

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081220\  
 Data File : VL035380.D  
 Acq On : 12 Aug 2020 11:08  
 Operator : SY/AP  
 Sample : VSTDIC0.5  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

Manual Integrations  
 APPROVED

MMDadoda  
 8/17/2020 5:43:42 PM

Quant Time: Aug 12 15:30:26 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081220AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Aug 12 2020  
 QLast Update : Wed Aug 12 15:19:58 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 1330343  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 3112236  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 2998342  | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.44  | 95    | 2409070  | 9.63     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 96.30% |

| Target Compounds               |      |     |        |              | Ovalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 3.04 | 85  | 107108 | 0.605 ppbv   | 95     |
| 3) Chlorodifluoromethane       | 2.98 | 51  | 88845  | 0.585 ppbv   | 99     |
| 4) Chloromethane               | 3.13 | 50  | 50618  | 0.589 ppbv   | 99     |
| 5) Vinyl Chloride              | 3.25 | 62  | 46598  | 0.527 ppbv   | 97     |
| 6) Bromomethane                | 3.47 | 94  | 25990  | 0.480 ppbv   | 95     |
| 7) Chloroethane                | 3.56 | 64  | 16626  | 0.506 ppbv   | 96     |
| 8) Dichlorotetrafluoroethane   | 3.18 | 85  | 109871 | 0.525 ppbv   | 96     |
| 9) Propene                     | 3.01 | 41  | 49097  | 0.907 ppbv   | 96     |
| 10) Heptane                    | 8.13 | 43  | 118750 | 0.859 ppbv   | 99     |
| 11) Trichlorofluoromethane     | 3.95 | 101 | 111115 | 0.485 ppbv   | 91     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49 | 101 | 71894  | 0.439 ppbv   | 100    |
| 13) Ethanol                    | 3.61 | 45  | 21530  | 1.154 ppbv   | 84     |
| 14) Bromoethene                | 3.74 | 108 | 33349  | 0.508 ppbv   | 94     |
| 15) Acetone                    | 3.86 | 43  | 112856 | 0.597 ppbv   | 93     |
| 16) 1,3-Butadiene              | 3.32 | 39  | 45442m | 0.625 ppbv   |        |
| 17) tert-Butyl alcohol         | 4.31 | 59  | 114859 | 0.662 ppbv   | 97     |
| 18) 1,1-Dichloroethene         | 4.29 | 96  | 34513  | 0.490 ppbv   | 88     |
| 19) Isopropyl Alcohol          | 3.98 | 45  | 79455  | 0.663 ppbv # | 46     |
| 20) Methylene Chloride         | 4.34 | 84  | 41920  | 0.544 ppbv   | 96     |
| 21) Allyl Chloride             | 4.41 | 41  | 58040  | 0.536 ppbv   | 88     |
| 22) trans-1,2-Dichloroethene   | 4.89 | 96  | 33220  | 0.487 ppbv   | 89     |
| 23) Vinyl Acetate              | 5.08 | 43  | 185049 | 1.022 ppbv # | 94     |
| 24) 1,1-Dichloroethane         | 5.02 | 63  | 97926  | 0.575 ppbv   | 98     |
| 25) Ethyl Acetate              | 5.68 | 43  | 199952 | 0.697 ppbv   | 97     |
| 26) Hexane                     | 5.69 | 57  | 89094  | 0.716 ppbv   | 98     |
| 27) Carbon Disulfide           | 4.55 | 76  | 85442  | 0.491 ppbv # | 61     |
| 28) Methyl tert-Butyl Ether    | 5.05 | 73  | 141203 | 0.780 ppbv   | 99     |
| 29) Chloroform                 | 5.75 | 83  | 121164 | 0.564 ppbv   | 95     |
| 30) Cyclohexane                | 7.13 | 84  | 72105  | 0.764 ppbv   | 98     |
| 31) cis-1,2-Dichloroethene     | 5.55 | 61  | 81728  | 0.738 ppbv # | 93     |
| 32) 1,1,1-Trichloroethane      | 6.52 | 97  | 120438 | 0.534 ppbv   | 98     |
| 34) 2-Butanone                 | 5.26 | 43  | 128323 | 0.837 ppbv   | 98     |
| 35) Carbon Tetrachloride       | 7.02 | 117 | 115234 | 0.538 ppbv   | 94     |
| 36) Benzene                    | 6.90 | 78  | 174442 | 0.830 ppbv   | 98     |
| 37) 1,2-Dichloroethane         | 6.31 | 62  | 93161  | 0.635 ppbv   | 98     |
| 38) Trichloroethene            | 7.84 | 130 | 62922m | 0.649 ppbv   |        |
| 39) 1,2-Dichloropropane        | 7.62 | 63  | 69017  | 0.811 ppbv   | 87     |
| 40) 1,4-Dioxane                | 7.87 | 88  | 32308m | 0.887 ppbv   |        |
| 41) Tetrahydrofuran            | 6.08 | 42  | 80818m | 1.075 ppbv   |        |
| 42) Bromodichloromethane       | 7.80 | 83  | 129440 | 0.657 ppbv   | 98     |
| 43) Methyl Methacrylate        | 8.03 | 69  | 76493  | 0.865 ppbv   | 97     |

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Manual Integrations  
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Aug 12 2020  
 QLast Update : Wed Aug 12 15:19:58 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.88  | 57   | 311712   | 0.835 | ppbv   | 98       |
| 45) t-1,3-Dichloropropene     | 9.29  | 75   | 85919    | 0.937 | ppbv   | 98       |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 103390   | 0.933 | ppbv   | 92       |
| 47) 1,1,2-Trichloroethane     | 9.48  | 97   | 67914m   | 0.664 | ppbv   |          |
| 48) Dibromochloromethane      | 10.31 | 129  | 101185m  | 0.604 | ppbv   |          |
| 49) Bromoform                 | 13.06 | 173  | 82905    | 0.543 | ppbv   | 96       |
| 50) 4-Methyl-2-Pentanone      | 8.77  | 43   | 204571   | 0.874 | ppbv   | 99       |
| 51) 2-Hexanone                | 10.16 | 43   | 173532   | 0.946 | ppbv # | 100      |
| 52) Tetrachloroethene         | 11.24 | 164  | 57118    | 0.686 | ppbv # | 83       |
| 53) Toluene                   | 9.82  | 91   | 210285   | 0.920 | ppbv   | 97       |
| 54) 1,2-Dibromoethane         | 10.63 | 107  | 110278m  | 0.751 | ppbv   |          |
| 56) 1,1,1,2-Tetrachloroethane | 12.14 | 131  | 84217m   | 0.595 | ppbv   |          |
| 57) Chlorobenzene             | 12.16 | 112  | 159028   | 0.704 | ppbv   | 91       |
| 58) Ethyl Benzene             | 12.73 | 91   | 285438   | 0.915 | ppbv   | 98       |
| 59) m/p-Xylene                | 12.99 | 91   | 491964m  | 1.693 | ppbv   |          |
| 60) o-Xylene                  | 13.71 | 91   | 227682   | 0.790 | ppbv   | 97       |
| 61) Styrene                   | 13.55 | 104  | 167191   | 0.950 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.68 | 105  | 356849   | 0.822 | ppbv   | 96       |
| 63) 1,1,2,2-Tetrachloroethane | 13.70 | 83   | 161584   | 0.657 | ppbv   | 99       |
| 64) n-propylbenzene           | 15.58 | 120  | 85521    | 0.733 | ppbv   | 70       |
| 65) tert-Butylbenzene         | 16.77 | 119  | 322480   | 0.811 | ppbv   | 96       |
| 66) Benzyl Chloride           | 17.01 | 91   | 126546   | 0.804 | ppbv   | 96       |
| 67) sec-Butylbenzene          | 17.31 | 105  | 456488   | 0.812 | ppbv   | 96       |
| 69) p-Isopropyltoluene        | 17.67 | 119  | 379292   | 0.827 | ppbv   | 98       |
| 70) n-Butylbenzene            | 18.57 | 91   | 417990   | 0.853 | ppbv   | 97       |
| 71) 2-Chlorotoluene           | 15.47 | 91   | 282849   | 0.890 | ppbv   | 97       |
| 72) 4-Ethyltoluene            | 15.87 | 105  | 277537   | 0.844 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 16.01 | 105  | 272548   | 0.864 | ppbv   | 92       |
| 74) 1,2,4-Trimethylbenzene    | 16.78 | 105  | 285026   | 0.791 | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 17.01 | 146  | 155770   | 0.661 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.16 | 146  | 162217m  | 0.743 | ppbv   |          |
| 77) 1,2-Dichlorobenzene       | 17.84 | 146  | 154695   | 0.711 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.40 | 225  | 121403   | 0.656 | ppbv   | 98       |
| 79) Naphthalene               | 22.23 | 128  | 390090   | 1.407 | ppbv   | 98       |
| 80) Naphthalene, 2-methyl-    | 24.99 | 142  | 213703   | 3.388 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 21.96 | 180  | 181538m  | 1.039 | ppbv   |          |

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

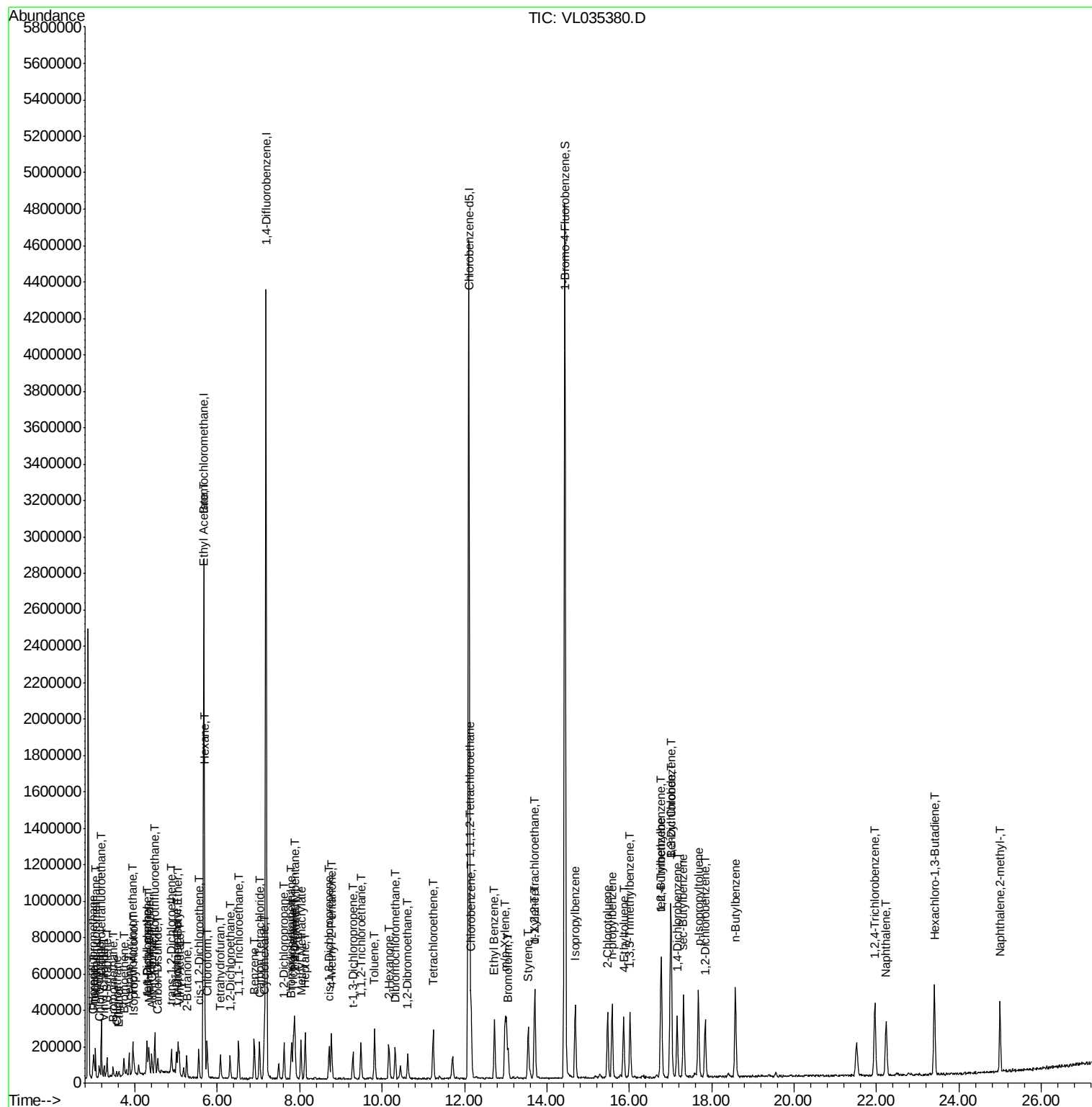
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081220\  
Data File : VL035380.D  
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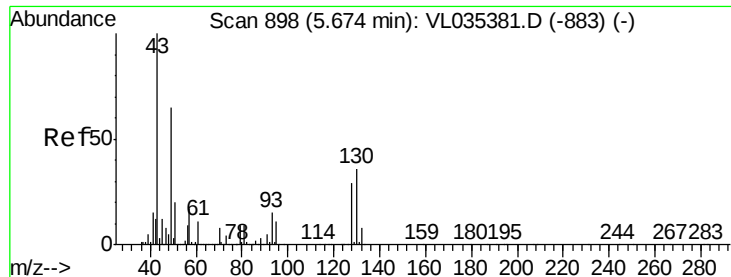
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Aug  
QLast Update : Wed Aug 12 15:19:58 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL035380.D

Acq: 12 Aug 2020 11:08

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 49 Resp: 1330343

Ion Ratio Lower Upper

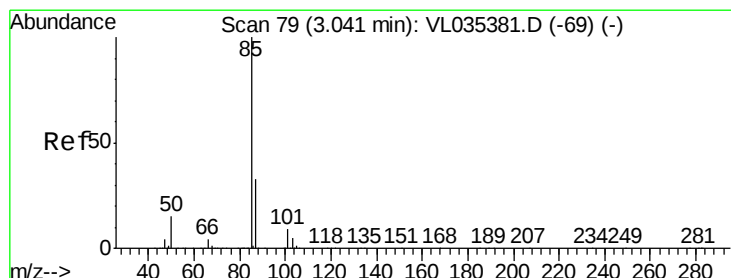
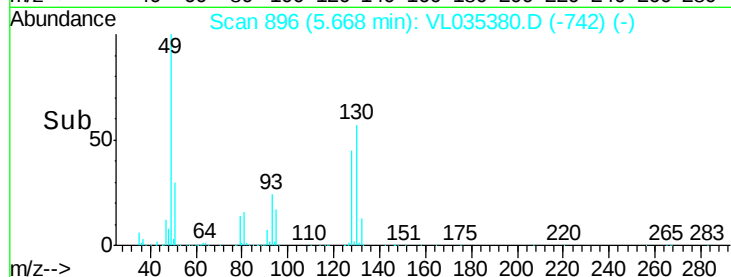
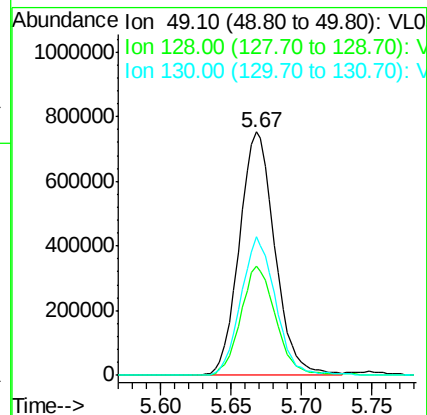
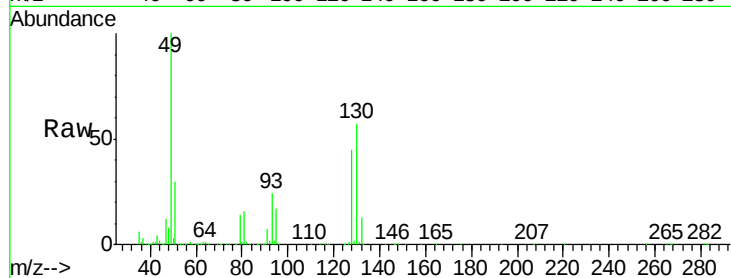
49 100

128 44.5 21.8 65.3

130 55.7 27.9 83.6

Manual Integrations  
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8/17/2020 5:43:42 PM



#2

Dichlorodifluoromethane

Concen: 0.605 ppbv

RT: 3.04 min Scan# 79

Delta R.T. 0.00 min

Lab File: VL035380.D

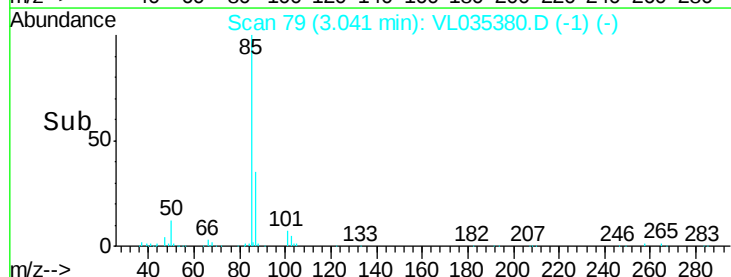
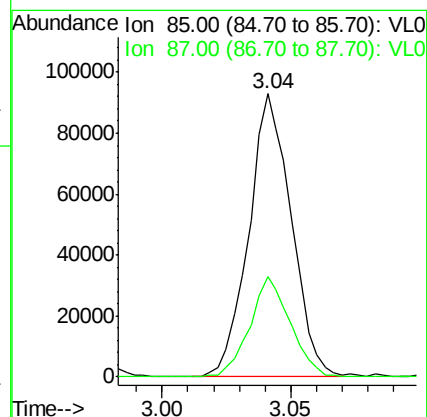
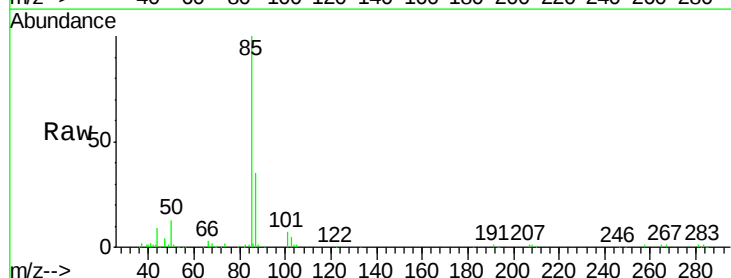
Acq: 12 Aug 2020 11:08

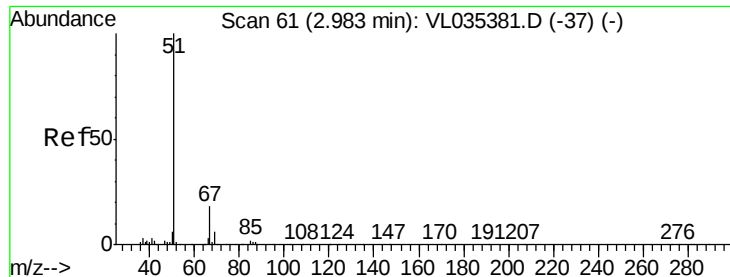
Tgt Ion: 85 Resp: 107108

Ion Ratio Lower Upper

85 100

87 35.3 26.1 39.1





#3

Chlorodifluoromethane

Concen: 0.585 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.00 min

Lab File: VL035380.D

Acq: 12 Aug 2020 11:08

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 51 Resp: 88845

Ion Ratio Lower Upper

51 100

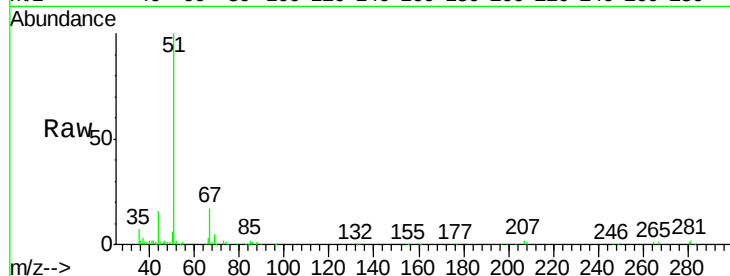
67 18.2 14.1 21.1

Manual Integrations

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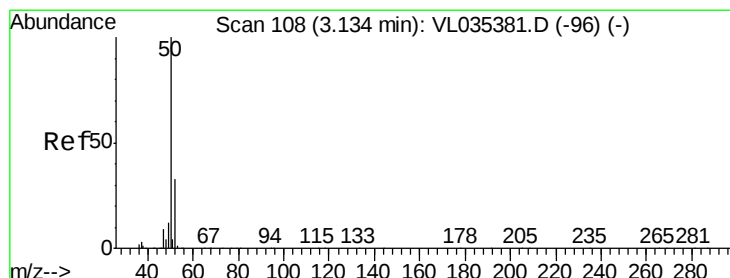
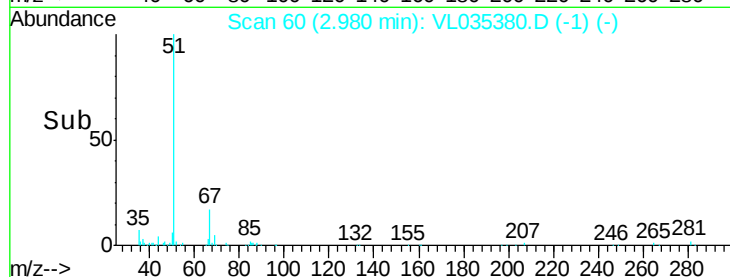
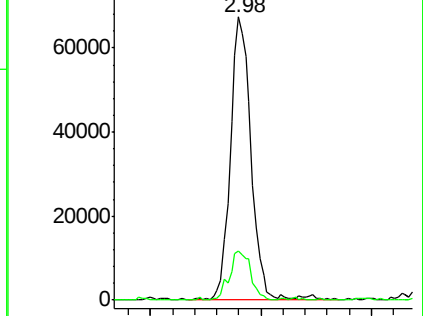
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.589 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.00 min

Lab File: VL035380.D

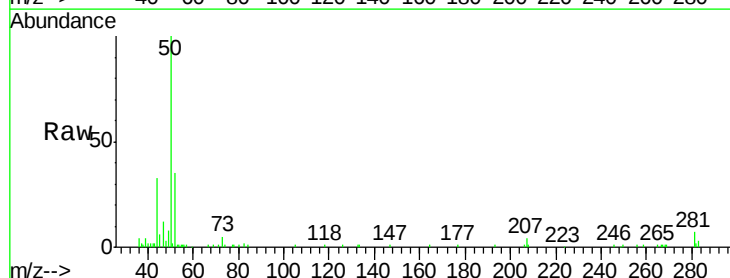
Acq: 12 Aug 2020 11:08

Tgt Ion: 50 Resp: 50618

Ion Ratio Lower Upper

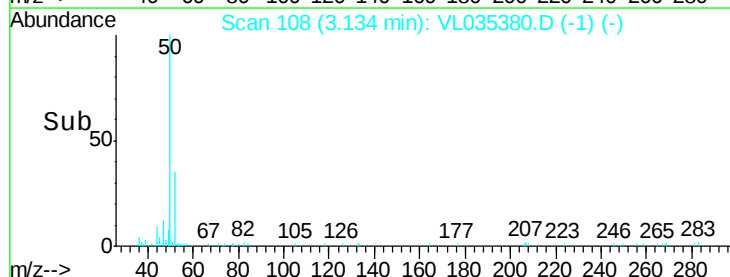
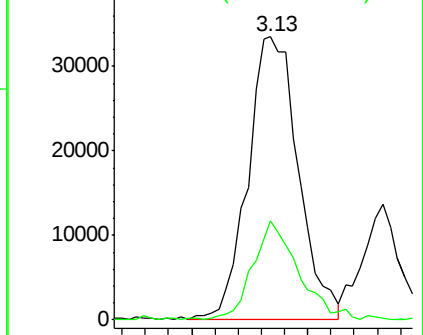
50 100

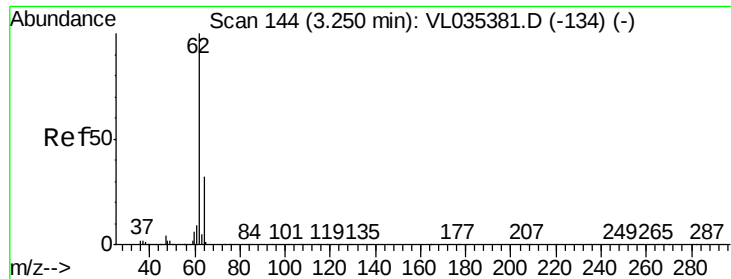
52 32.8 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.527 ppbv

