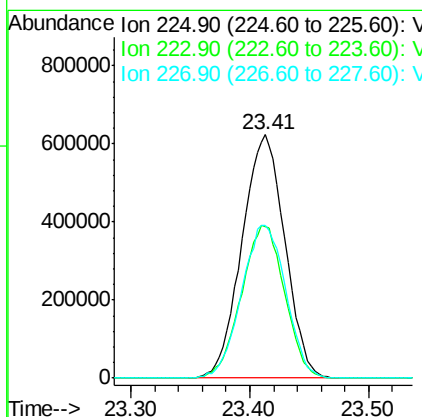
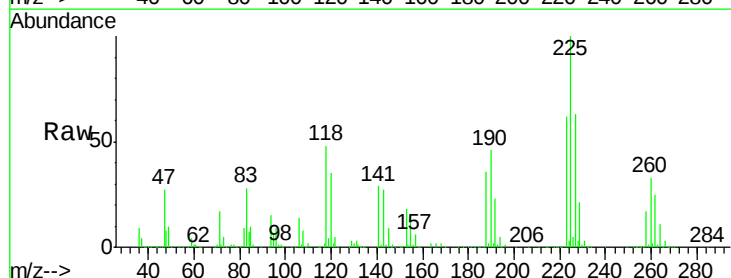
Manual Integrations  
 APPROVED

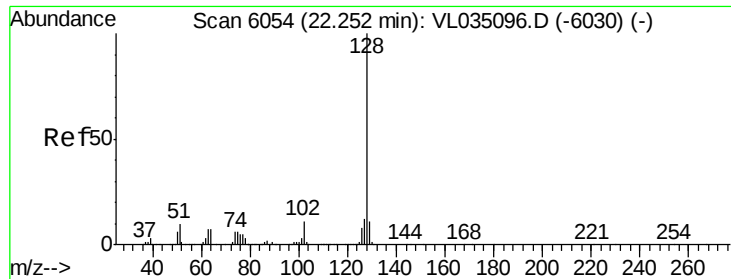
MMDadoda  
 7/9/2020 12:01:40 PM



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 11.054 ppbv  
 RT: 23.41 min Scan# 6415  
 Delta R.T. -0.01 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

Tgt Ion:225 Resp: 1553715  
 Ion Ratio Lower Upper  
 225 100  
 223 63.3 51.4 77.0  
 227 64.9 51.8 77.8





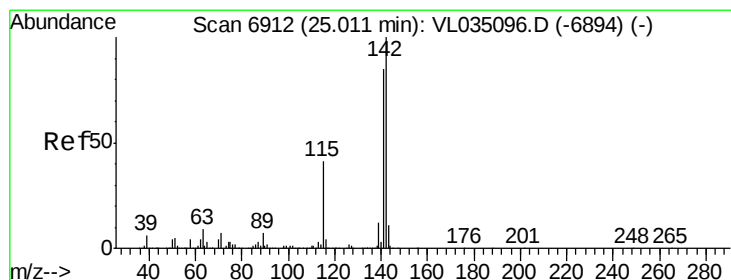
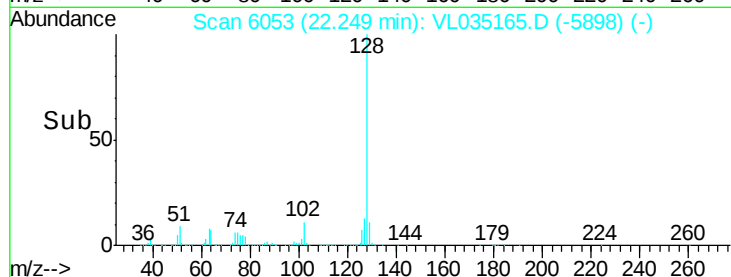
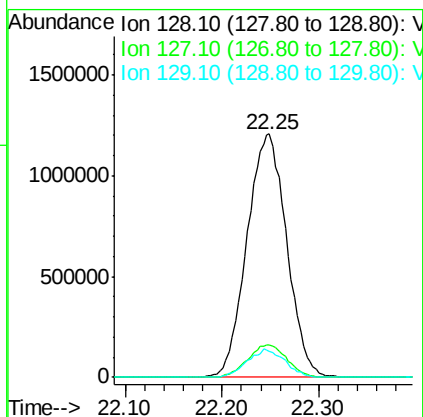
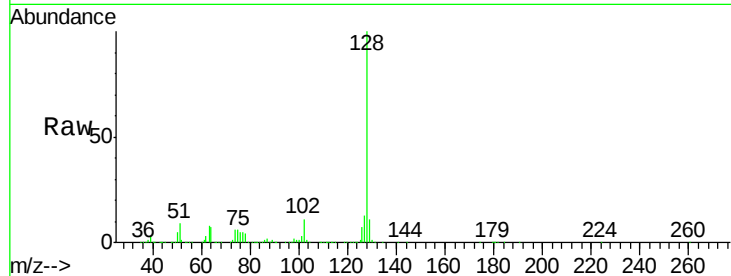
#79  
Naphthalene  
Concen: 13.683 ppbv  
RT: 22.25 min Scan# 6053  
Delta R.T. -0.00 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0706ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.4  | 9.9   | 14.9  |
| 129     | 10.5  | 9.0   | 13.4  |