RT: 3.25 min Scan# 145

Delta R.T. 0.00 min

Lab File: VL035380.D

Acq: 12 Aug 2020 11:08

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 46598

Ion Ratio Lower Upper

62 100

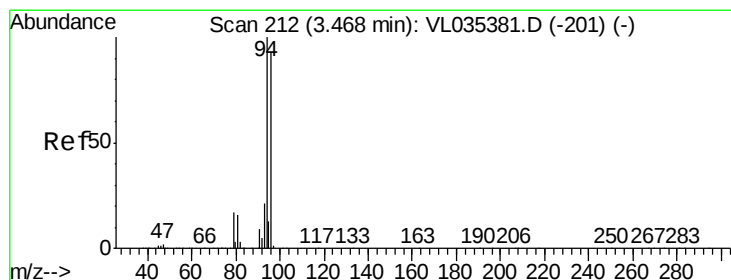
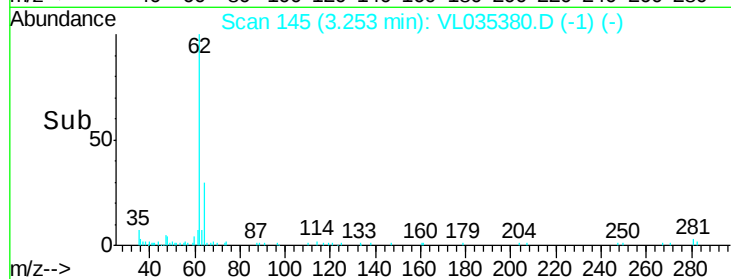
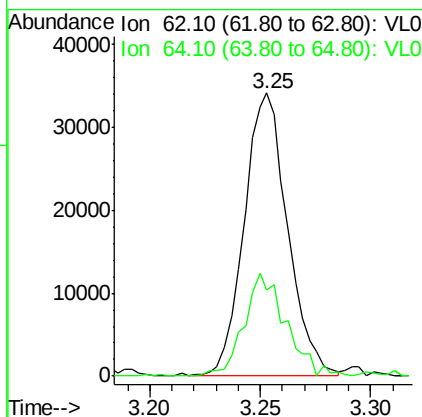
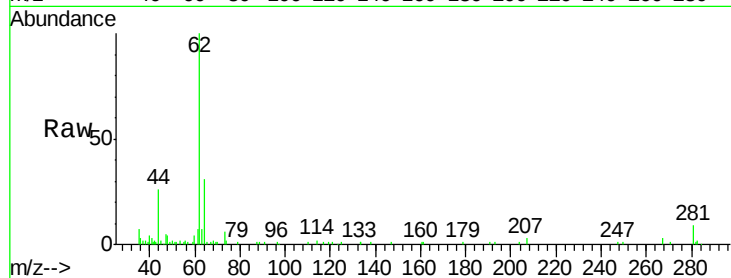
64 30.7 25.7 38.5

Manual Integrations

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#6

Bromomethane

Concen: 0.480 ppbv

RT: 3.47 min Scan# 212

Delta R.T. 0.00 min

Lab File: VL035380.D

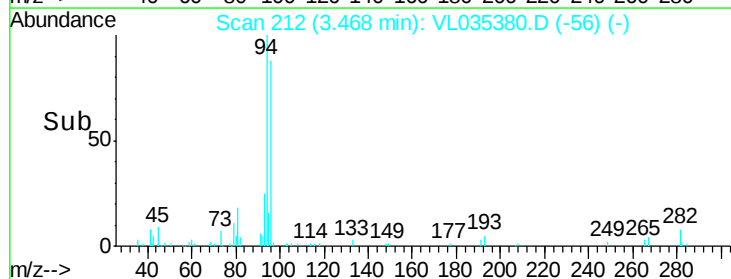
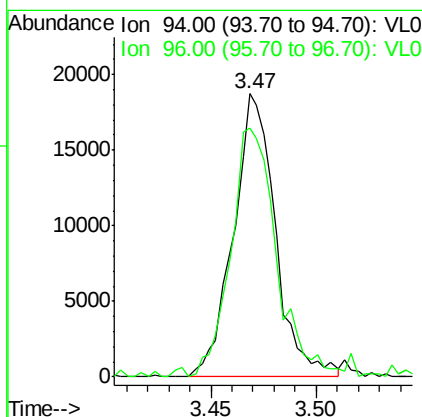
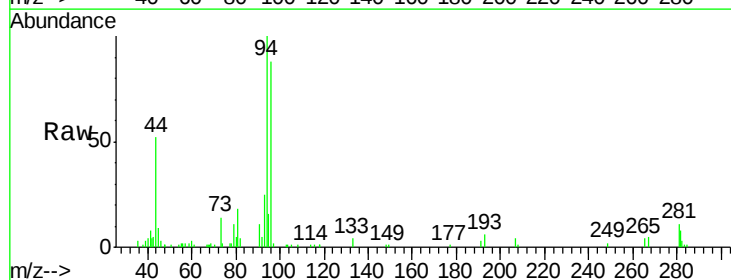
Acq: 12 Aug 2020 11:08

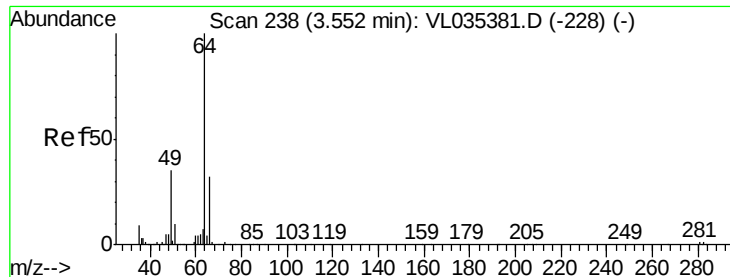
Tgt Ion: 94 Resp: 25990

Ion Ratio Lower Upper

94 100

96 88.1 74.4 111.6





#7

Chloroethane

Concen: 0.506 ppbv

RT: 3.56 min Scan# 240

Delta R.T. 0.01 min

Lab File: VL035380.D

Acq: 12 Aug 2020 11:08

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 16626

Ion Ratio Lower Upper

64 100

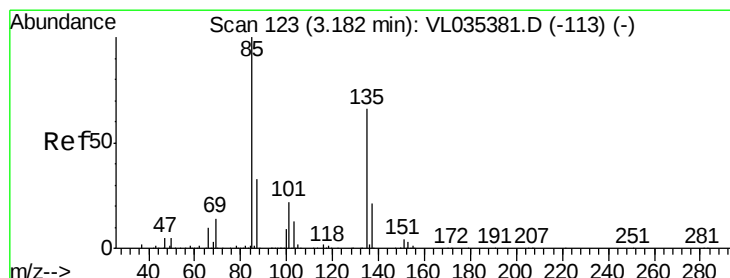
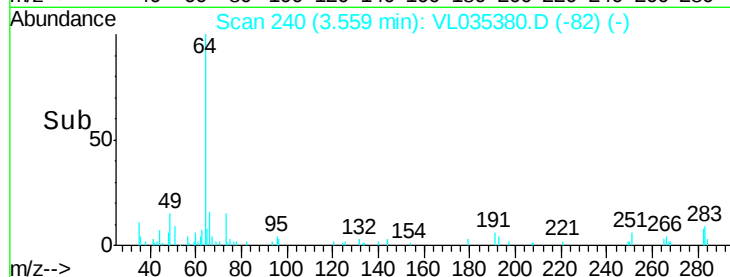
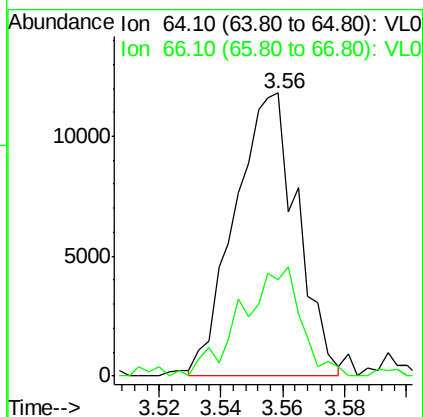
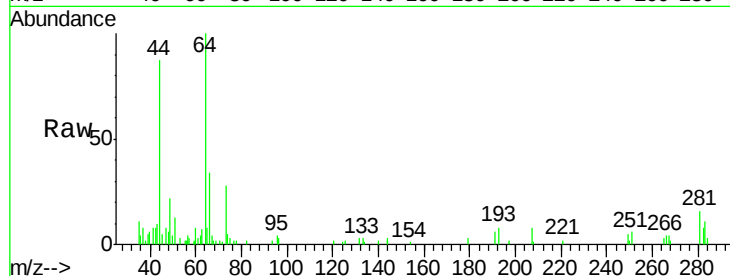
66 34.3 25.7 38.5

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 0.525 ppbv

RT: 3.18 min Scan# 123

Delta R.T. 0.00 min

Lab File: VL035380.D

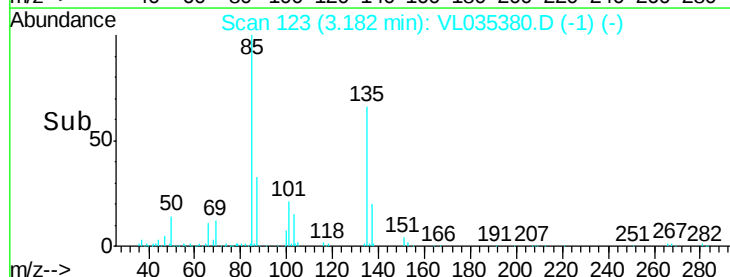
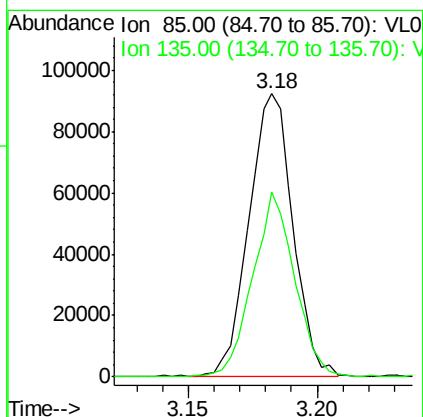
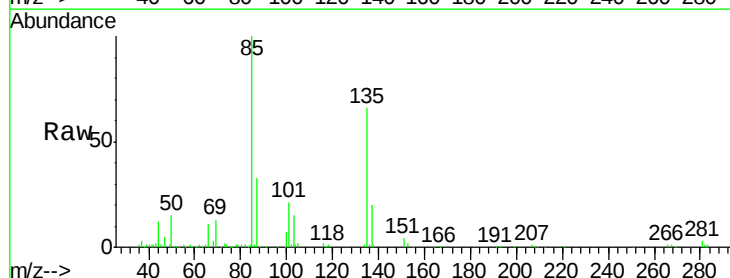
Acq: 12 Aug 2020 11:08

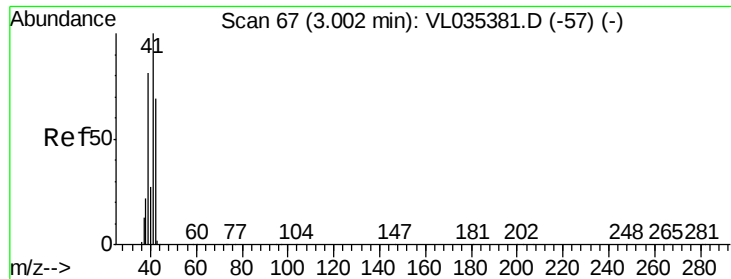
Tgt Ion: 85 Resp: 109871

Ion Ratio Lower Upper

85 100

135 62.5 52.5 78.7





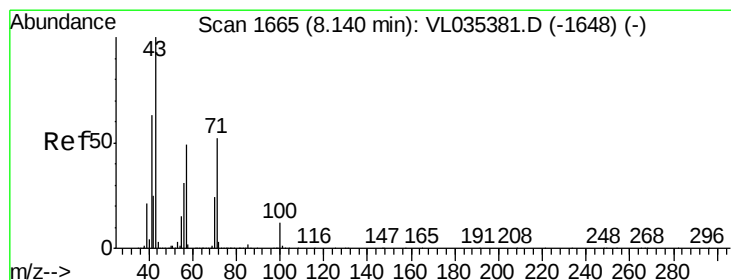
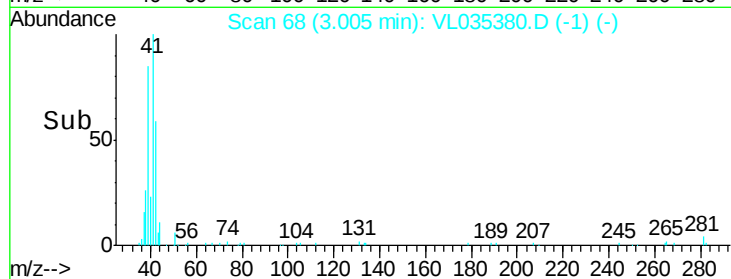
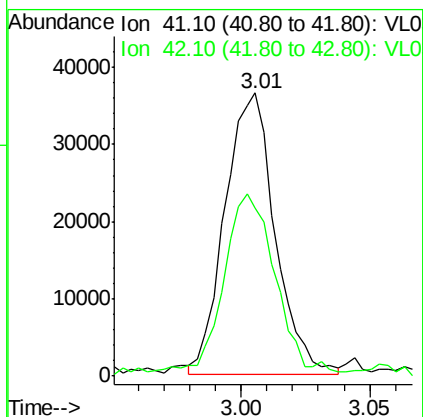
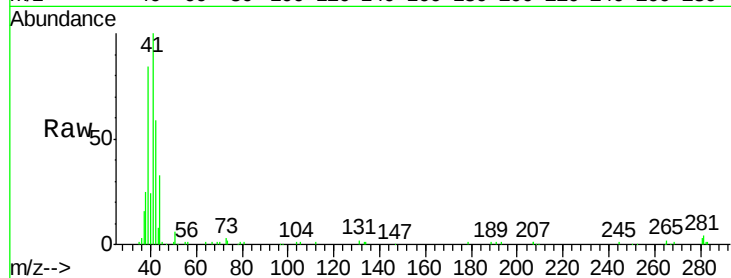
#9  
 Propene  
 Concen: 0.907 ppbv  
 RT: 3.01 min Scan# 68  
 Delta R.T. 0.00 min  
 Lab File: VL035380.D  
 Acq: 12 Aug 2020 11:08

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

Tot Ion: 41 Resp: 49097  
 Ion Ratio Lower Upper  
 41 100  
 42 72.9 55.4 83.2

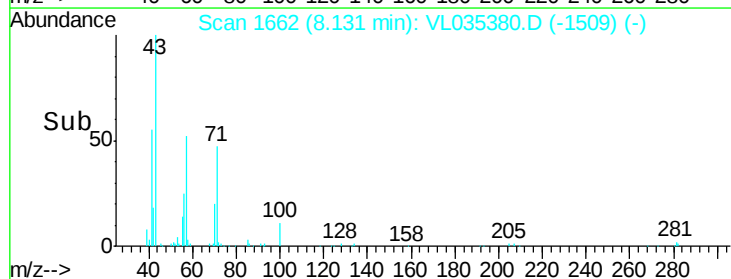
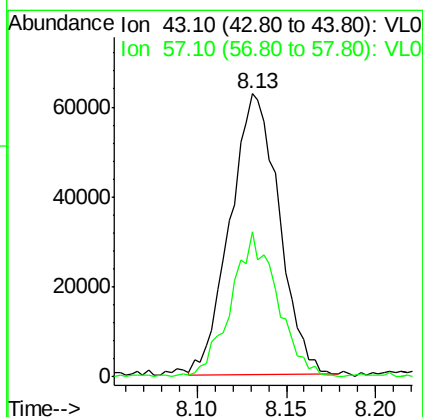
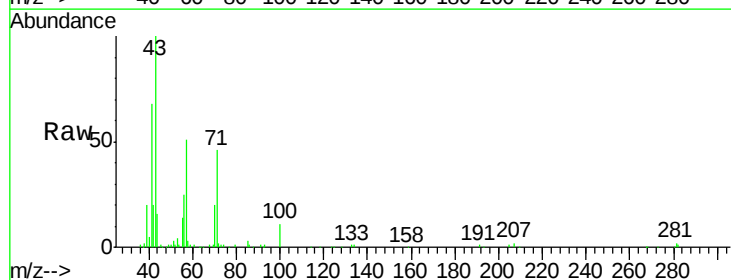
Manual Integrations  
 APPROVED

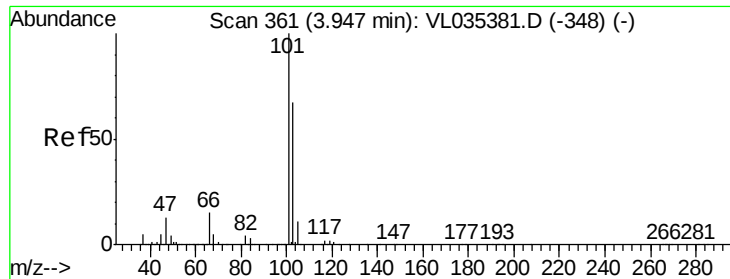
MMDadoda  
 8/17/2020 5:43:42 PM



#10  
 Heptane  
 Concen: 0.859 ppbv  
 RT: 8.13 min Scan# 1662  
 Delta R.T. -0.01 min  
 Lab File: VL035380.D  
 Acq: 12 Aug 2020 11:08

Tgt Ion: 43 Resp: 118750  
 Ion Ratio Lower Upper  
 43 100  
 57 48.6 39.4 59.2





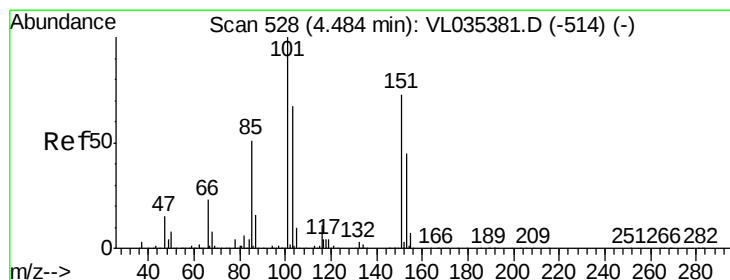
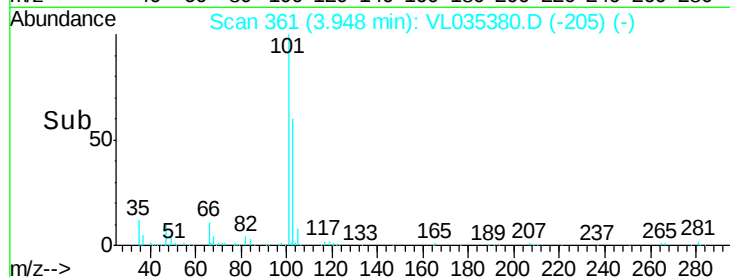
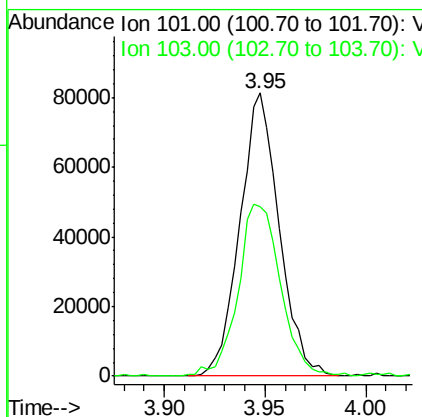
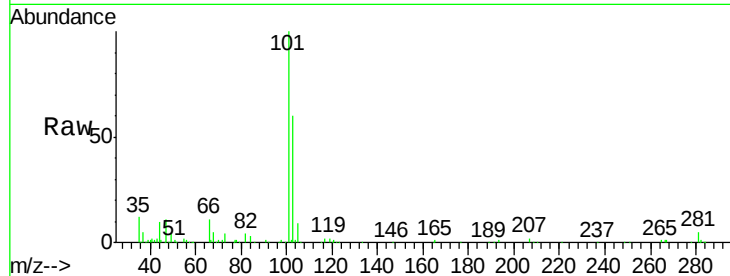
#11  
 Trichlorofluoromethane  
 Concen: 0.485 ppbv  
 RT: 3.95 min Scan# 361  
 Delta R.T. 0.00 min  
 Lab File: VL035380.D  
 Acq: 12 Aug 2020 11:08

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 59.6  | 53.3  | 79.9  |

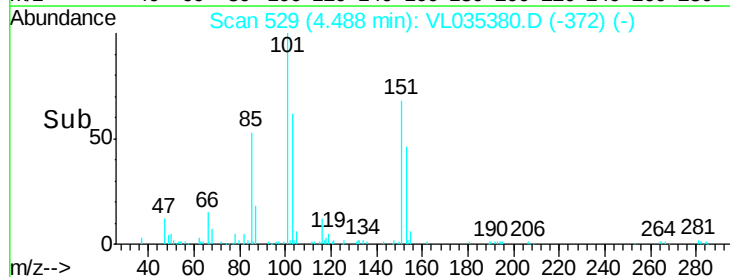
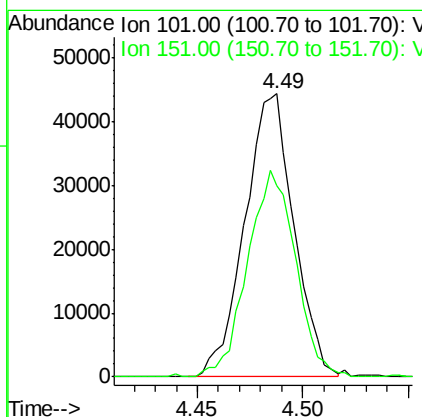
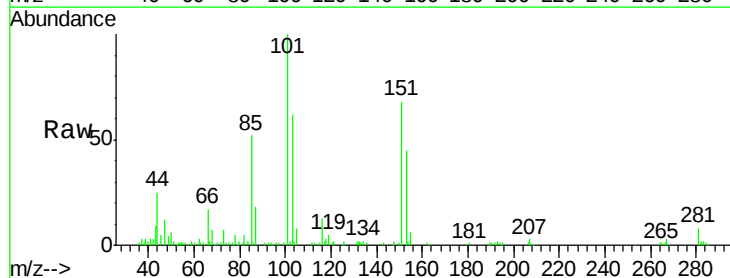
Manual Integrations  
 APPROVED

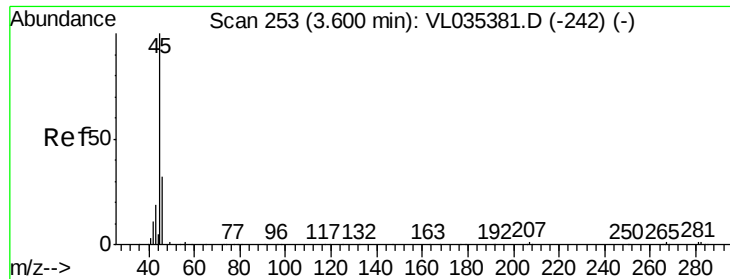
MMDadoda  
 8/17/2020 5:43:42 PM



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.439 ppbv  
 RT: 4.49 min Scan# 529  
 Delta R.T. 0.00 min  
 Lab File: VL035380.D  
 Acq: 12 Aug 2020 11:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 151     | 71.4  | 57.0  | 85.6  |





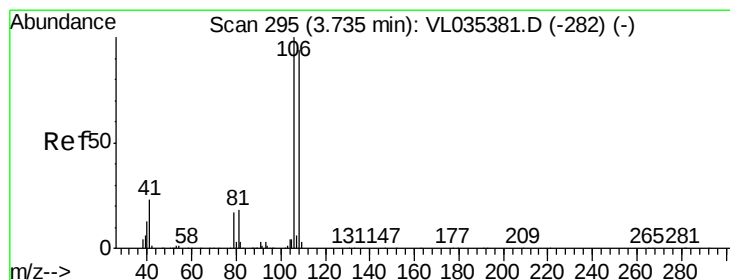
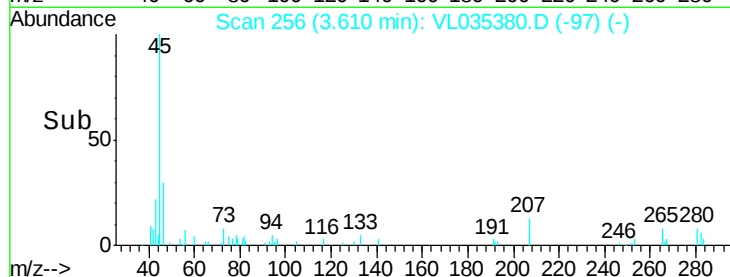
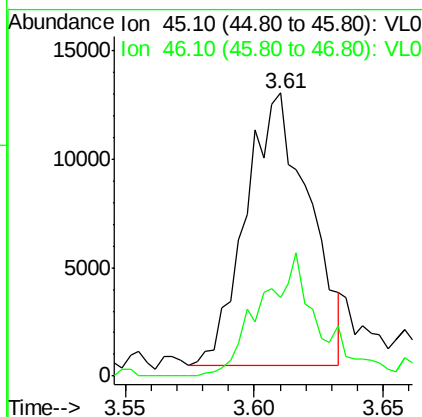
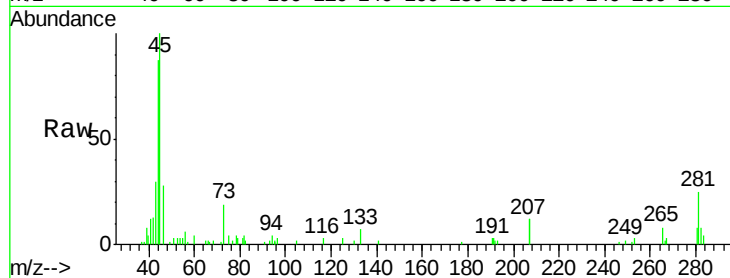
#13  
Ethanol  
Concen: 1.154 ppbv  
RT: 3.61 min Scan# 256  
Delta R.T. 0.01 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 46      | 44.7  | 14.1  | 56.3  |

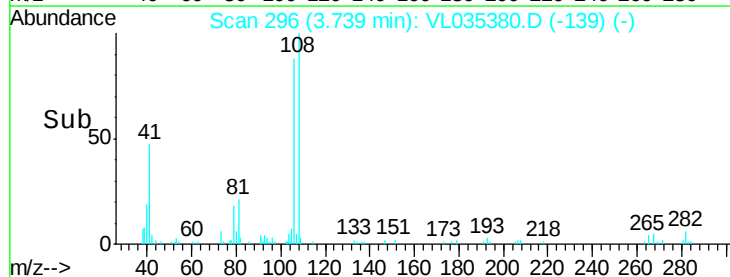
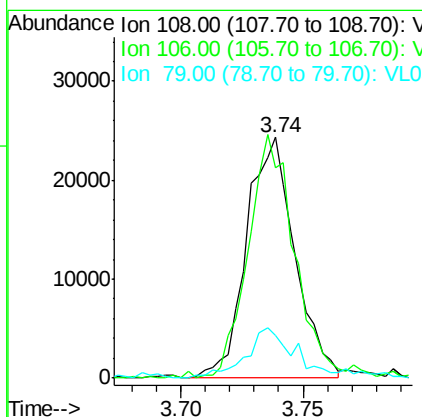
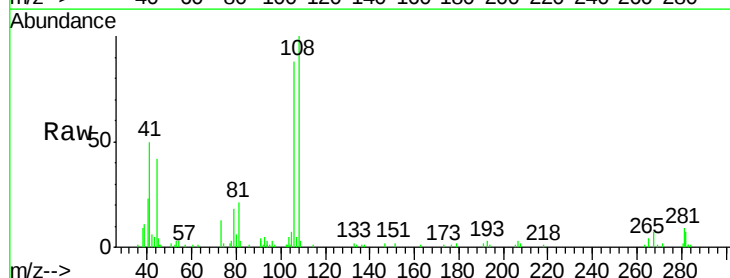
Manual Integrations  
APPROVED

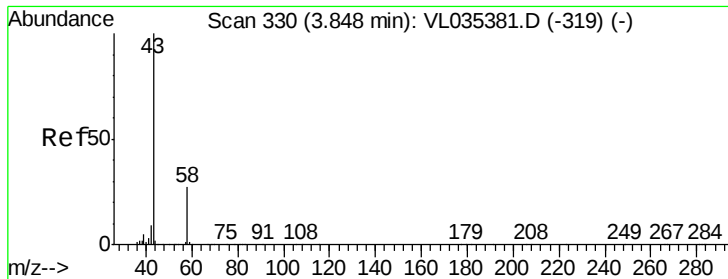
MMDadoda  
8/17/2020 5:43:42 PM



#14  
Bromoethene  
Concen: 0.508 ppbv  
RT: 3.74 min Scan# 296  
Delta R.T. 0.00 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 108     | 100   |       |       |
| 106     | 99.7  | 84.9  | 127.3 |
| 79      | 23.1  | 15.8  | 23.8  |





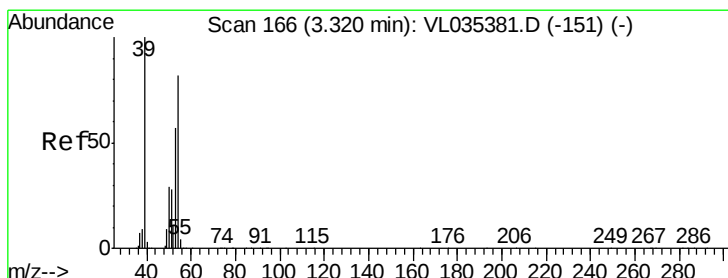
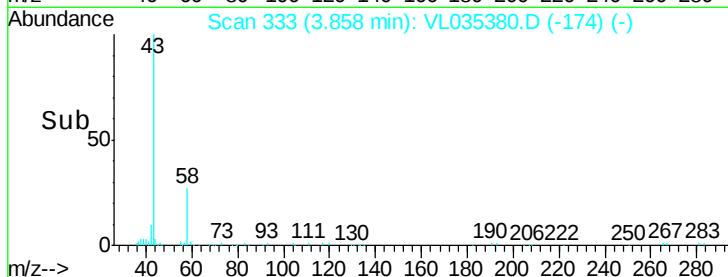
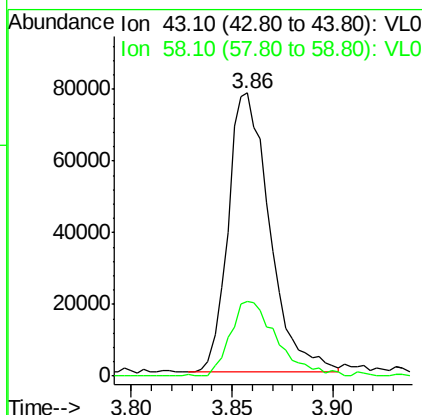
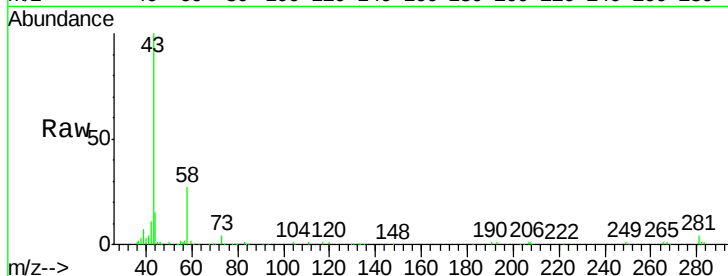
#15  
Acetone  
Concen: 0.597 ppbv  
RT: 3.86 min Scan# 333  
Delta R.T. 0.01 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tot Ion: 43 Resp: 112856  
Ion Ratio Lower Upper  
43 100  
58 30.5 21.7 32.5

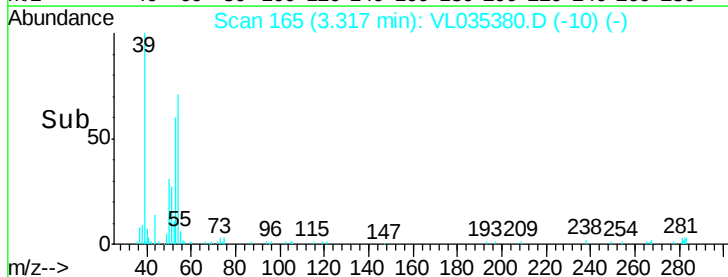
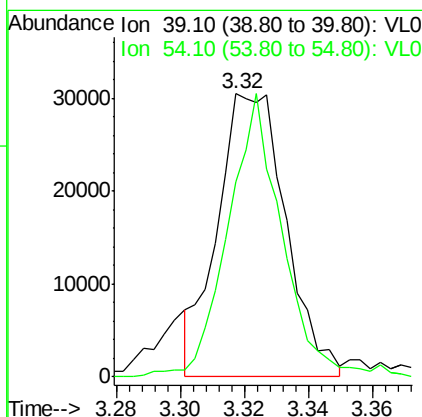
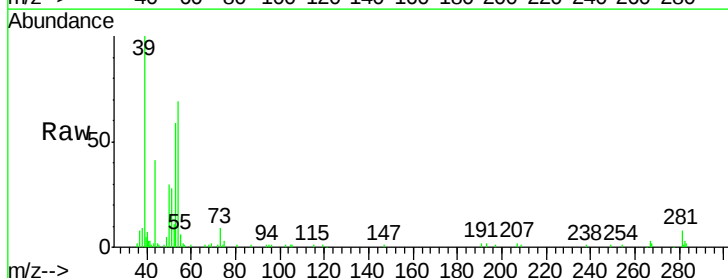
Manual Integrations  
APPROVED

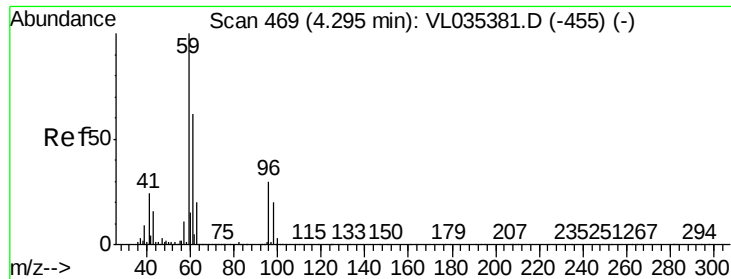
MMDadoda  
8/17/2020 5:43:42 PM



#16  
1,3-Butadiene  
Concen: 0.625 ppbv m  
RT: 3.32 min Scan# 165  
Delta R.T. -0.00 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

Tgt Ion: 39 Resp: 45442  
Ion Ratio Lower Upper  
39 100  
54 0.0 64.9 97.3#





#17

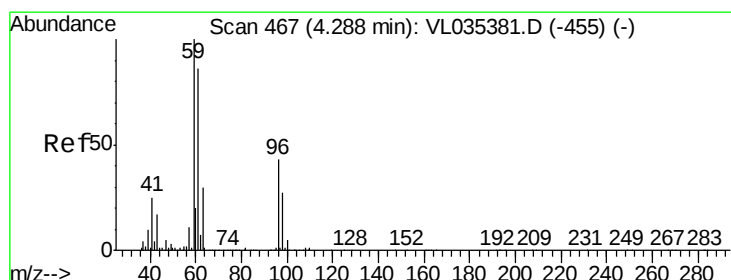
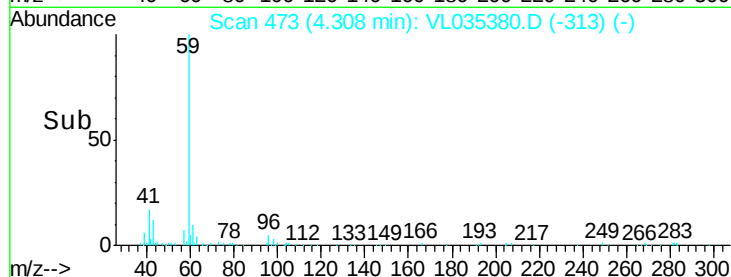
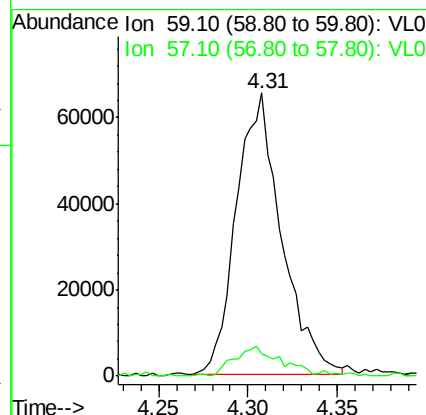
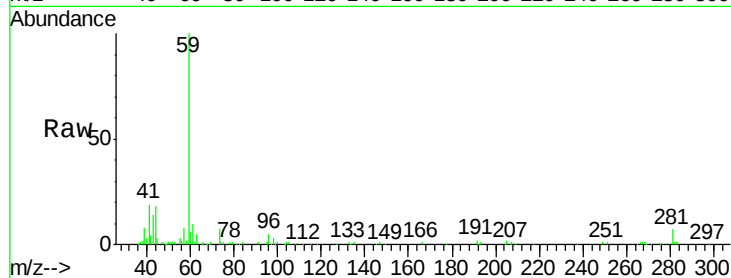
tert-Butyl alcohol  
Concen: 0.662 ppbv  
RT: 4.31 min Scan# 473  
Delta R.T. 0.01 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 11.9  | 8.6   | 13.0  |

Manual Integrations  
APPROVED

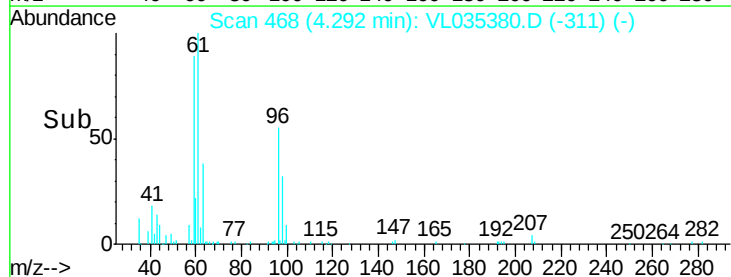
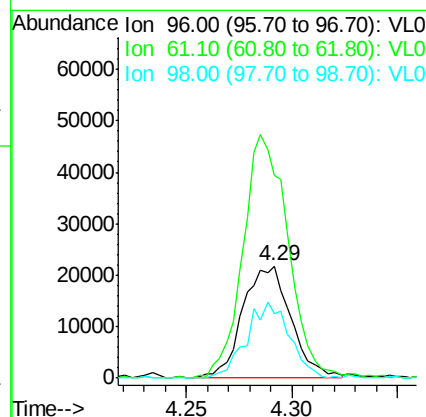
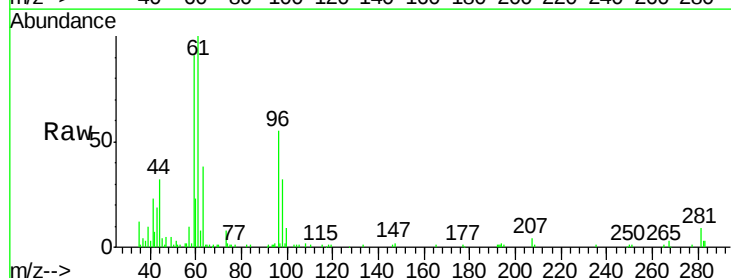
MMDadoda  
8/17/2020 5:43:42 PM

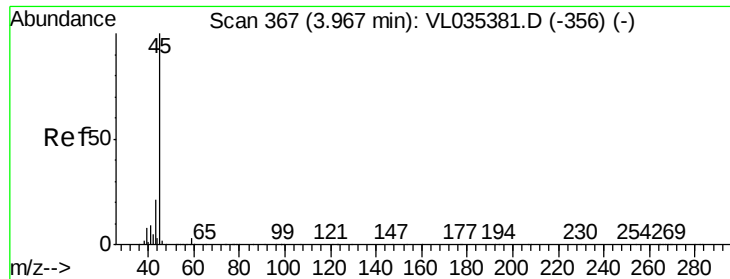


#18

1,1-Dichloroethene  
Concen: 0.490 ppbv  
RT: 4.29 min Scan# 468  
Delta R.T. 0.00 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 179.4 | 159.0 | 238.4 |
| 98      | 57.0  | 50.3  | 75.5  |





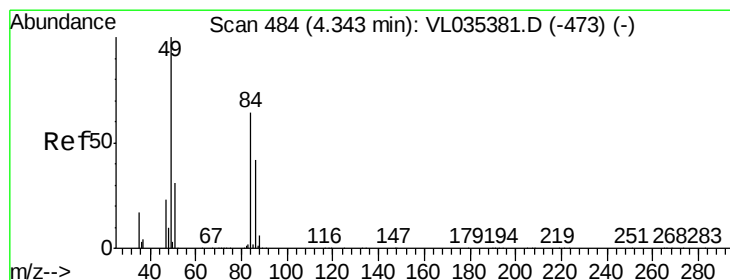
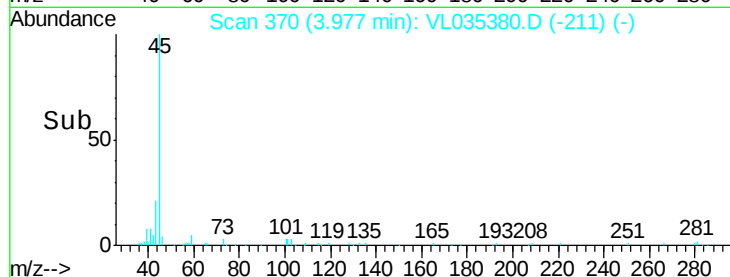
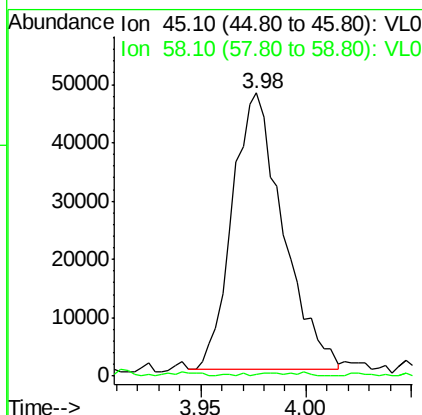
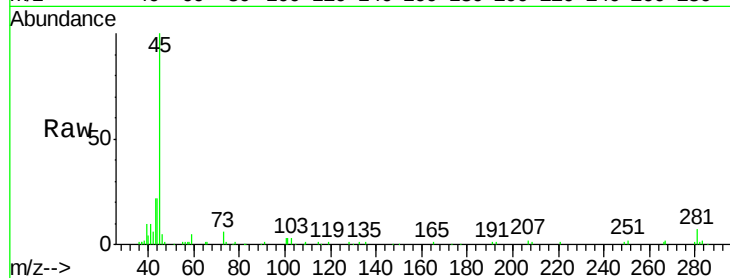
#19  
Isopropyl Alcohol  
Concen: 0.663 ppbv  
RT: 3.98 min Scan# 370  
Delta R.T. 0.01 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tot Ion: 45 Resp: 79455  
Ion Ratio Lower Upper  
45 100  
58 1.6 24.9 37.3#

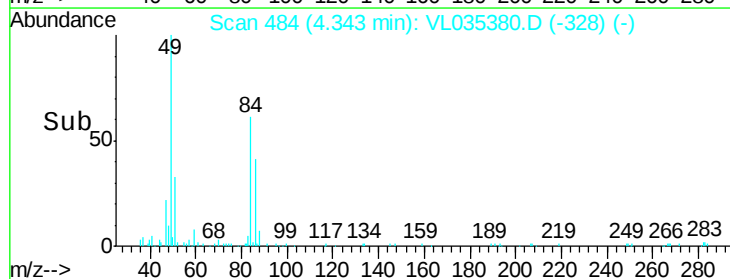
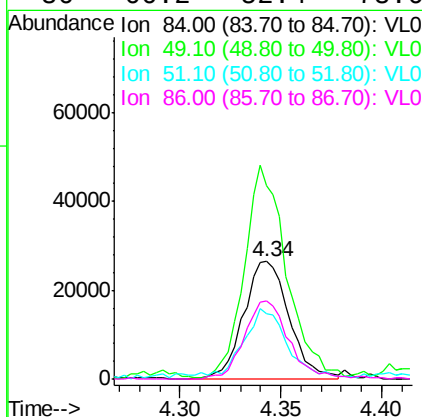
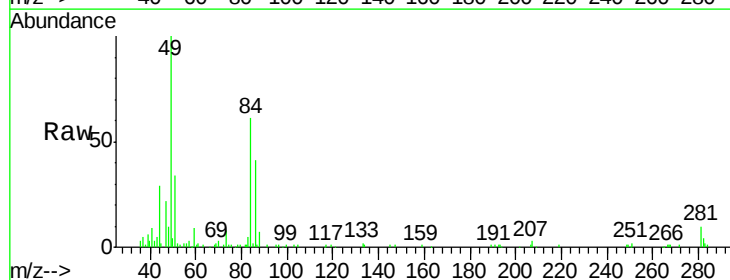
Manual Integrations  
APPROVED

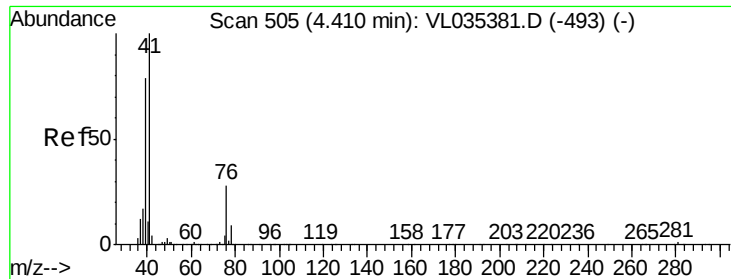
MMDadoda  
8/17/2020 5:43:42 PM



#20  
Methylene Chloride  
Concen: 0.544 ppbv  
RT: 4.34 min Scan# 484  
Delta R.T. 0.00 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

Tgt Ion: 84 Resp: 41920  
Ion Ratio Lower Upper  
84 100  
49 162.6 125.7 188.5  
51 53.6 38.5 57.7  
86 66.2 52.4 78.6





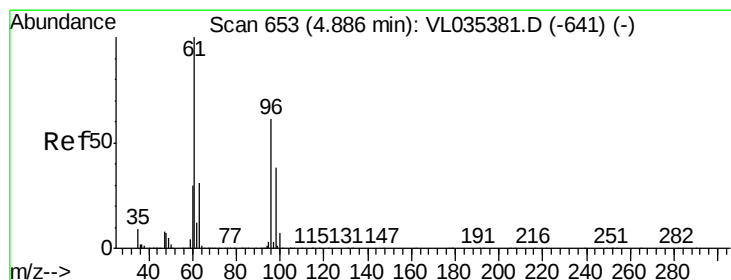
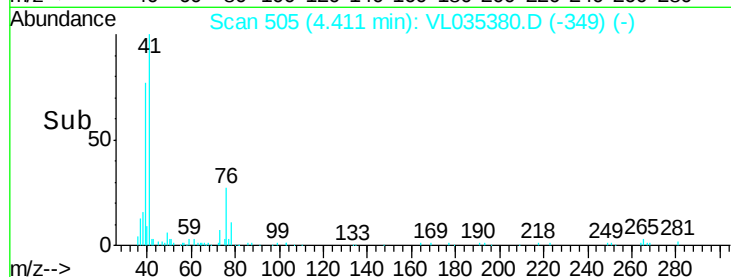
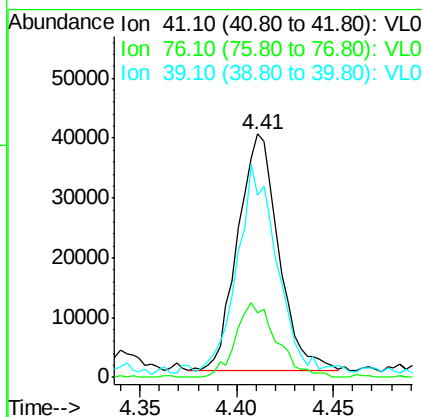
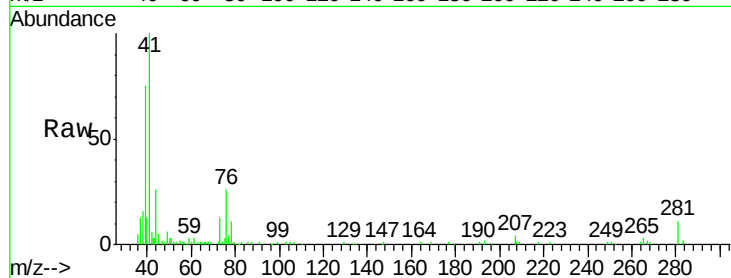
#21  
Allvl Chloride  
Concen: 0.536 ppbv  
RT: 4.41 min Scan# 505  
Delta R.T. 0.00 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 41    | Resp: | 58040 |
| Ion Ratio | Lower | Upper |       |
| 41        | 100   |       |       |
| 76        | 32.3  | 22.4  | 33.6  |
| 39        | 90.1  | 63.0  | 94.4  |

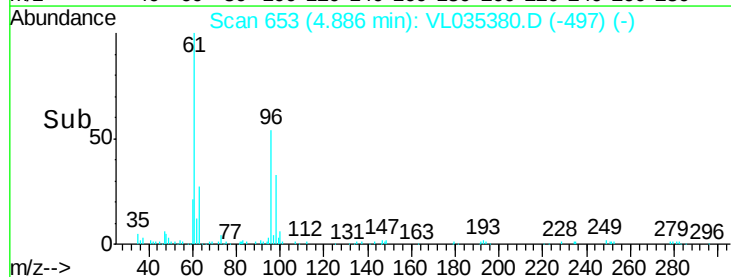
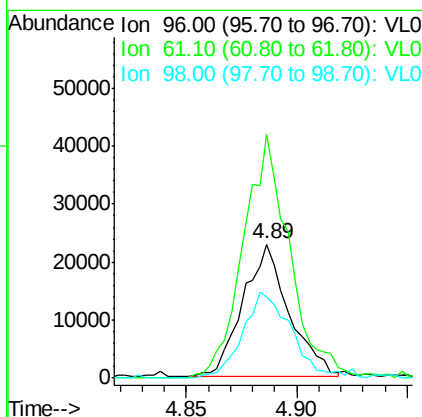
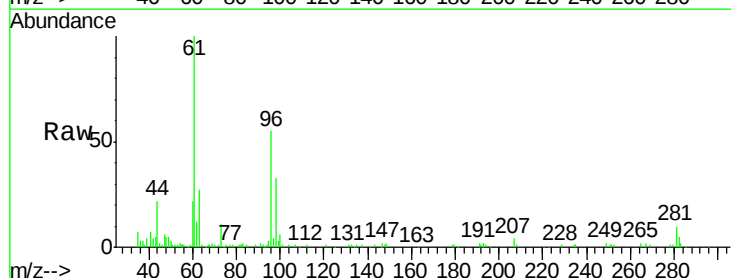
Manual Integrations  
APPROVED