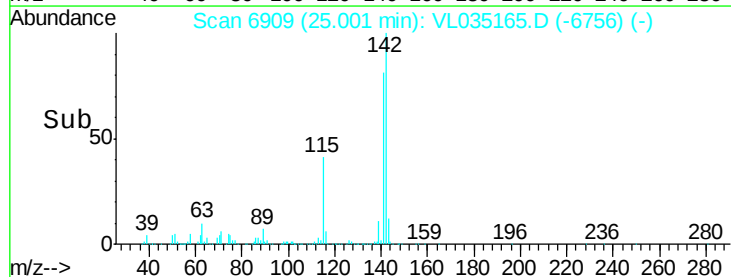
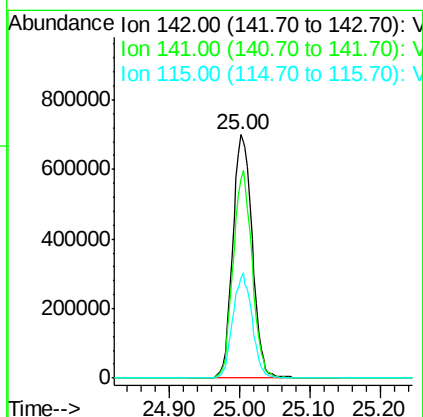
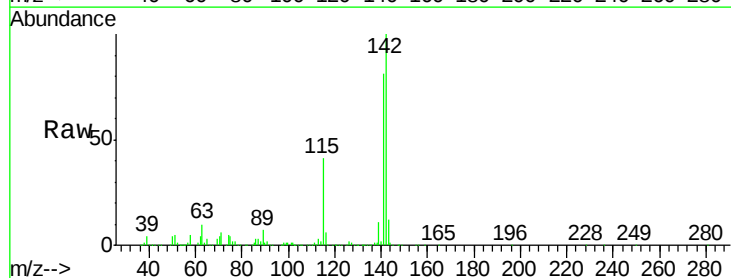
Manual Integrations  
APPROVED

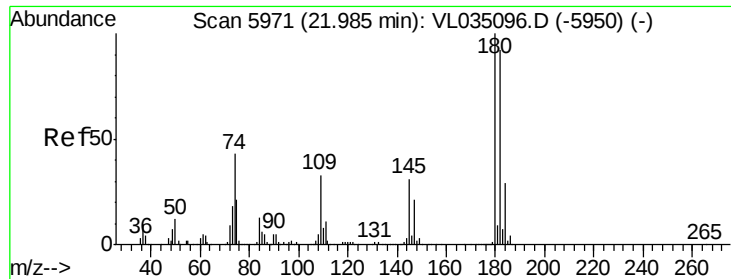
MMDadoda  
7/9/2020 12:01:40 PM



#80  
Naphthalene, 2-methyl-  
Concen: 14.119 ppbv  
RT: 25.00 min Scan# 6909  
Delta R.T. -0.01 min  
Lab File: VL035165.D  
Acq: 7 Jul 2020 5:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 82.8  | 67.5  | 101.3 |
| 115     | 42.5  | 33.8  | 50.8  |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 12.532 ppbv  
 RT: 21.98 min Scan# 5968  
 Delta R.T. -0.01 min  
 Lab File: VL035165.D  
 Acq: 7 Jul 2020 5:54

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0706ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.0  | 77.9  | 116.9 |
| 184     | 31.3  | 24.6  | 37.0  |

Manual Integrations  
 APPROVED

MMDadoda  
 7/9/2020 12:01:40 PM