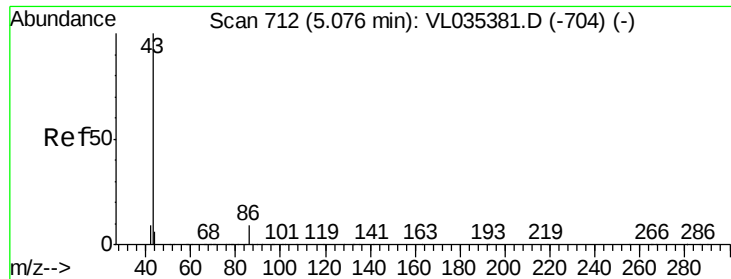
MMDadoda  
8/17/2020 5:43:42 PM



#22  
trans-1,2-Dichloroethene  
Concen: 0.487 ppbv  
RT: 4.89 min Scan# 653  
Delta R.T. 0.00 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 96    | Resp: | 33220 |
| Ion Ratio | Lower | Upper |       |
| 96        | 100   |       |       |
| 61        | 183.8 | 131.8 | 197.6 |
| 98        | 60.8  | 49.6  | 74.4  |





#23

Vinyl Acetate

Concen: 1.022 ppbv

RT: 5.08 min Scan# 712

Delta R.T. 0.00 min

Lab File: VL035380.D

Acq: 12 Aug 2020 11:08

Instrument :

MSVOA\_L

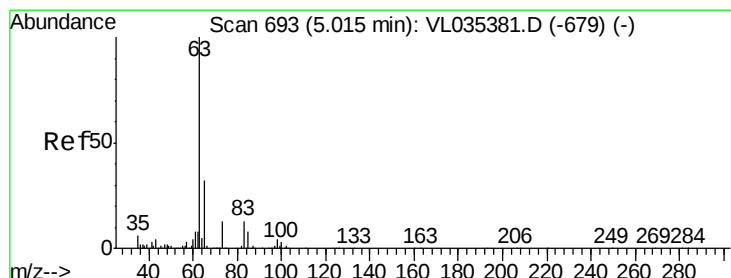
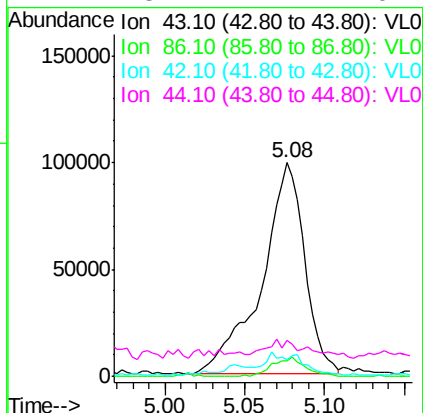
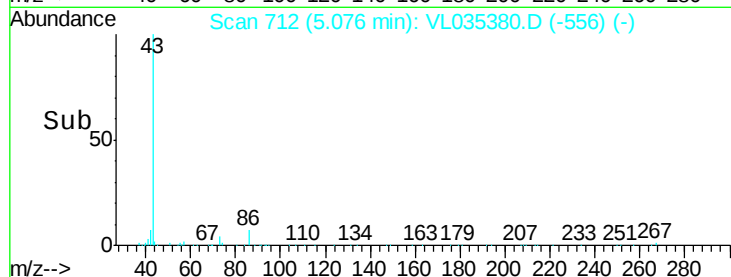
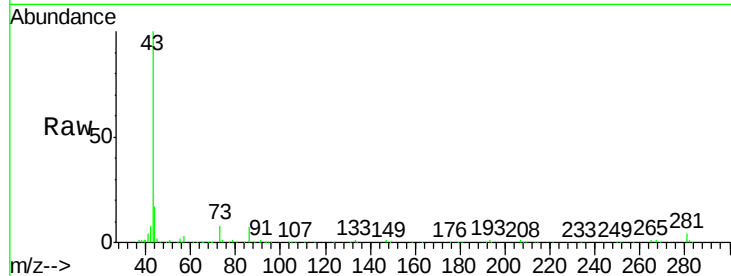
ClientSampleId :

VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 86      | 7.0   | 5.8   | 8.8   |
| 42      | 7.1   | 8.0   | 12.0# |
| 44      | 8.4   | 4.2   | 6.2#  |

Manual Integrations  
APPROVED

MMDadoda  
8/17/2020 5:43:42 PM



#24

1,1-Dichloroethane

Concen: 0.575 ppbv

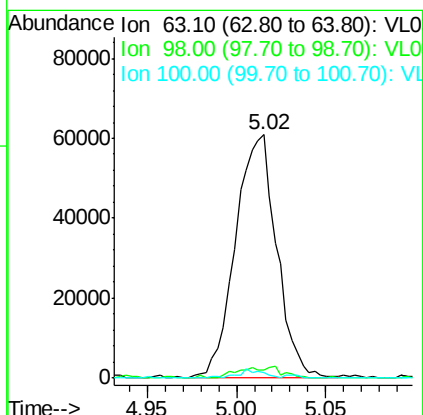
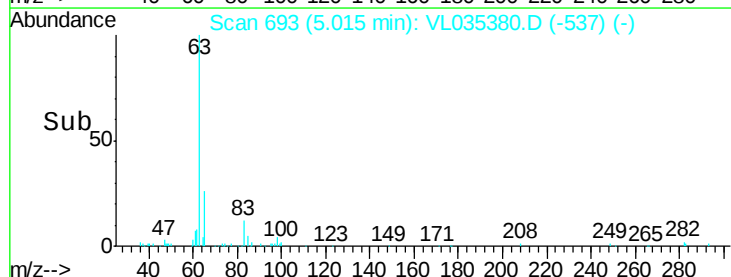
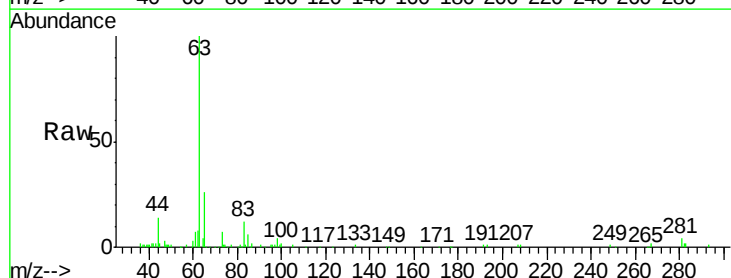
RT: 5.02 min Scan# 693

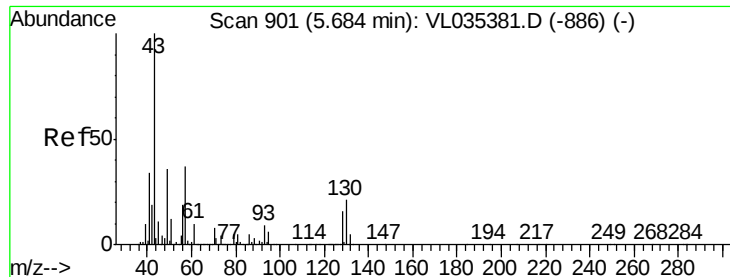
Delta R.T. 0.00 min

Lab File: VL035380.D

Acq: 12 Aug 2020 11:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 98      | 3.5   | 2.2   | 6.6   |
| 100     | 2.0   | 1.4   | 4.0   |





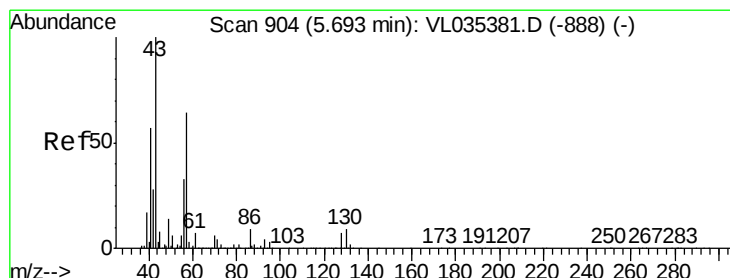
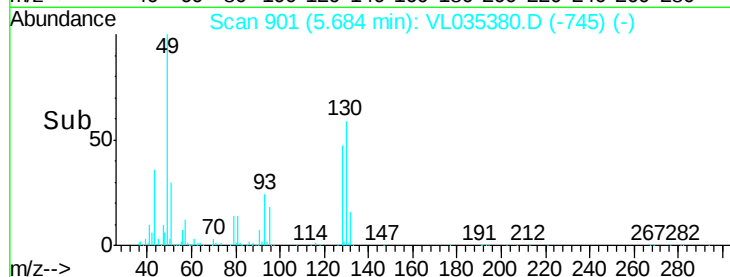
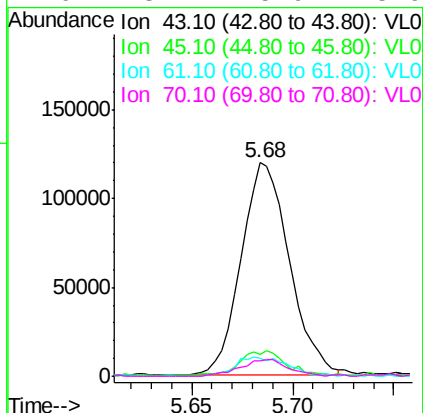
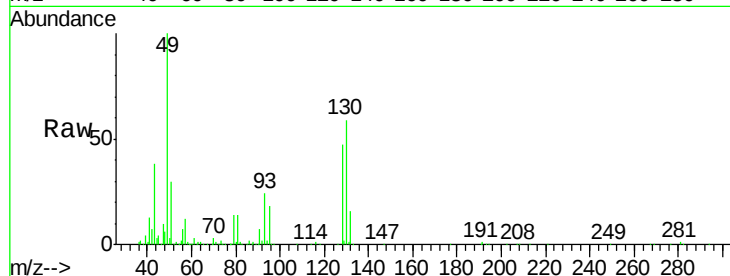
#25  
Ethyl Acetate  
Concen: 0.697 ppbv  
RT: 5.68 min Scan# 901  
Delta R.T. 0.00 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 45      | 11.8  | 8.0   | 12.0  |
| 61      | 9.9   | 7.4   | 11.2  |
| 70      | 8.2   | 5.9   | 8.9   |

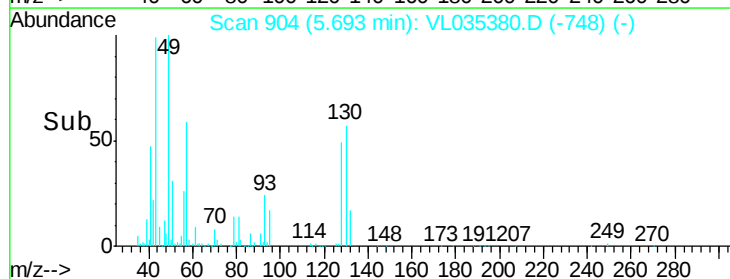
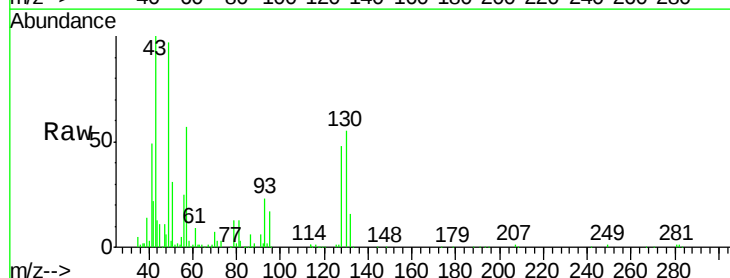
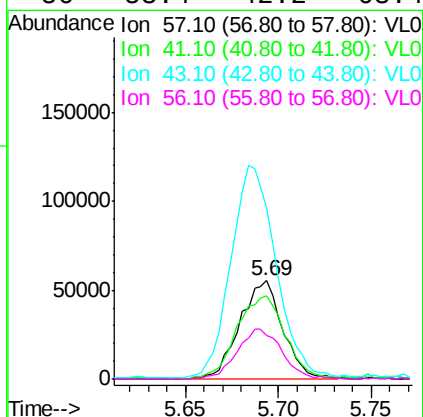
Manual Integrations  
APPROVED

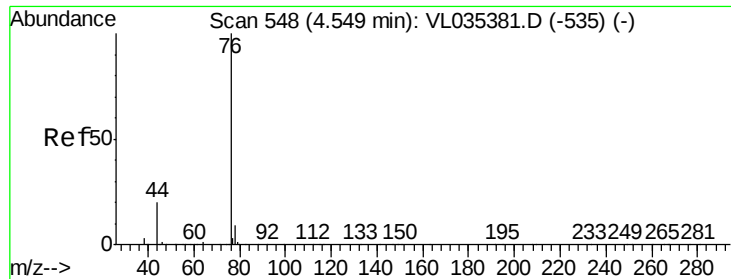
MMDadoda  
8/17/2020 5:43:42 PM



#26  
Hexane  
Concen: 0.716 ppbv  
RT: 5.69 min Scan# 904  
Delta R.T. 0.00 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 95.2  | 75.4  | 113.2 |
| 43      | 224.9 | 184.1 | 276.1 |
| 56      | 53.4  | 42.2  | 63.4  |





#27

Carbon Disulfide

Concen: 0.491 ppbv

RT: 4.55 min Scan# 547

Delta R.T. -0.00 min

Lab File: VL035380.D

Acq: 12 Aug 2020 11:08

Instrument :

MSVOA\_L

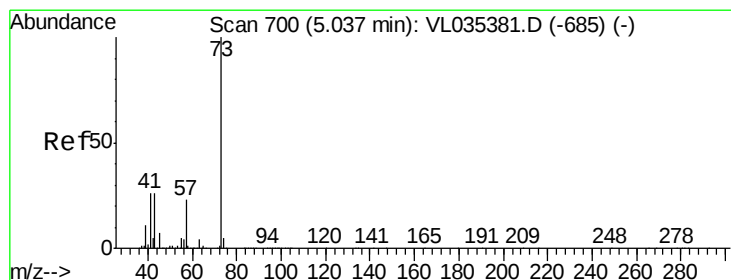
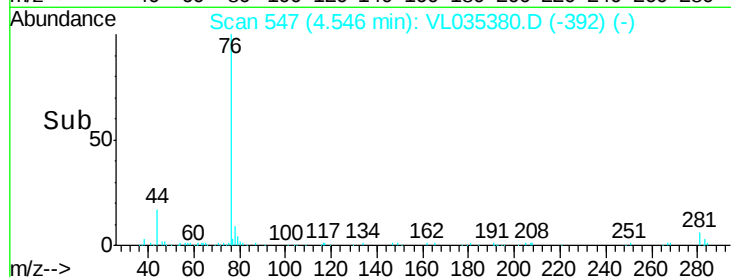
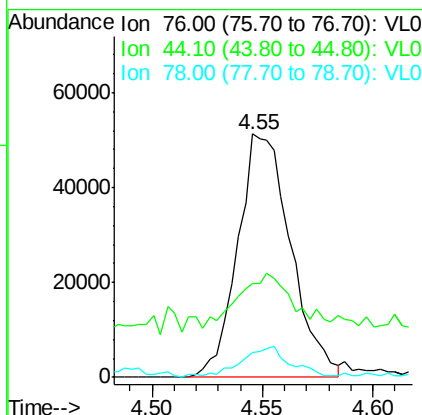
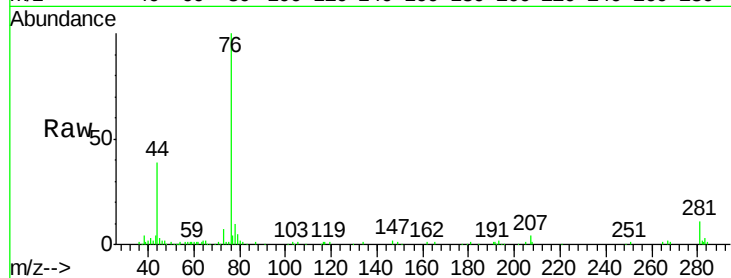
ClientSampleId :

VSTDIC0.5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 76    | Resp: | 85442 |
| Ion Ratio | Lower | Upper |       |
| 76        | 100   |       |       |
| 44        | 45.9  | 17.0  | 25.4# |
| 78        | 12.6  | 7.5   | 11.3# |

Manual Integrations  
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8/17/2020 5:43:42 PM



#28

Methyl tert-Butyl Ether

Concen: 0.780 ppbv

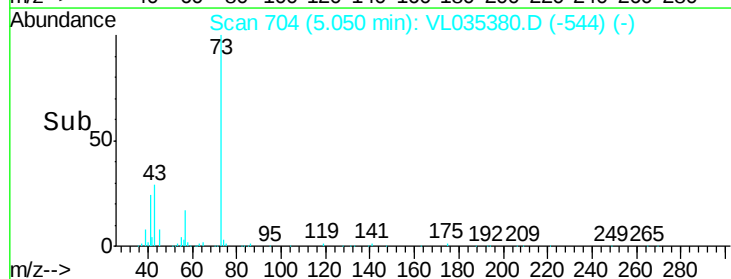
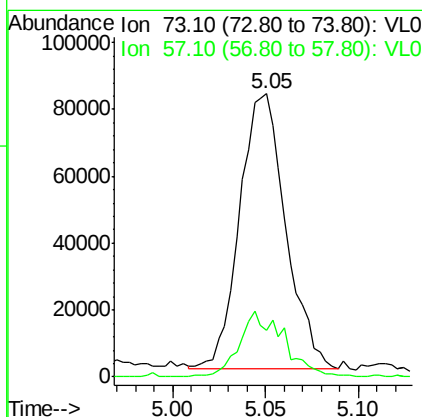
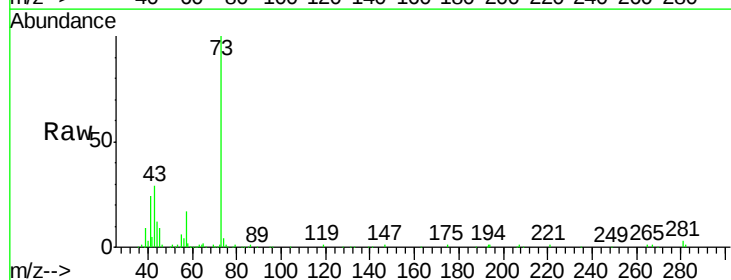
RT: 5.05 min Scan# 704

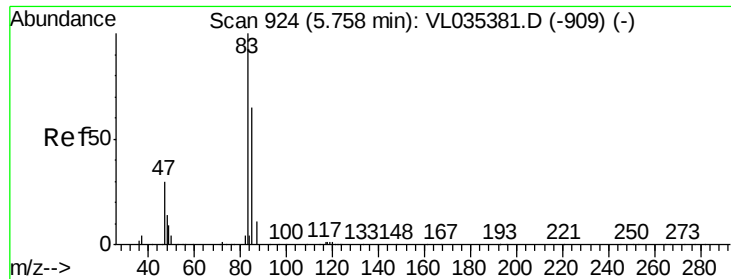
Delta R.T. 0.01 min

Lab File: VL035380.D

Acq: 12 Aug 2020 11:08

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 73    | Resp: | 141203 |
| Ion Ratio | Lower | Upper |        |
| 73        | 100   |       |        |
| 57        | 23.3  | 19.0  | 28.4   |





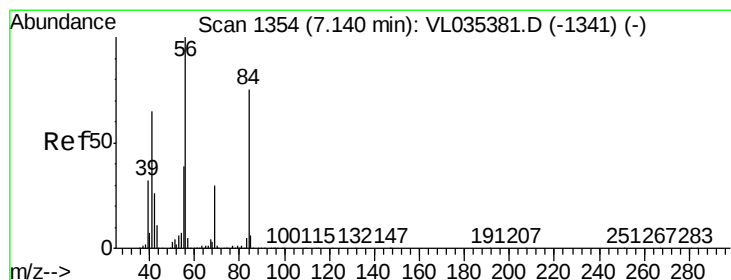
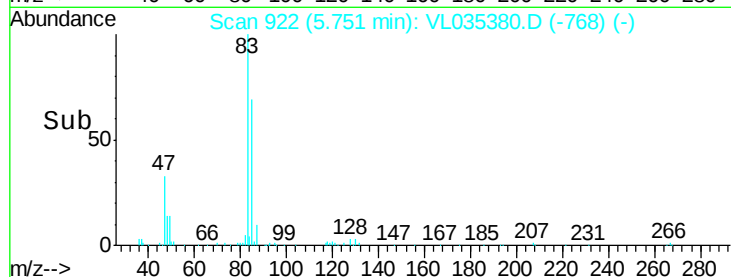
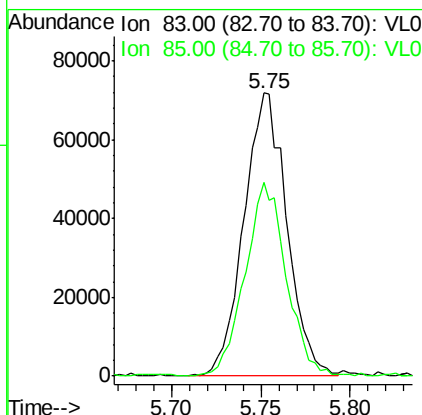
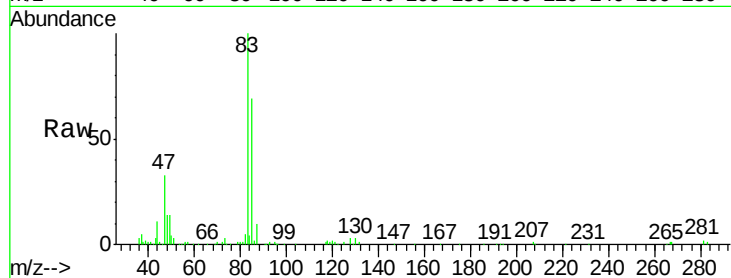
#29  
Chloroform  
Concen: 0.564 ppbv  
RT: 5.75 min Scan# 922  
Delta R.T. -0.01 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion   | 83    | Resp  | 121164 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 85        | 68.7  | 51.7  | 77.5   |

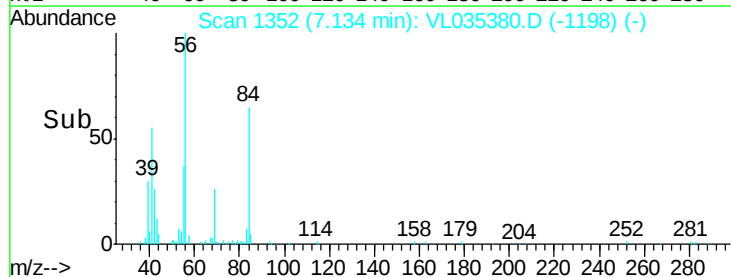
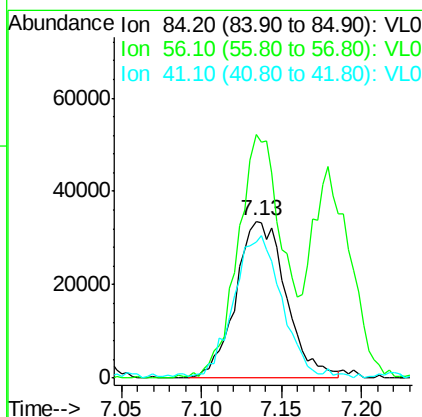
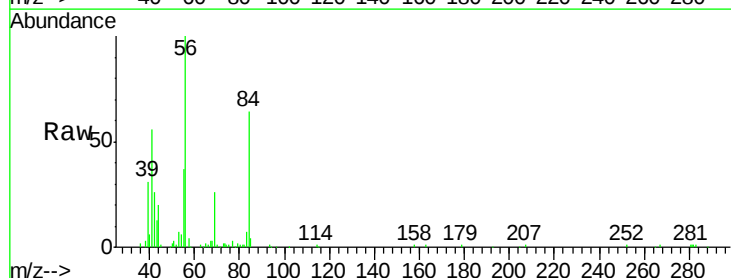
Manual Integrations  
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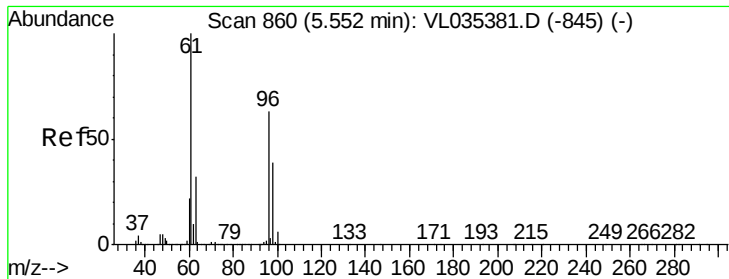
MMDadoda  
8/17/2020 5:43:42 PM



#30  
Cyclohexane  
Concen: 0.764 ppbv  
RT: 7.13 min Scan# 1352  
Delta R.T. -0.01 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

| Tgt Ion   | 84    | Resp  | 72105 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 84        | 100   |       |       |
| 56        | 141.7 | 115.8 | 173.6 |
| 41        | 89.1  | 71.4  | 107.0 |





#31

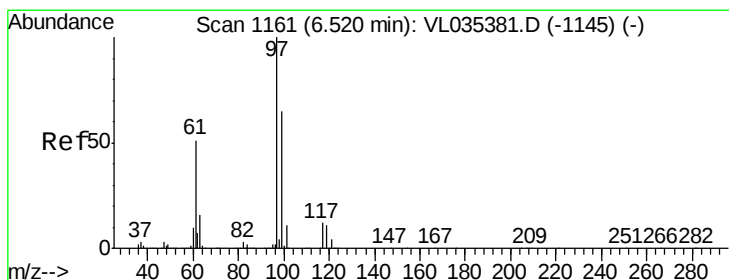
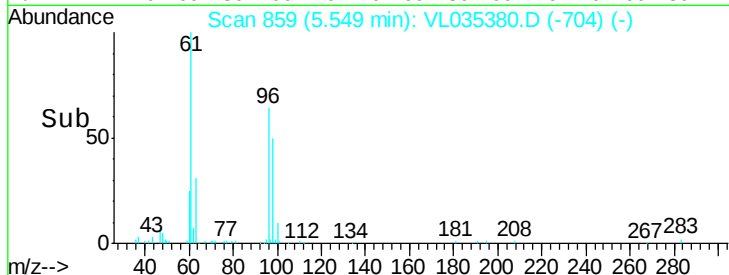
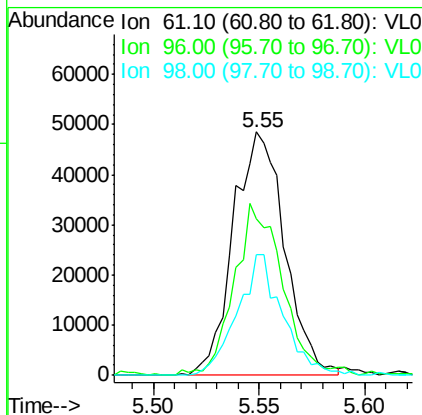
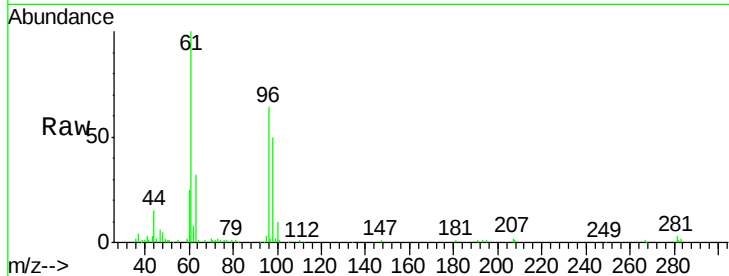
cis-1,2-Dichloroethene  
Concen: 0.738 ppbv  
RT: 5.55 min Scan# 859  
Delta R.T. -0.00 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 63.3  | 50.5  | 75.7  |
| 98      | 49.8  | 31.5  | 47.3  |

Manual Integrations  
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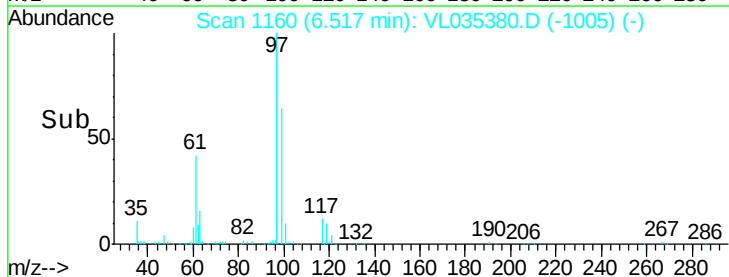
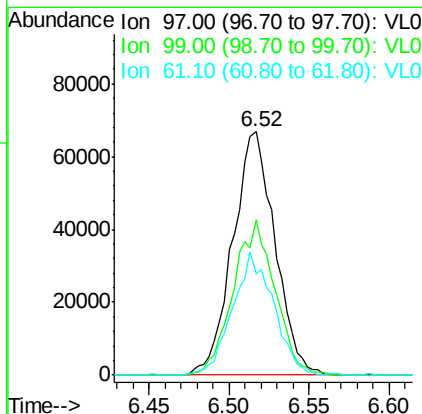
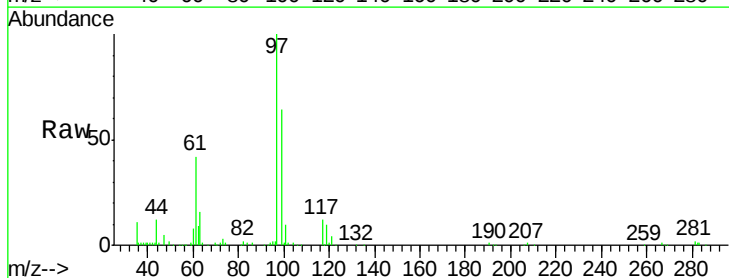
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8/17/2020 5:43:42 PM

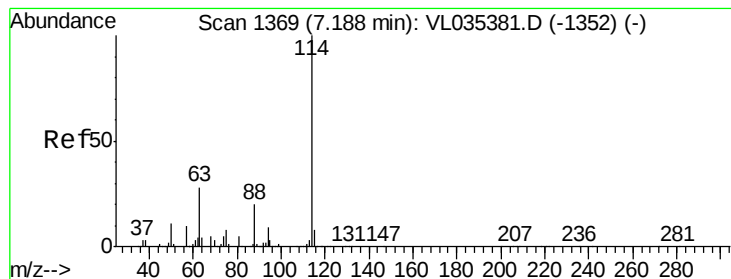


#32

1,1,1-Trichloroethane  
Concen: 0.534 ppbv  
RT: 6.52 min Scan# 1160  
Delta R.T. -0.00 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 62.8  | 51.8  | 77.8  |
| 61      | 49.2  | 39.6  | 59.4  |





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. -0.01 min

Lab File: VL035380.D

Acq: 12 Aug 2020 11:08

Instrument :

MSVOA\_L

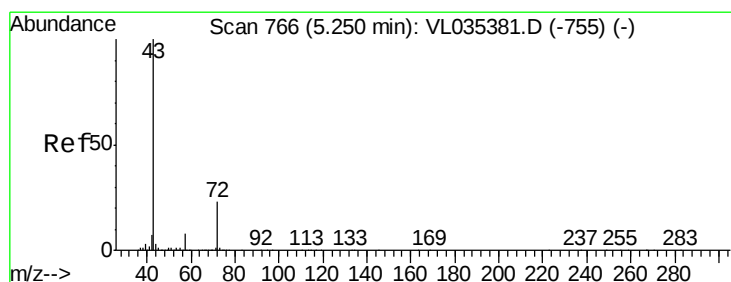
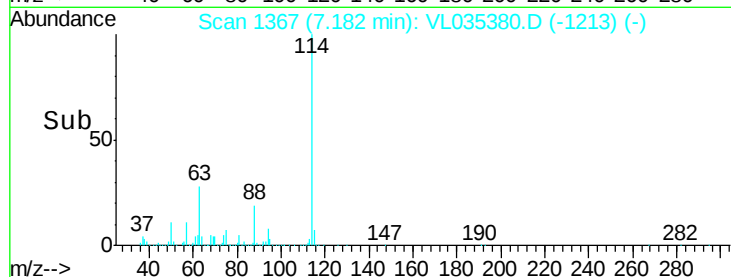
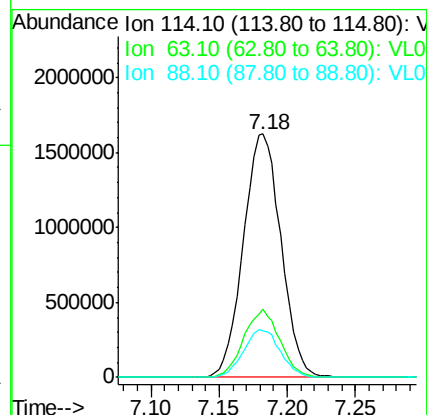
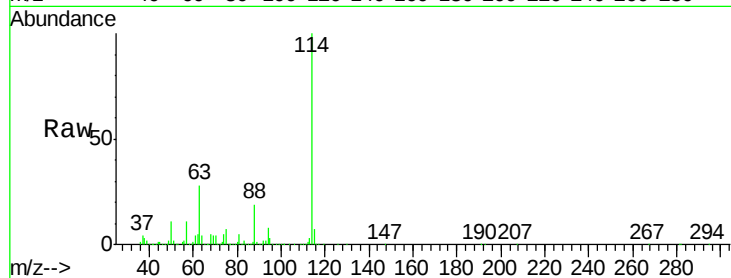
ClientSampleId :

VSTDIC0.5

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 114   | Resp: | 3112236 |
| Ion      | Ratio | Lower | Upper   |
| 114      | 100   |       |         |
| 63       | 26.9  | 21.5  | 32.3    |
| 88       | 19.2  | 15.6  | 23.4    |

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8/17/2020 5:43:42 PM



#34

2-Butanone

Concen: 0.837 ppbv

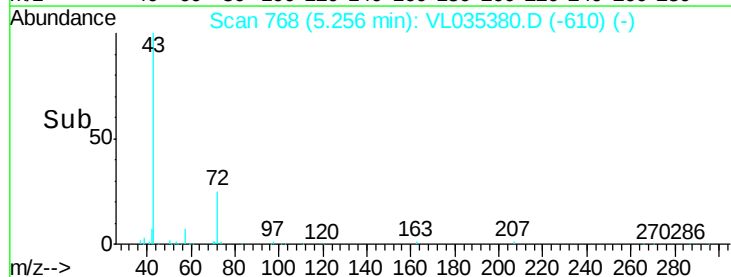
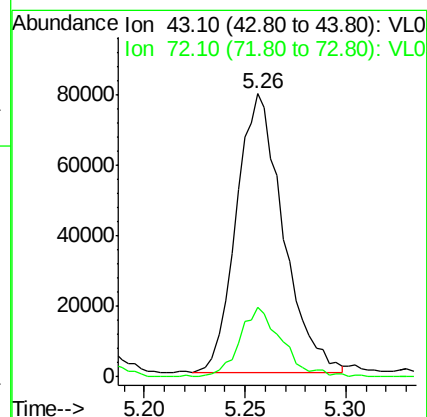
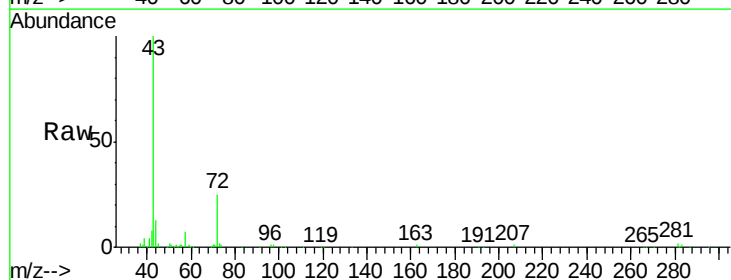
RT: 5.26 min Scan# 768

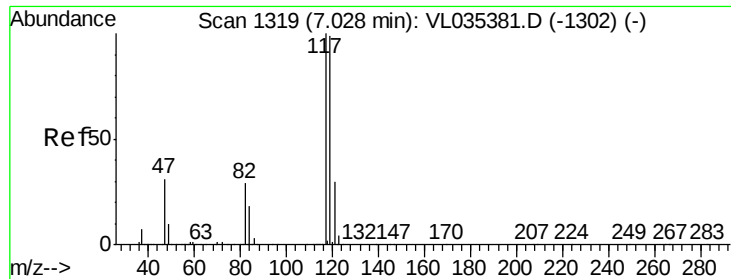
Delta R.T. 0.01 min

Lab File: VL035380.D

Acq: 12 Aug 2020 11:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 128323 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 72       | 23.0  | 17.7  | 26.5   |





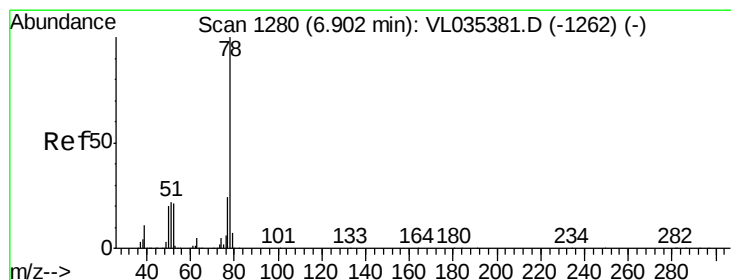
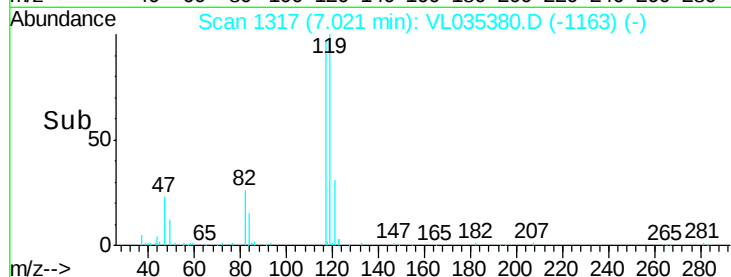
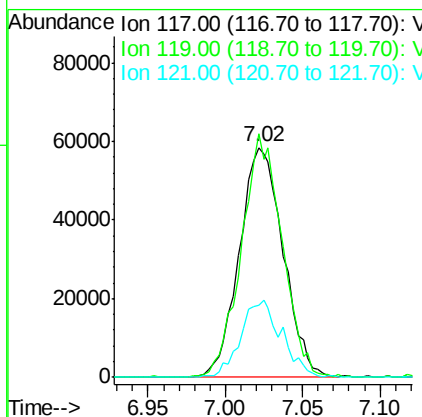
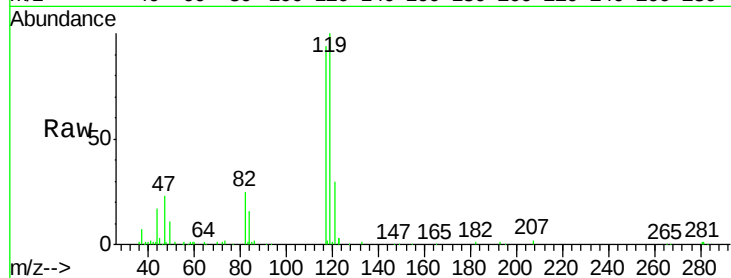
#35  
Carbon Tetrachloride  
Concen: 0.538 ppbv  
RT: 7.02 min Scan# 1317  
Delta R.T. -0.01 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 106.0 | 79.4  | 119.0 |
| 121     | 31.5  | 24.3  | 36.5  |

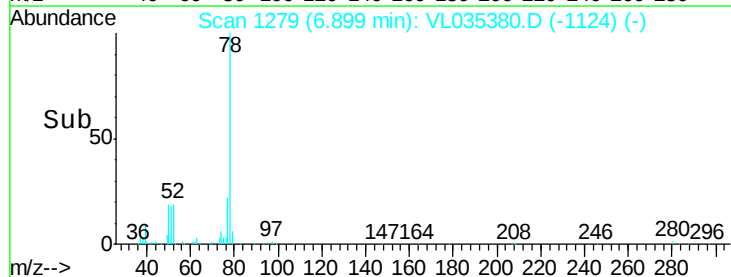
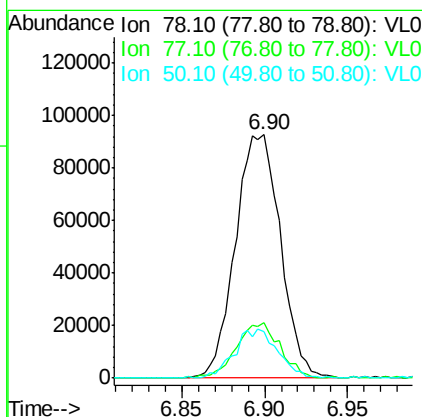
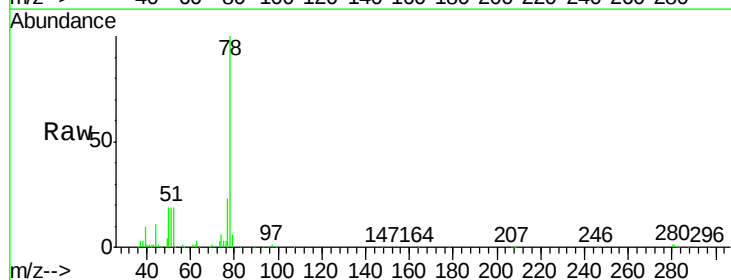
Manual Integrations  
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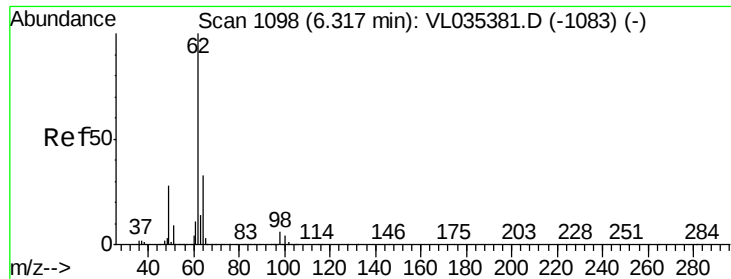
MMDadoda  
8/17/2020 5:43:42 PM



#36  
Benzene  
Concen: 0.830 ppbv  
RT: 6.90 min Scan# 1279  
Delta R.T. -0.00 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 22.9  | 19.1  | 28.7  |
| 50      | 18.5  | 15.8  | 23.6  |





#37

1,2-Dichloroethane

Concen: 0.635 ppbv

RT: 6.31 min Scan# 1095

Delta R.T. -0.01 min

Lab File: VL035380.D

Acq: 12 Aug 2020 11:08

Instrument :

MSVOA\_L

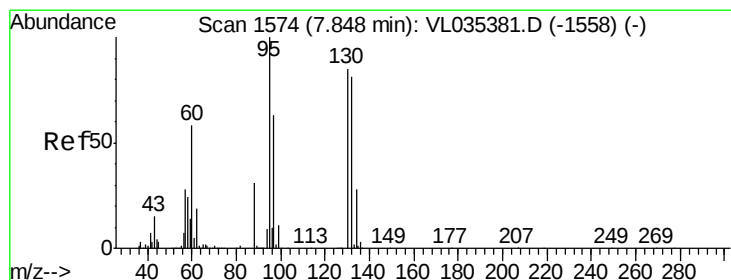
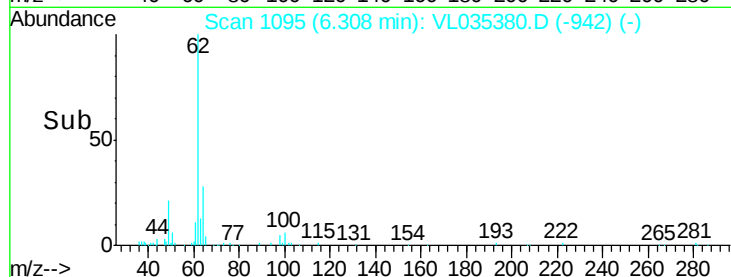
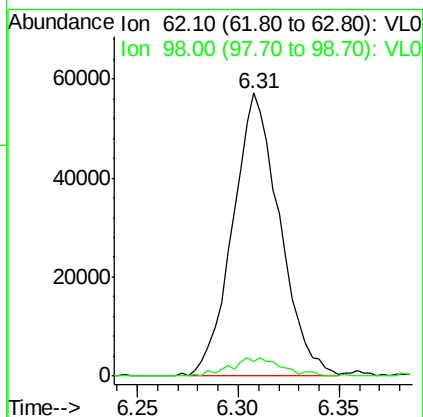
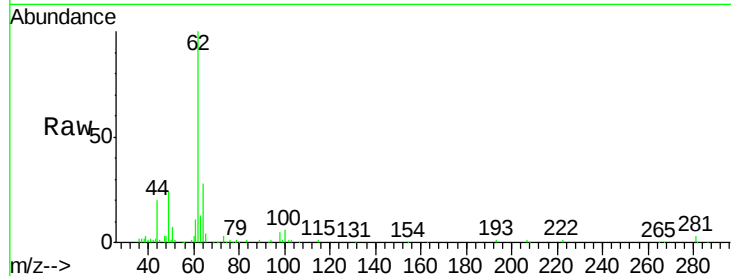
ClientSampleId :

VSTDIC0.5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 62    | Resp: | 93161 |
| Ion Ratio | Lower | Upper |       |
| 62        | 100   |       |       |
| 98        | 7.1   | 5.1   | 7.7   |

Manual Integrations  
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8/17/2020 5:43:42 PM



#38

Trichloroethene

Concen: 0.649 ppbv m

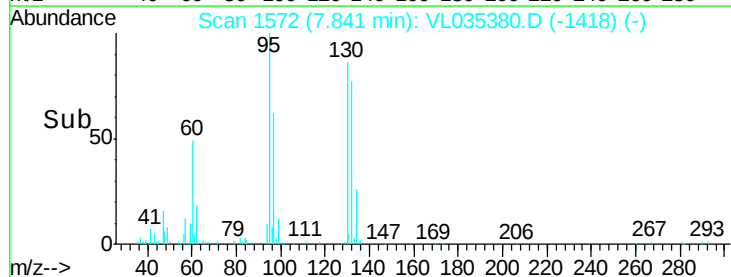
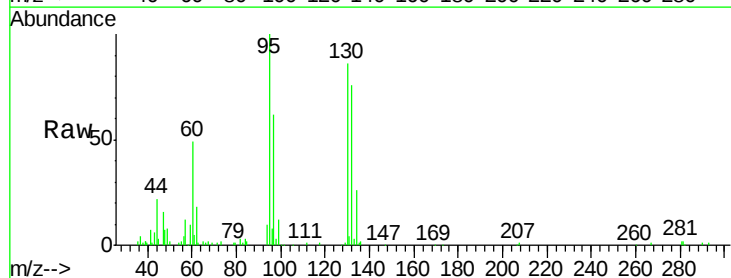
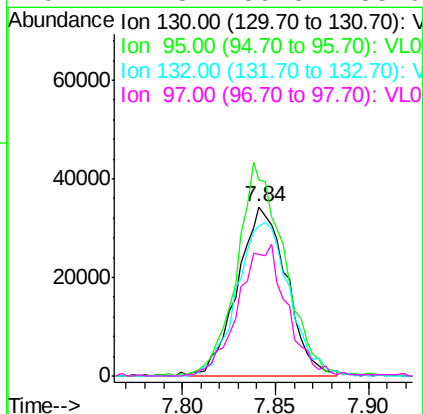
RT: 7.84 min Scan# 1572

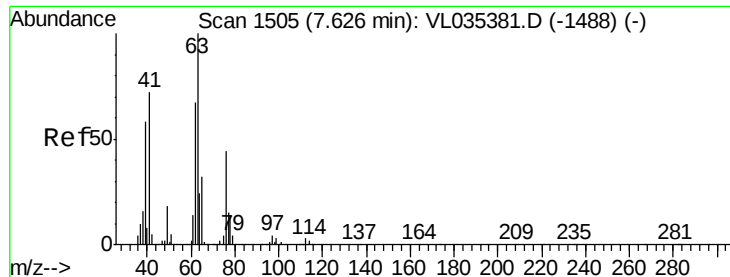
Delta R.T. -0.01 min

Lab File: VL035380.D

Acq: 12 Aug 2020 11:08

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 130   | Resp: | 62922 |
| Ion Ratio | Lower | Upper |       |
| 130       | 100   |       |       |
| 95        | 116.3 | 94.2  | 141.4 |
| 132       | 88.8  | 76.6  | 114.8 |
| 97        | 72.3  | 59.3  | 88.9  |





#39

1,2-Dichloropropane

Concen: 0.811 ppbv

RT: 7.62 min Scan# 1503

Delta R.T. -0.01 min

Lab File: VL035380.D

Acq: 12 Aug 2020 11:08

Instrument :

MSVOA\_L

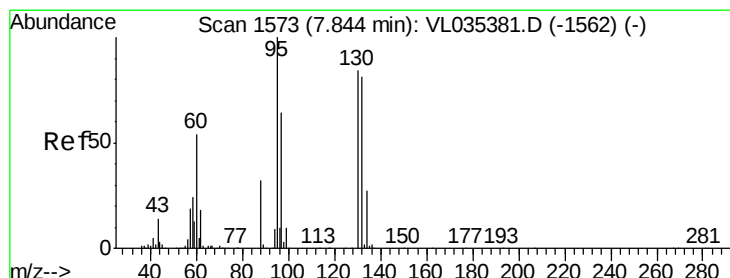
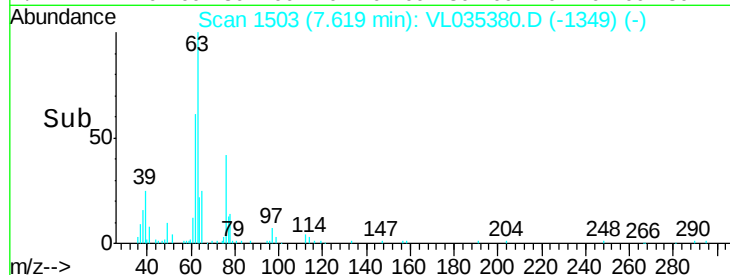
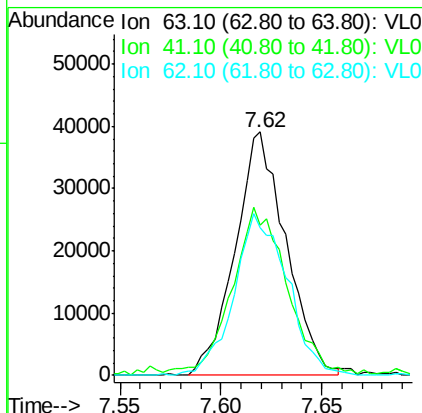
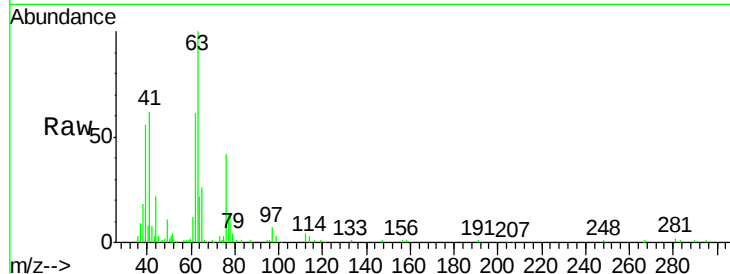
ClientSampleId :

VSTDIC0.5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 63    | Resp: | 69017 |
| Ion Ratio | Lower | Upper |       |
| 63        | 100   |       |       |
| 41        | 58.5  | 57.4  | 86.2  |
| 62        | 58.8  | 53.6  | 80.4  |

Manual Integrations  
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8/17/2020 5:43:42 PM



#40

1,4-Dioxane

Concen: 0.887 ppbv m

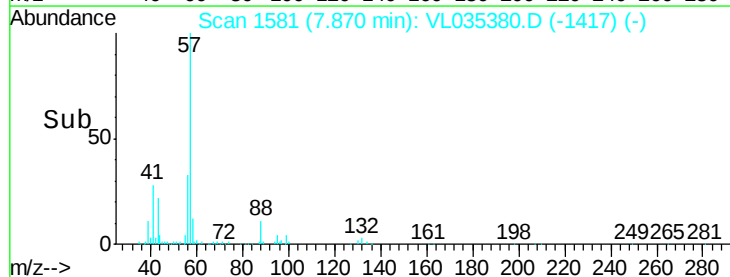
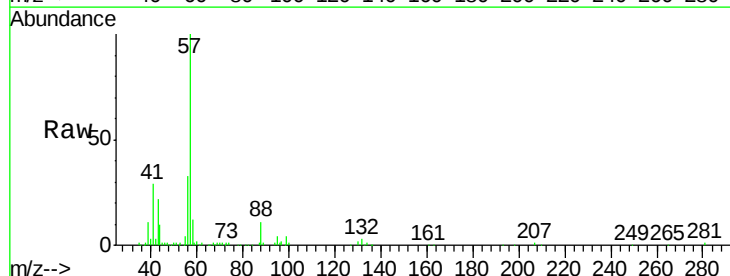
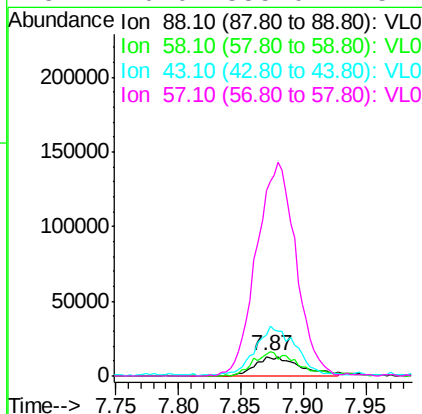
RT: 7.87 min Scan# 1581

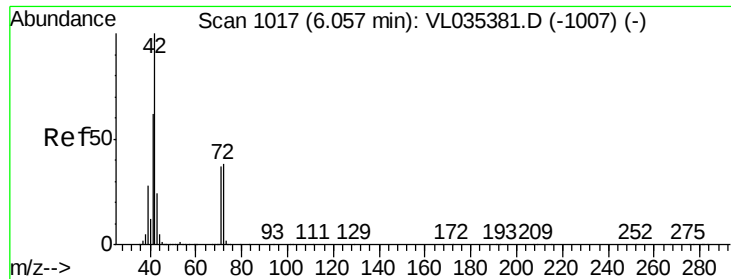
Delta R.T. 0.03 min

Lab File: VL035380.D

Acq: 12 Aug 2020 11:08

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 88    | Resp: | 32308   |
| Ion Ratio | Lower | Upper |         |
| 88        | 100   |       |         |
| 58        | 129.7 | 105.0 | 157.6   |
| 43        | 230.3 | 204.2 | 306.2   |
| 57        | 0.0   | 855.0 | 1282.4# |





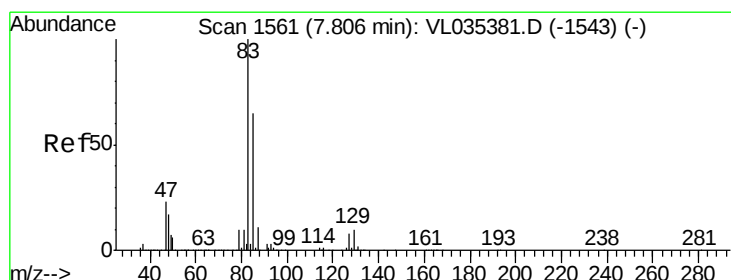
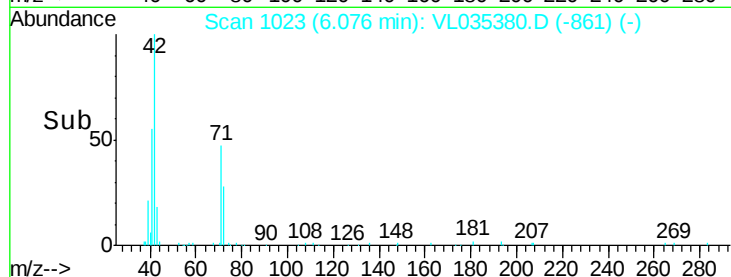
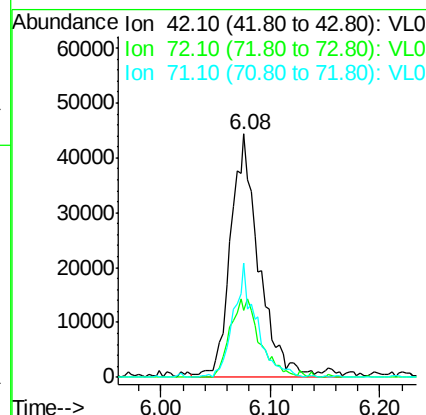
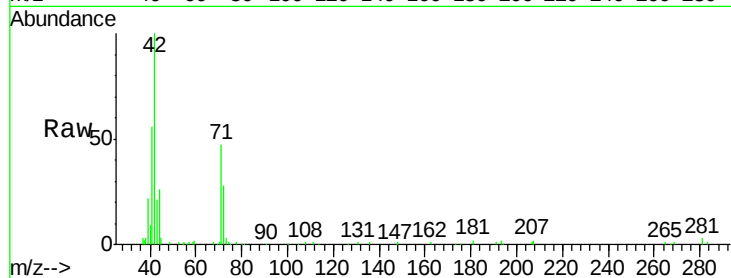
#41  
Tetrahydrofuran  
Concen: 1.075 ppbv m  
RT: 6.08 min Scan# 1023  
Delta R.T. 0.02 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 42      | 100   |            |       |
| 72      | 0.0   | 30.2       | 45.2# |
| 71      | 0.0   | 28.6       | 42.8# |

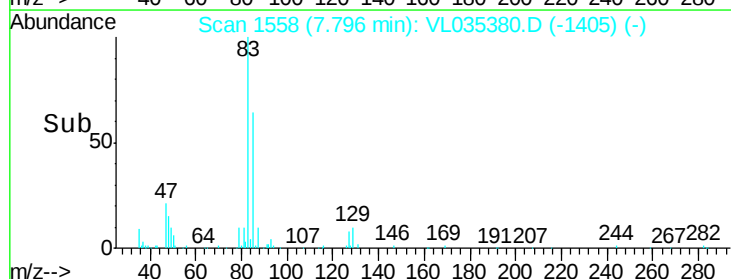
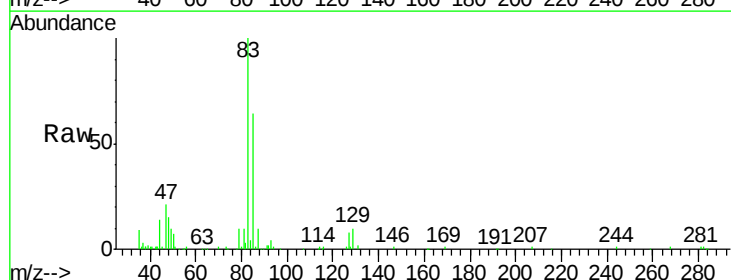
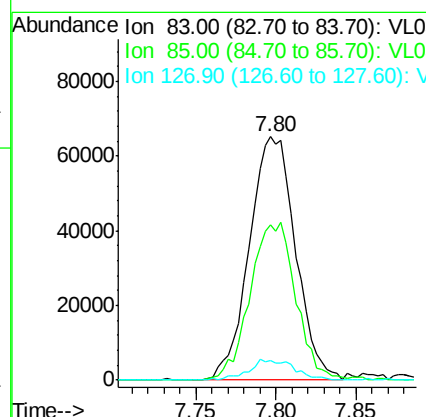
Manual Integrations  
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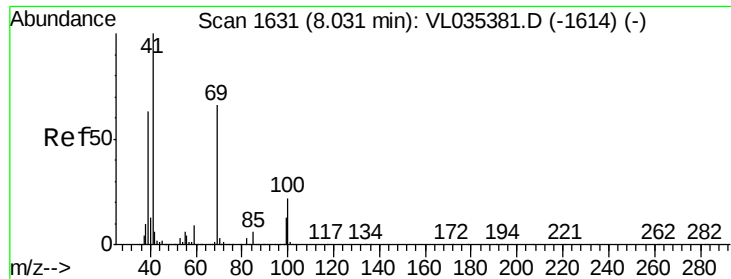
MMDadoda  
8/17/2020 5:43:42 PM



#42  
Bromodichloromethane  
Concen: 0.657 ppbv  
RT: 7.80 min Scan# 1558  
Delta R.T. -0.01 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 83      | 100   |            |       |
| 85      | 63.9  | 52.2       | 78.4  |
| 127     | 7.8   | 6.3        | 9.5   |





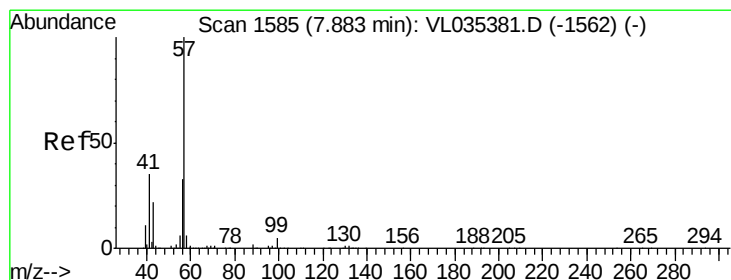
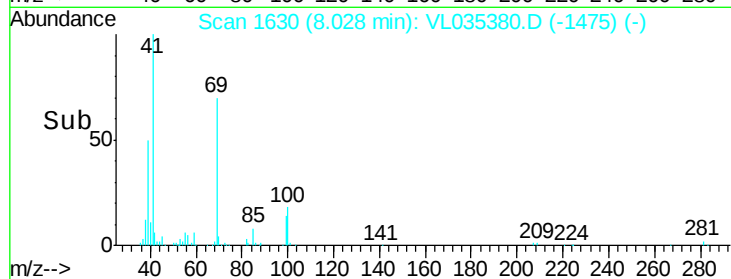
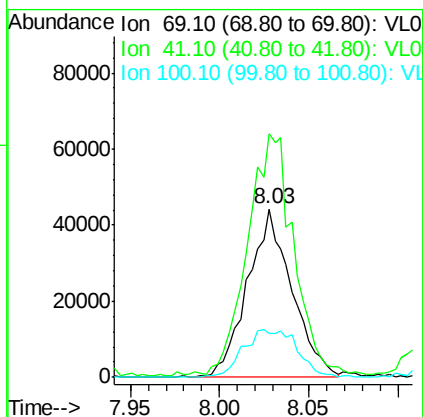
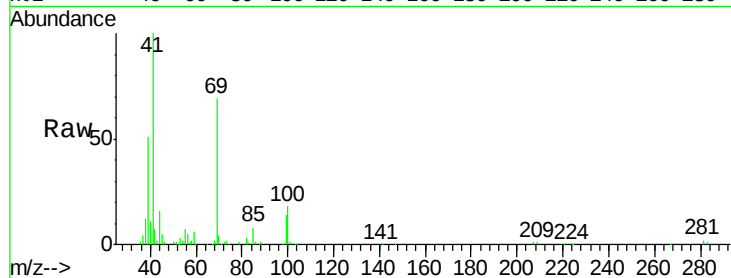
#43  
Methvl Methacrilate  
Concen: 0.865 ppbv  
RT: 8.03 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 150.8 | 123.4 | 185.2 |
| 100     | 34.8  | 26.7  | 40.1  |

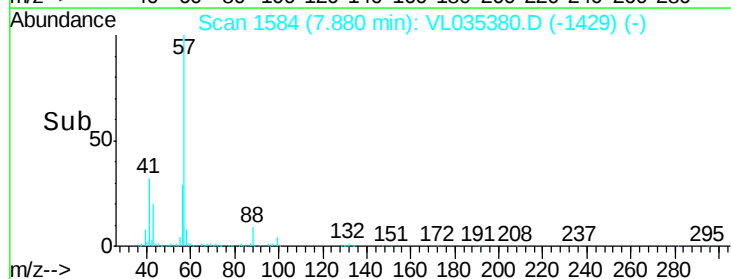
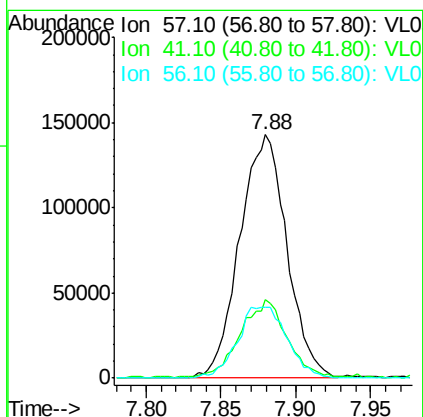
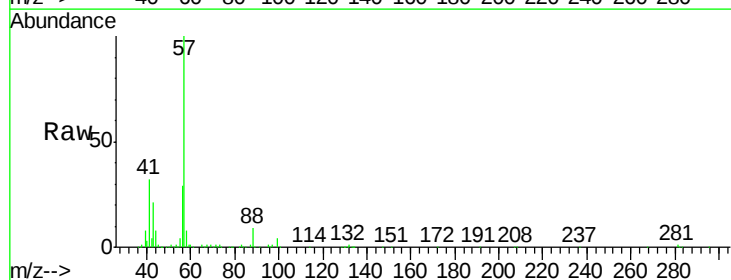
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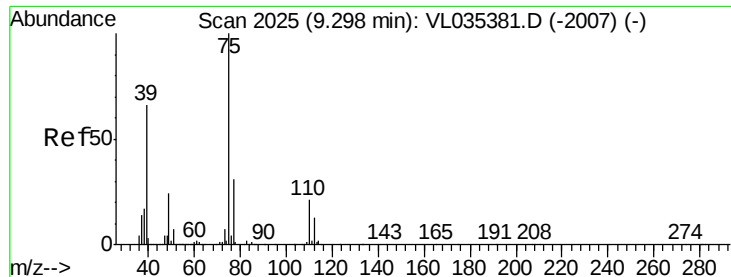
MMDadoda  
8/17/2020 5:43:42 PM



#44  
2,2,4-Trimethylpentane  
Concen: 0.835 ppbv  
RT: 7.88 min Scan# 1584  
Delta R.T. -0.00 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 32.3  | 26.9  | 40.3  |
| 56      | 31.0  | 25.6  | 38.4  |





#45

t-1,3-Dichloropropene

Concen: 0.937 ppbv

RT: 9.29 min Scan# 2022

Delta R.T. -0.01 min

Lab File: VL035380.D

Acq: 12 Aug 2020 11:08

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 75 Resp: 85919

Ion Ratio Lower Upper

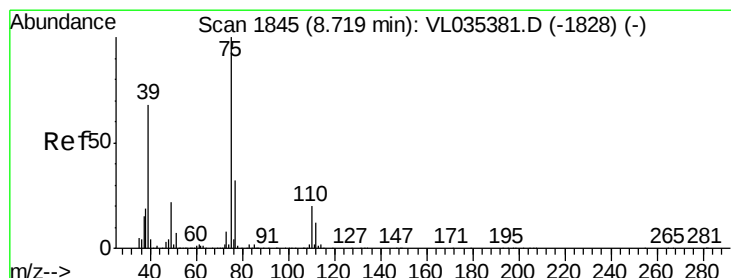
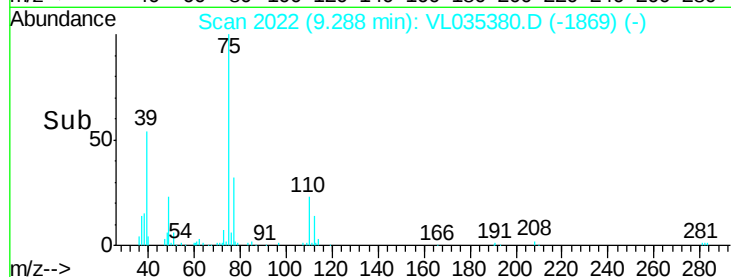
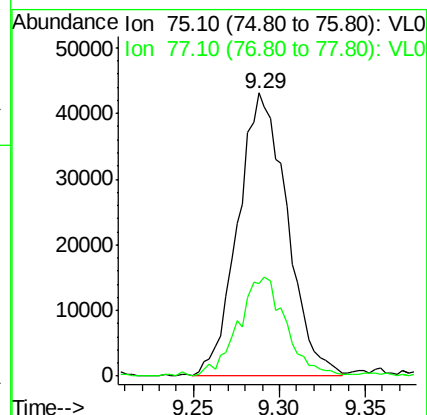
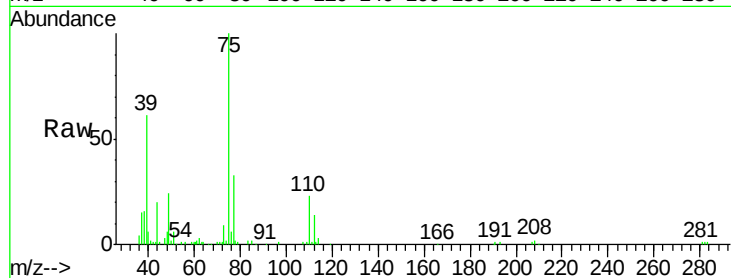
75 100

77 32.6 25.2 37.8

Manual Integrations  
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8/17/2020 5:43:42 PM



#46

cis-1,3-Dichloropropene

Concen: 0.933 ppbv

RT: 8.71 min Scan# 1843

Delta R.T. -0.01 min

Lab File: VL035380.D

Acq: 12 Aug 2020 11:08

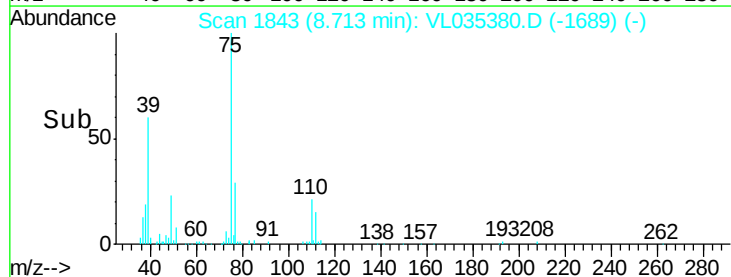
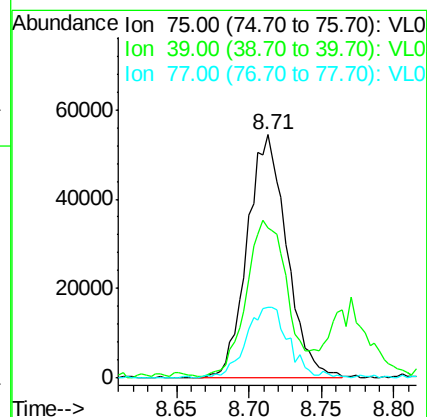
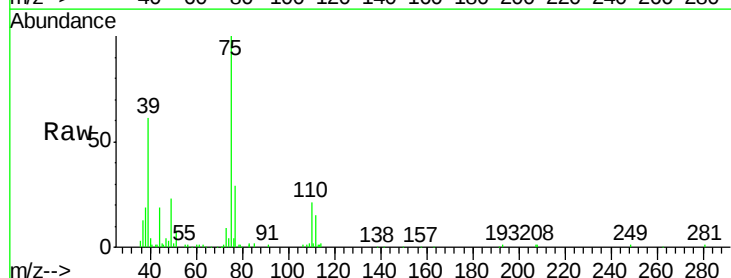
Tgt Ion: 75 Resp: 103390

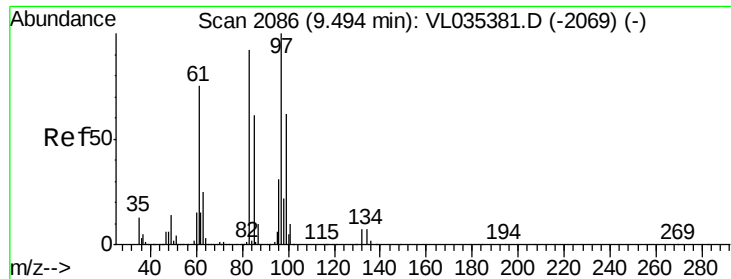
Ion Ratio Lower Upper

75 100

39 60.2 54.2 81.2

77 29.0 25.7 38.5





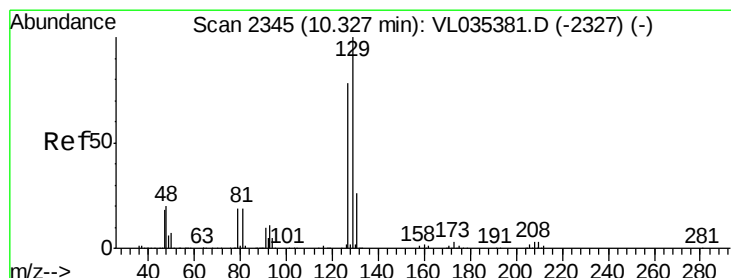
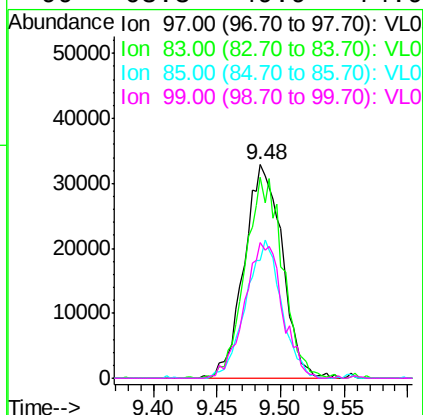
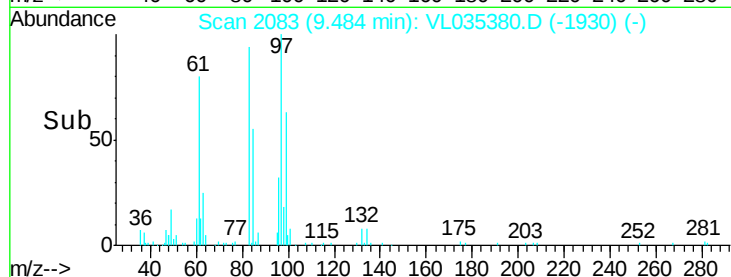
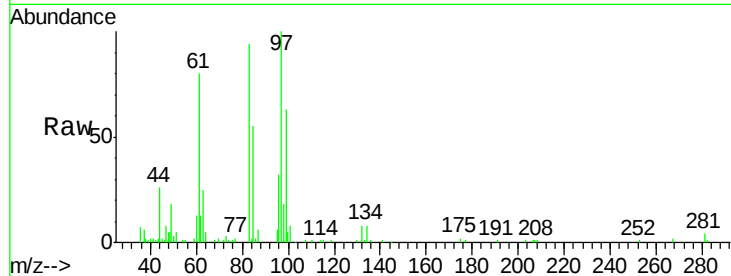
#47  
 1,1,2-Trichloroethane  
 Concen: 0.664 ppbv m  
 RT: 9.48 min Scan# 2083  
 Delta R.T. -0.01 min  
 Lab File: VL035380.D  
 Acq: 12 Aug 2020 11:08

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

| Tot Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 97      | 100  |       | 67914 |       |       |
| 83      | 94.1 | 73.9  | 110.9 |       |       |
| 85      | 55.1 | 49.0  | 73.6  |       |       |
| 99      | 63.3 | 49.9  | 74.9  |       |       |

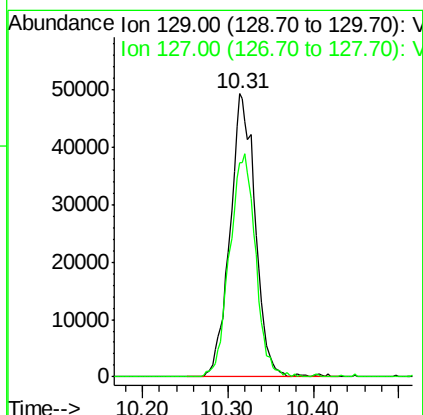
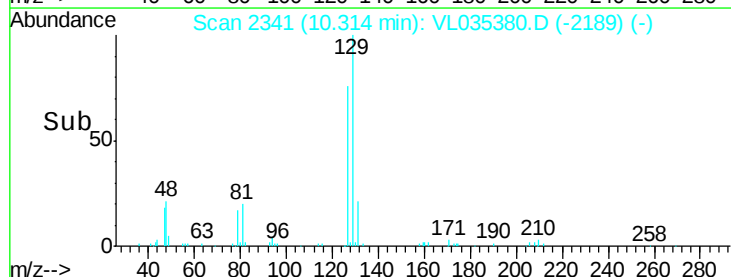
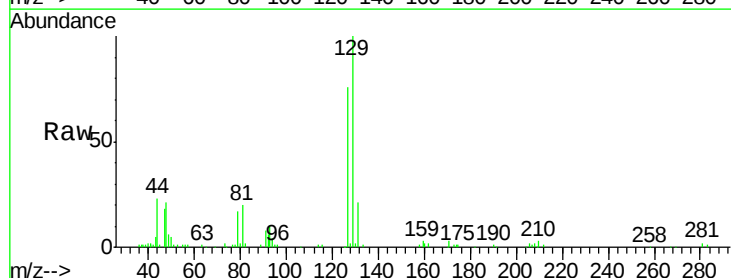
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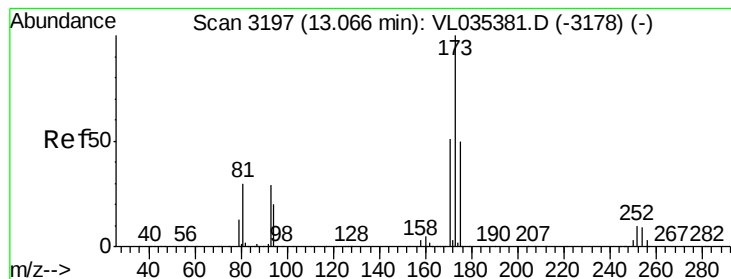
MMDadoda  
 8/17/2020 5:43:42 PM



#48  
 Dibromochloromethane  
 Concen: 0.604 ppbv m  
 RT: 10.31 min Scan# 2341  
 Delta R.T. -0.01 min  
 Lab File: VL035380.D  
 Acq: 12 Aug 2020 11:08

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 129     | 100  |       | 101185 |       |       |
| 127     | 80.8 | 39.3  | 117.8  |       |       |





#49

Bromoform

Concen: 0.543 ppbv

RT: 13.06 min Scan# 3194

Delta R.T. -0.01 min

Lab File: VL035380.D

Acq: 12 Aug 2020 11:08

Instrument :

MSVOA\_L

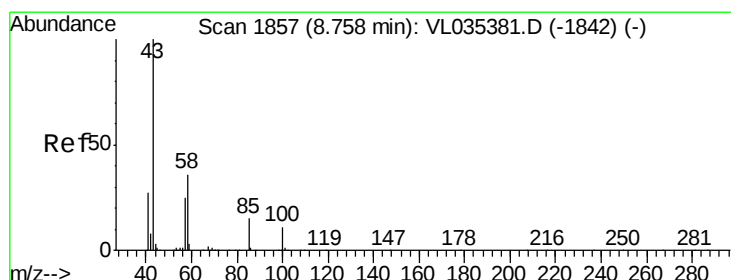
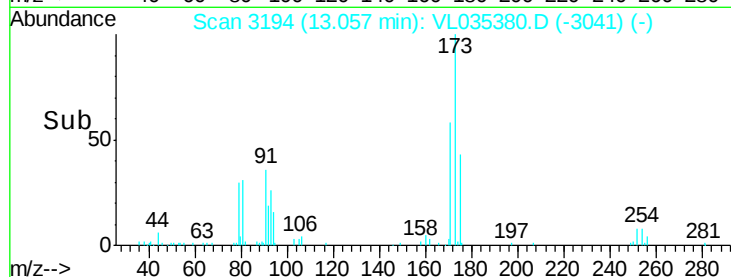
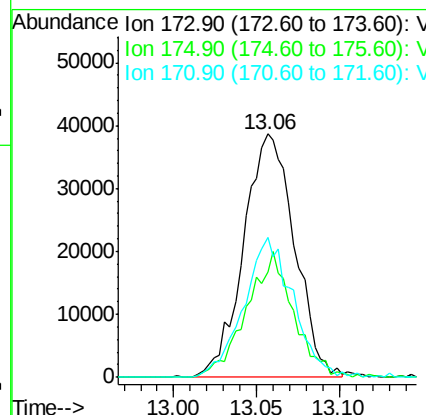
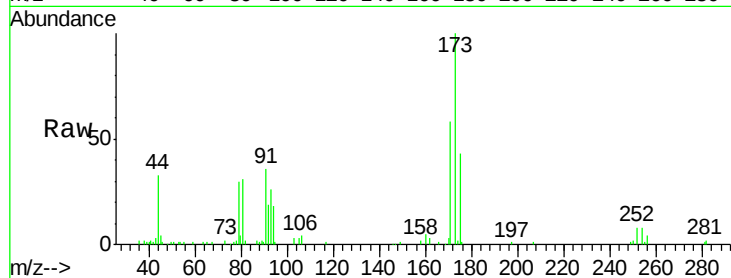
ClientSampleId :

VSTDIC0.5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 173   | Resp: | 82905 |
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 47.9  | 39.9  | 59.9  |
| 171       | 56.0  | 41.8  | 62.8  |

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8/17/2020 5:43:42 PM



#50

4-Methyl-2-Pentanone

Concen: 0.874 ppbv

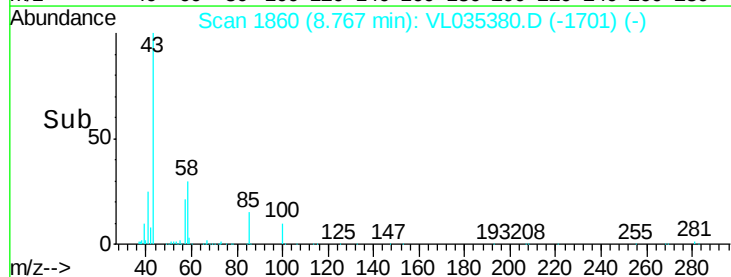
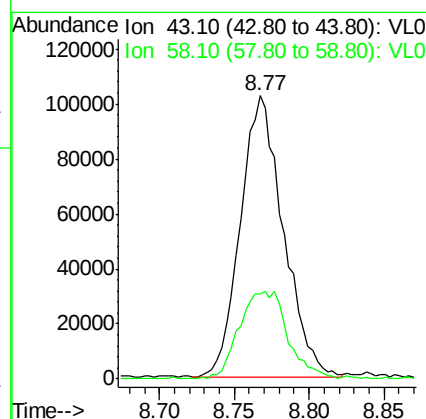
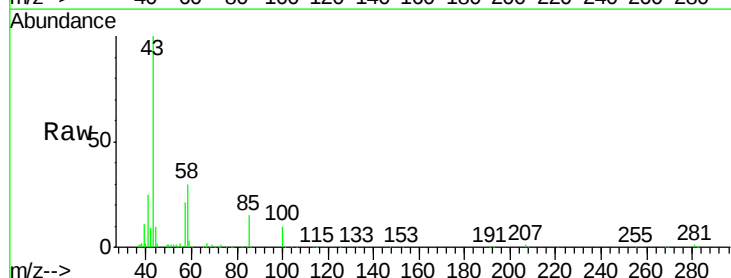
RT: 8.77 min Scan# 1860

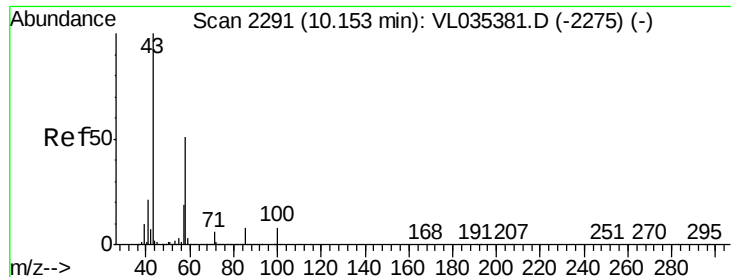
Delta R.T. 0.01 min

Lab File: VL035380.D

Acq: 12 Aug 2020 11:08

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 43    | Resp: | 204571 |
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 58        | 35.5  | 29.0  | 43.6   |





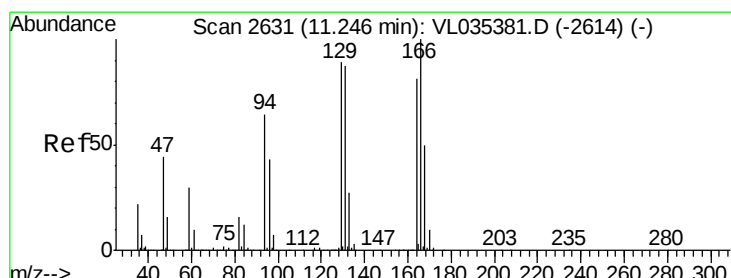
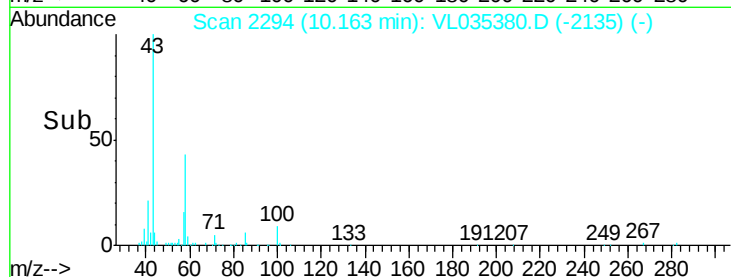
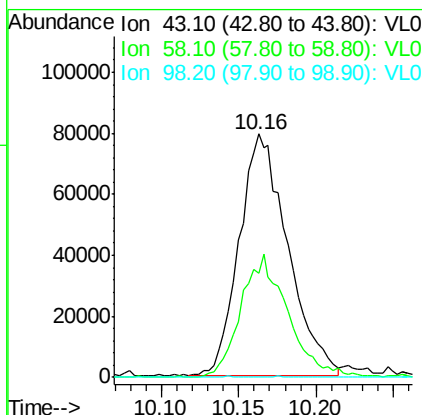
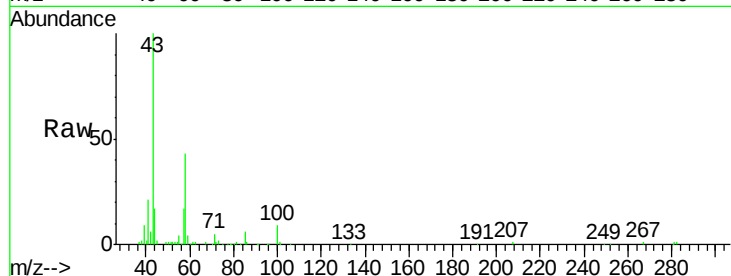
#51  
2-Hexanone  
Concen: 0.946 ppbv  
RT: 10.16 min Scan# 2294  
Delta R.T. 0.01 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 49.1  | 39.5  | 59.3  |
| 98      | 0.1   | 0.1   | 0.1#  |

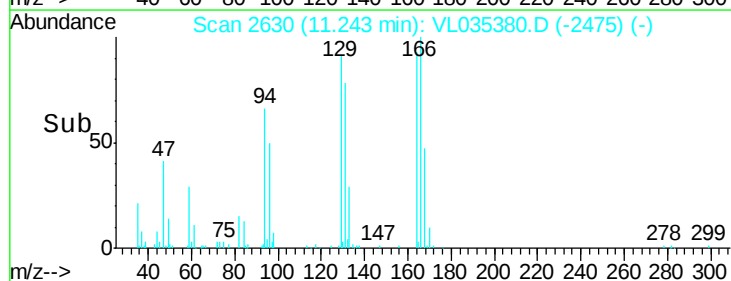
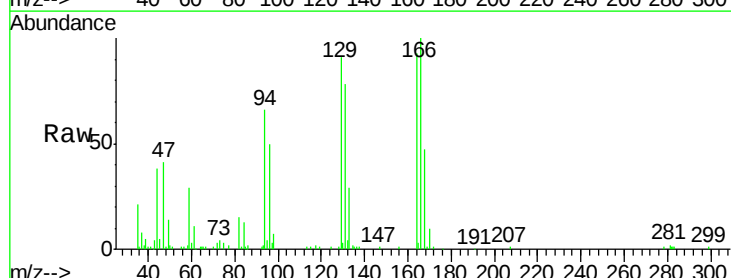
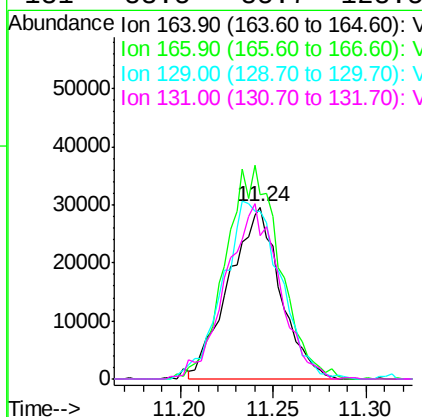
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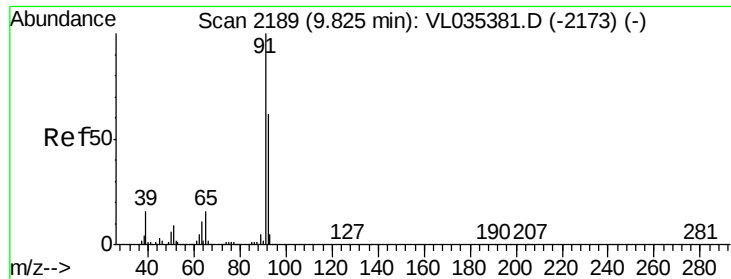
MMDadoda  
8/17/2020 5:43:42 PM



#52  
Tetrachloroethene  
Concen: 0.686 ppbv  
RT: 11.24 min Scan# 2630  
Delta R.T. -0.00 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 164     | 100   |       |        |
| 166     | 105.3 | 98.2  | 147.2  |
| 129     | 95.7  | 87.3  | 130.9  |
| 131     | 83.5  | 85.7  | 128.5# |





#53

Toluene

Concen: 0.920 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. -0.01 min

Lab File: VL035380.D

Acq: 12 Aug 2020 11:08

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 210285

Ion Ratio Lower Upper

91 100

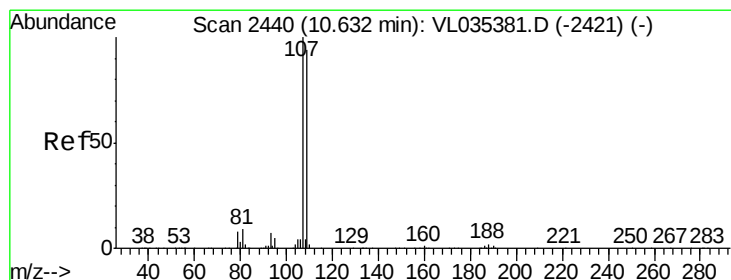
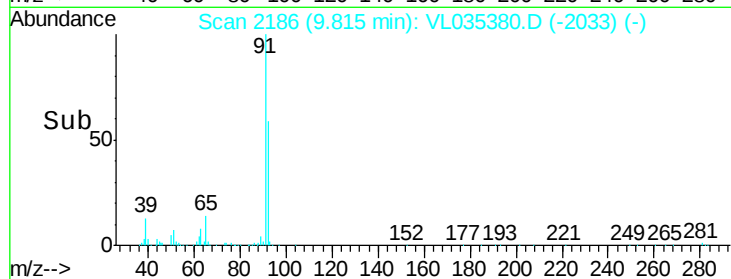
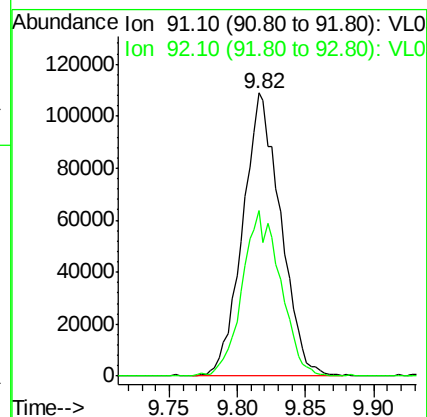
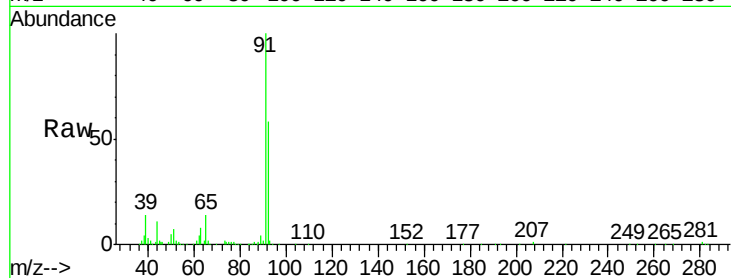
92 58.9 49.1 73.7

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 0.751 ppbv m

RT: 10.63 min Scan# 2438

Delta R.T. -0.01 min

Lab File: VL035380.D

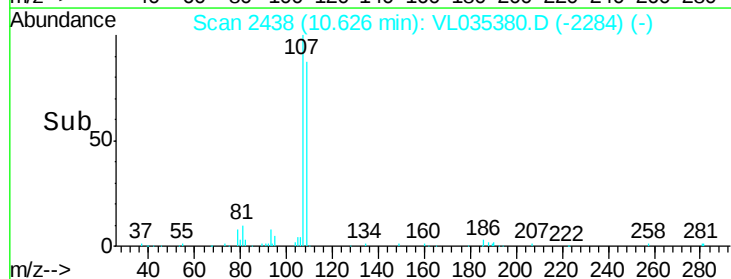
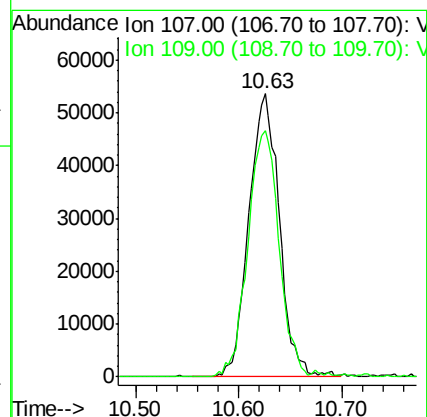
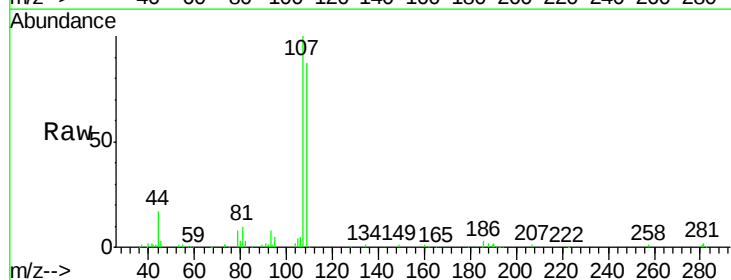
Acq: 12 Aug 2020 11:08

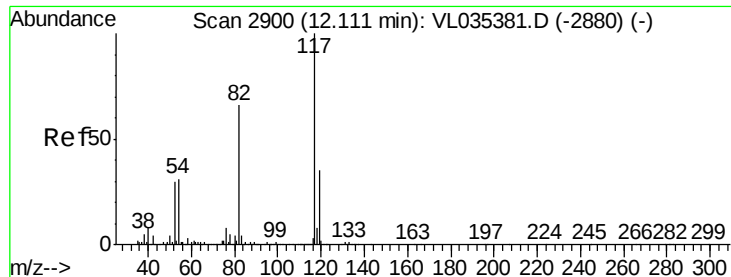
Tgt Ion:107 Resp: 110278

Ion Ratio Lower Upper

107 100

109 87.1 75.2 112.8





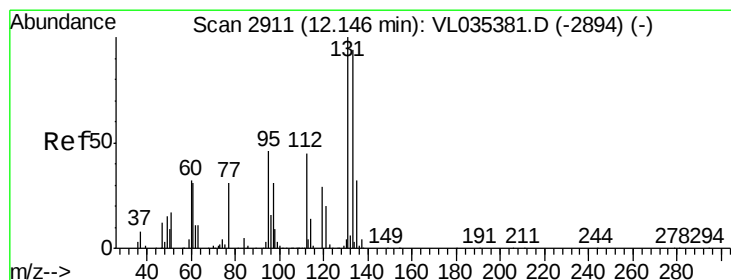
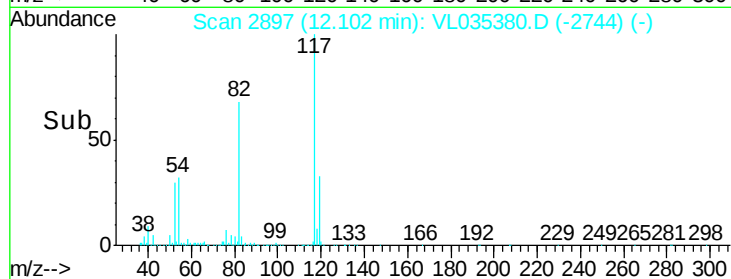
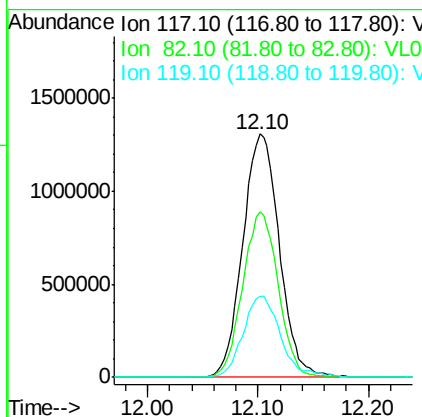
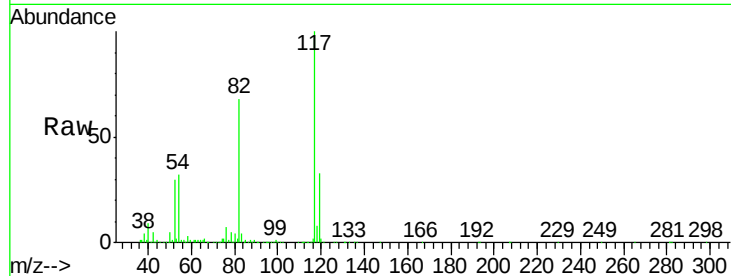
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.10 min Scan# 2897  
Delta R.T. -0.01 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 66.4  | 53.0  | 79.6  |
| 119     | 34.5  | 25.7  | 38.5  |

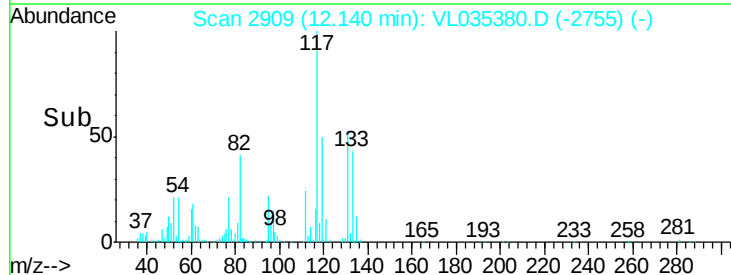
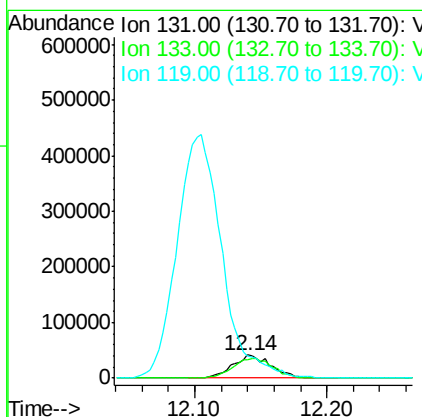
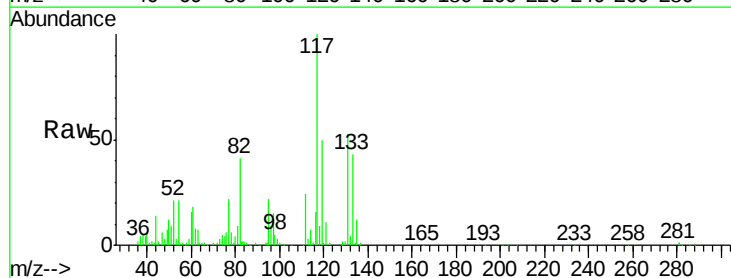
Manual Integrations  
APPROVED

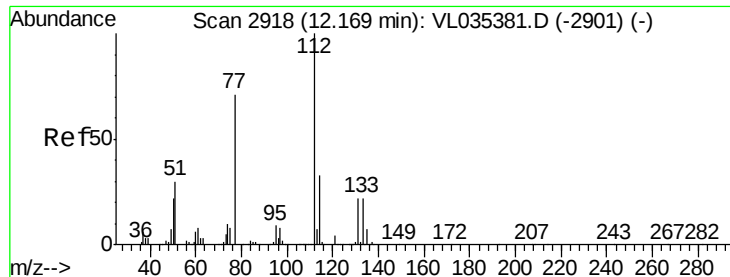
MMDadoda  
8/17/2020 5:43:42 PM



#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.595 ppbv m  
RT: 12.14 min Scan# 2909  
Delta R.T. -0.01 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

| Tgt Ion | Ratio  | Lower | Upper |
|---------|--------|-------|-------|
| 131     | 100    |       |       |
| 133     | 92.1   | 76.1  | 114.1 |
| 119     | 1229.1 | 47.0  | 70.4# |





#57

Chlorobenzene

Concen: 0.704 ppbv

RT: 12.16 min Scan# 2915

Delta R.T. -0.01 min

Lab File: VL035380.D

Acq: 12 Aug 2020 11:08

Instrument :

MSVOA\_L

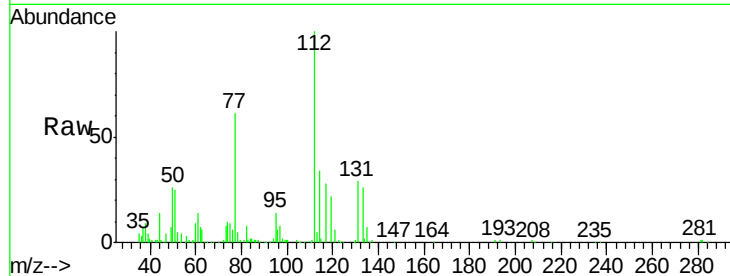
ClientSampleId :

VSTDIC0.5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 112   | Resp: | 159028 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 77        | 61.1  | 57.6  | 86.4   |
| 114       | 33.5  | 30.0  | 36.6   |

Manual Integrations  
APPROVED

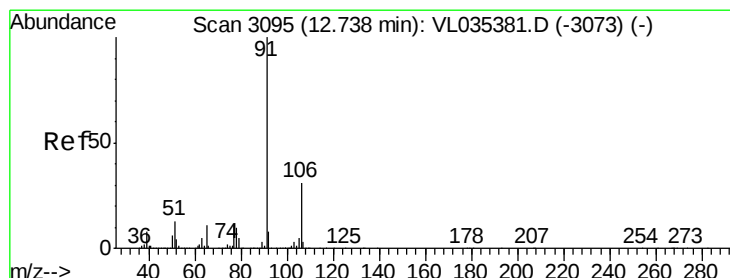
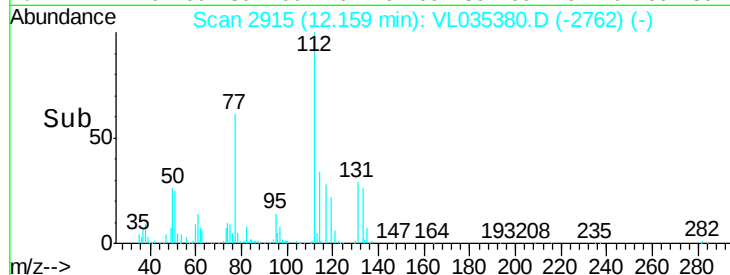
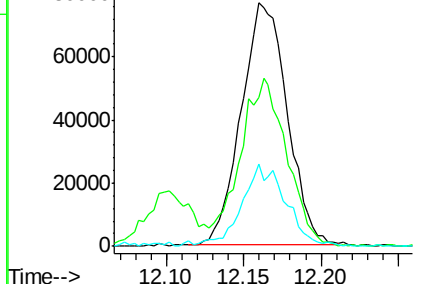
MMDadoda  
8/17/2020 5:43:42 PM



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: 0.915 ppbv

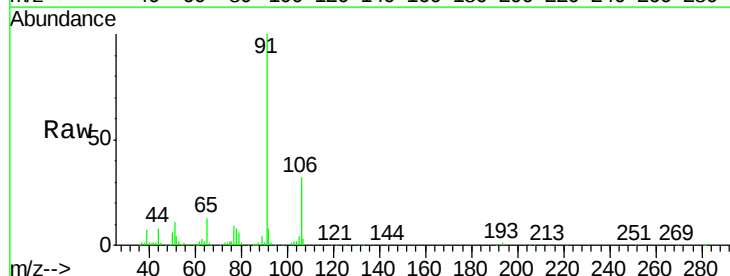
RT: 12.73 min Scan# 3091

Delta R.T. -0.01 min

Lab File: VL035380.D

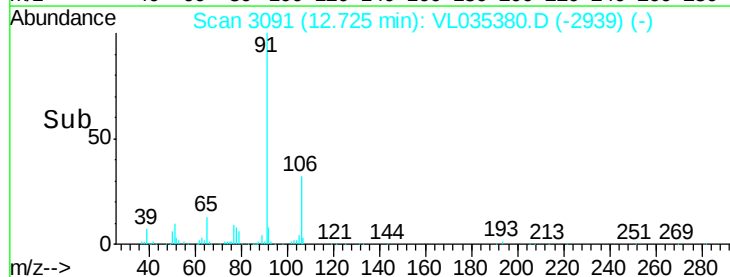
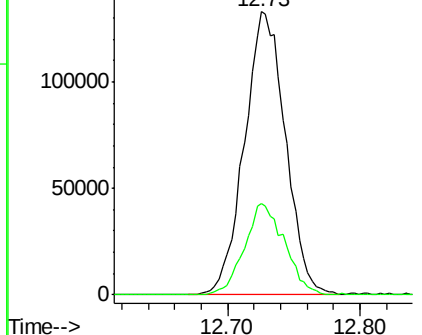
Acq: 12 Aug 2020 11:08

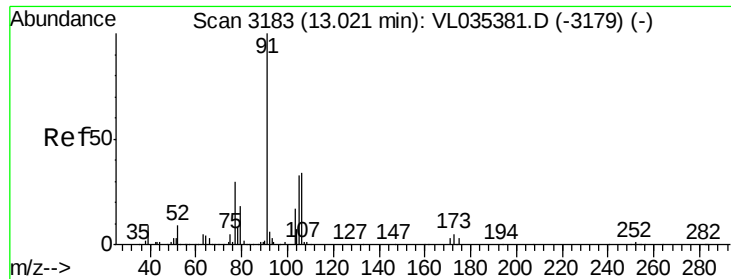
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 285438 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 106       | 32.3  | 25.1  | 37.7   |



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





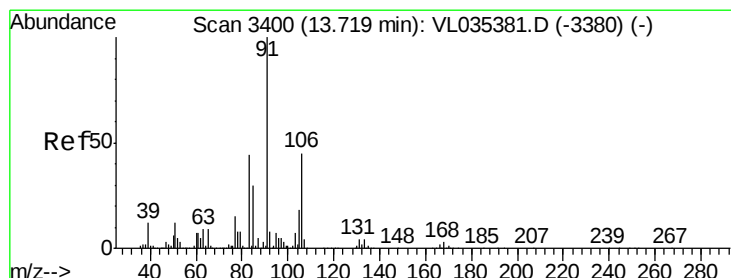
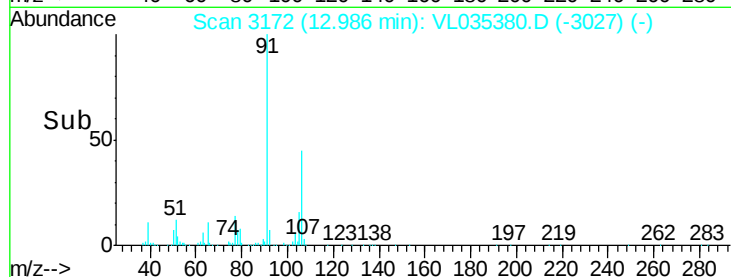
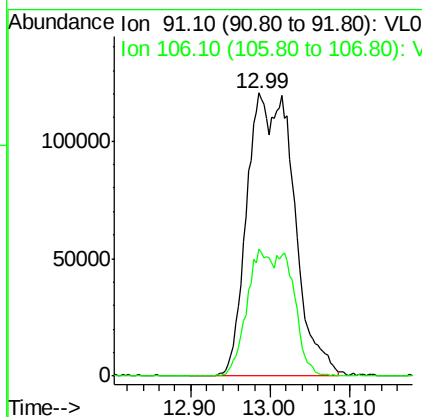
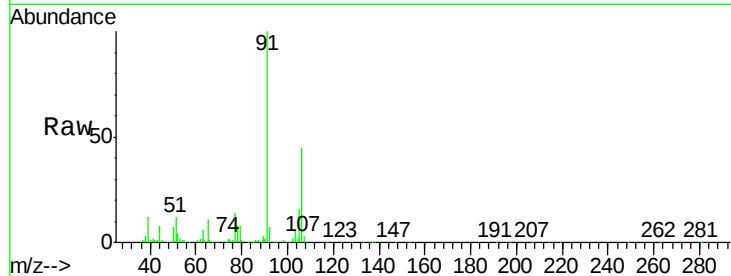
#59  
m/p-Xylene  
Concen: 1.693 ppbv m  
RT: 12.99 min Scan# 3172  
Delta R.T. -0.04 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tot Ion: 91 Resp: 491964  
Ion Ratio Lower Upper  
91 100  
106 0.0 36.7 55.1#

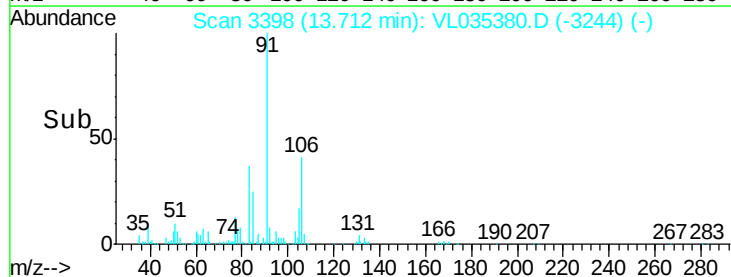
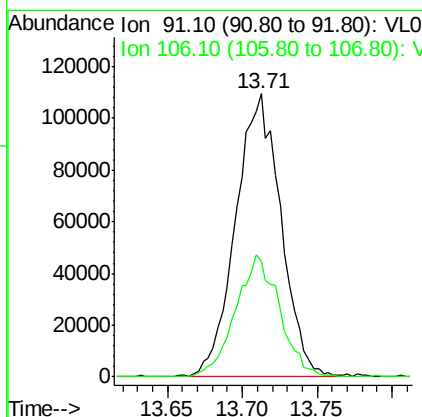
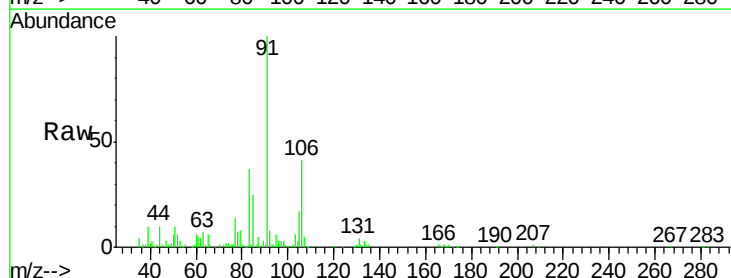
Manual Integrations  
APPROVED

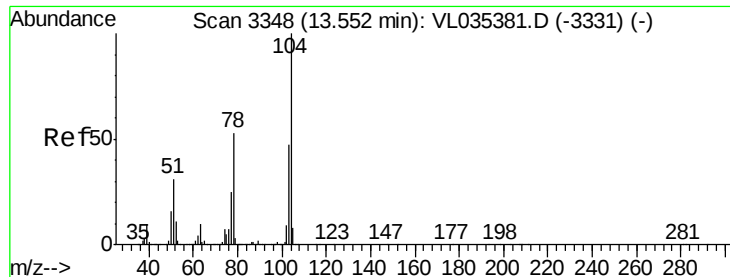
MMDadoda  
8/17/2020 5:43:42 PM



#60  
o-Xylene  
Concen: 0.790 ppbv  
RT: 13.71 min Scan# 3398  
Delta R.T. -0.01 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

Tgt Ion: 91 Resp: 227682  
Ion Ratio Lower Upper  
91 100  
106 42.6 22.2 66.6





#61

Stvrene

Concen: 0.950 ppbv

RT: 13.55 min Scan# 3347

Delta R.T. -0.00 min

Lab File: VL035380.D

Acq: 12 Aug 2020 11:08

Instrument :

MSVOA\_L

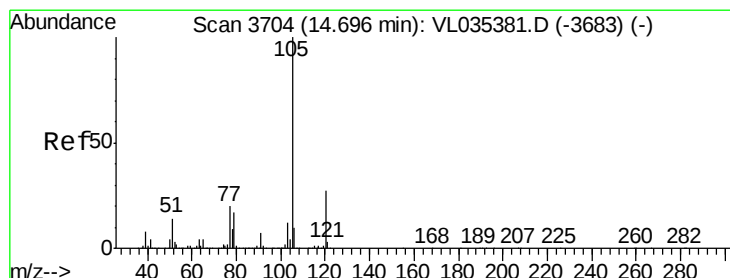
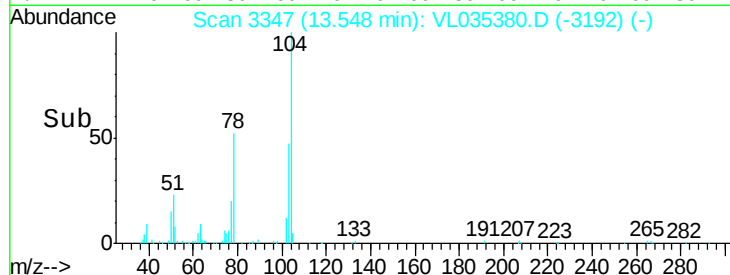
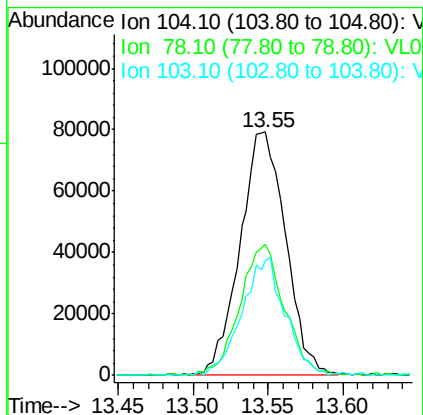
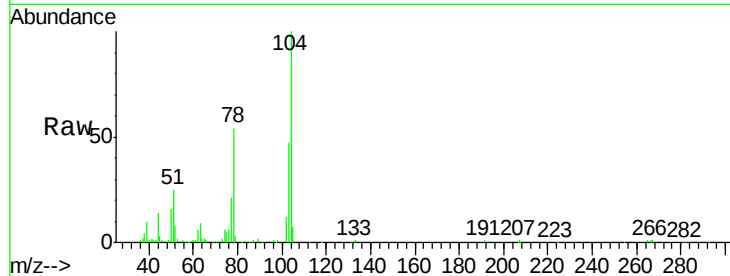
ClientSampleId :

VSTDIC0.5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 104   | Resp: | 167191 |
| Ion Ratio | Lower | Upper |        |
| 104       | 100   |       |        |
| 78        | 53.0  | 43.0  | 64.4   |
| 103       | 46.6  | 37.9  | 56.9   |

Manual Integrations  
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8/17/2020 5:43:42 PM



#62

Isopropylbenzene

Concen: 0.822 ppbv

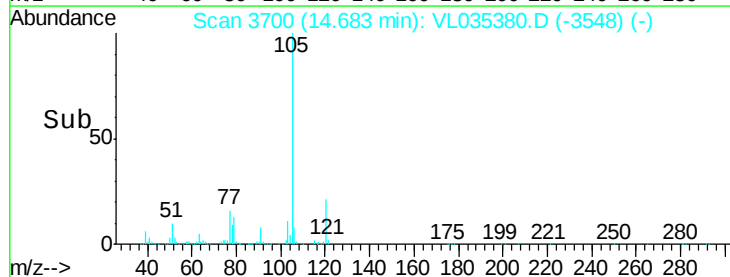
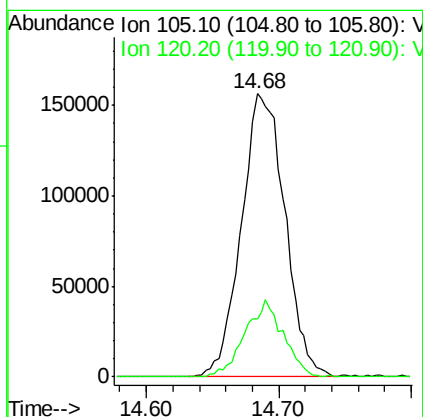
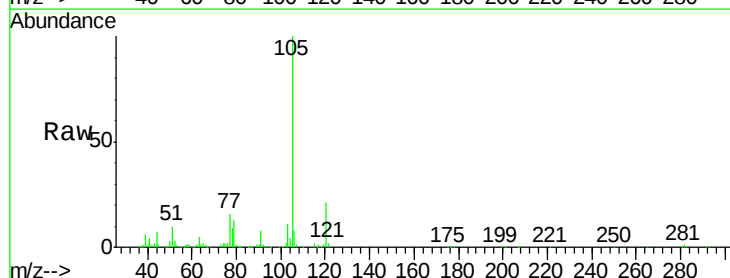
RT: 14.68 min Scan# 3700

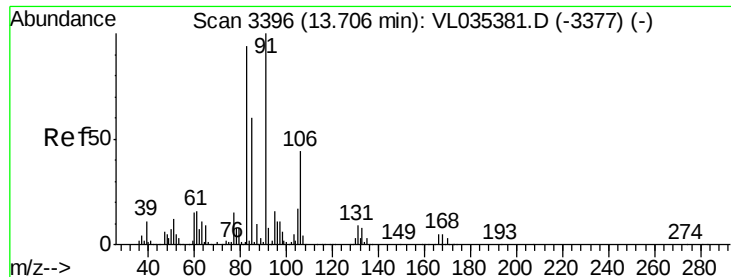
Delta R.T. -0.01 min

Lab File: VL035380.D

Acq: 12 Aug 2020 11:08

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 356849 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 24.1  | 21.1  | 31.7   |





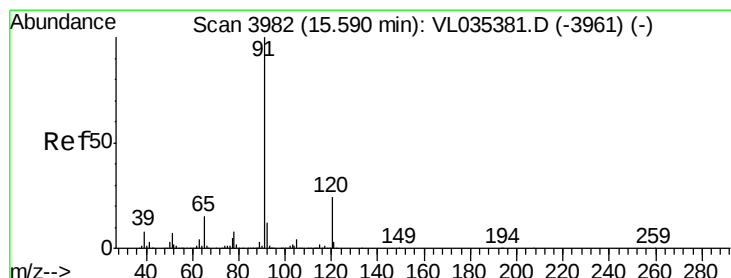
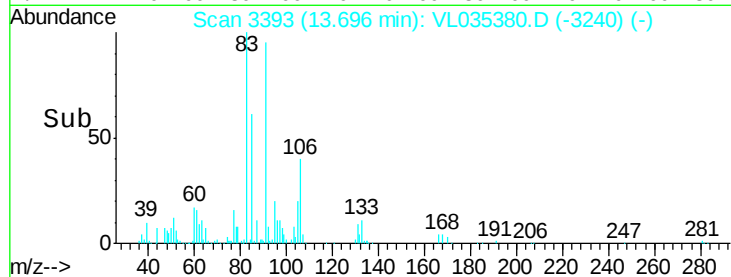
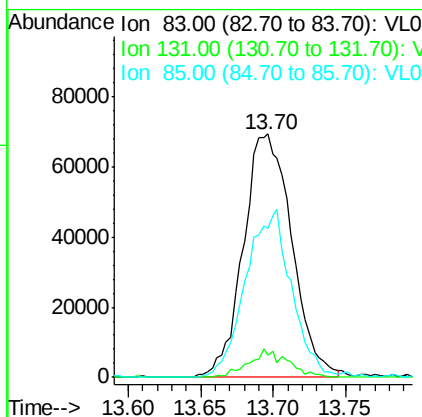
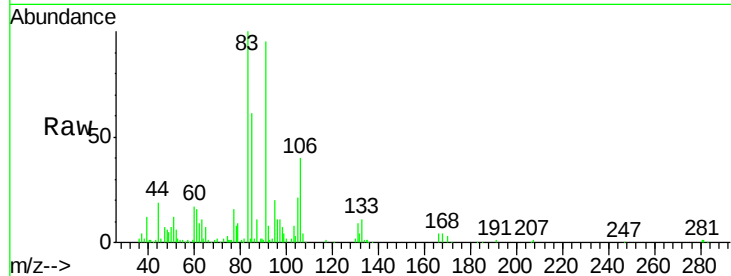
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 0.657 ppbv  
 RT: 13.70 min Scan# 3393  
 Delta R.T. -0.01 min  
 Lab File: VL035380.D  
 Acq: 12 Aug 2020 11:08

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 83      | 100   | 161584 |       |       |
| 131     | 9.2   | 4.5    | 13.7  |       |
| 85      | 65.6  | 32.4   | 97.0  |       |

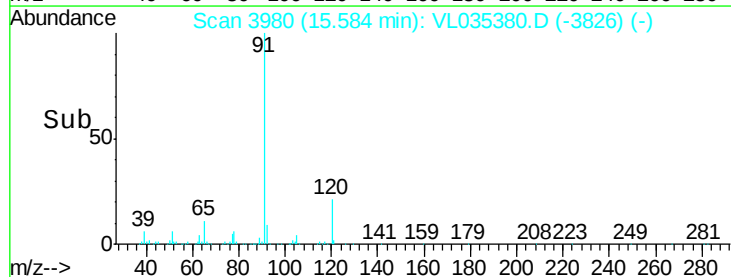
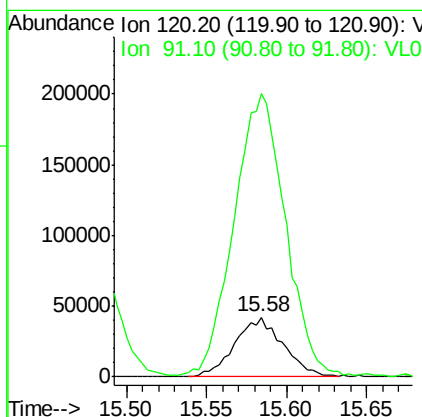
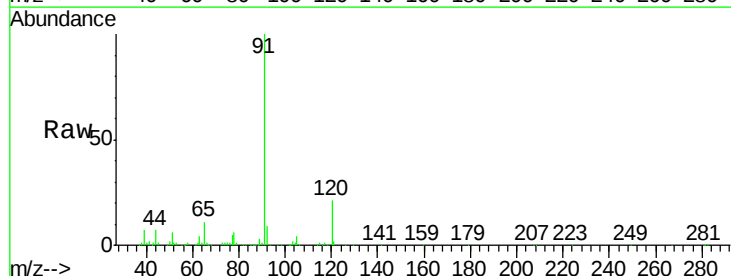
Manual Integrations  
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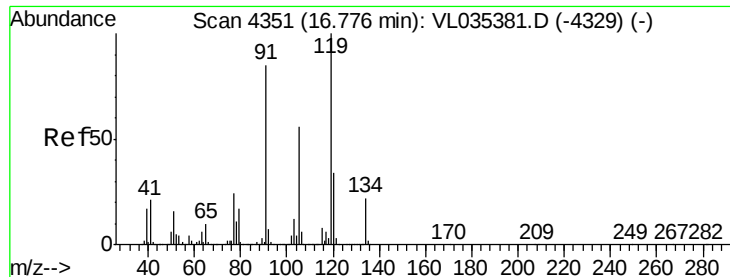
MMDadoda  
 8/17/2020 5:43:42 PM



#64  
 n-propylbenzene  
 Concen: 0.733 ppbv  
 RT: 15.58 min Scan# 3980  
 Delta R.T. -0.01 min  
 Lab File: VL035380.D  
 Acq: 12 Aug 2020 11:08

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 120     | 100   | 85521 |       |       |
| 91      | 522.4 | 356.2 | 534.4 |       |





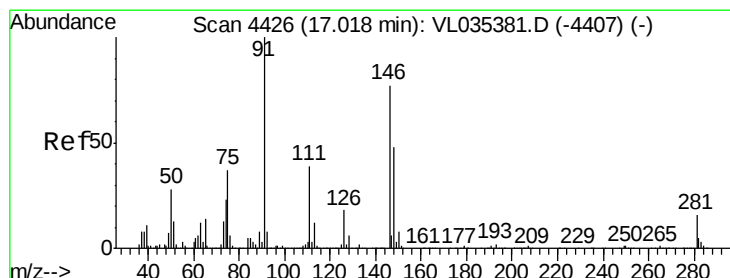
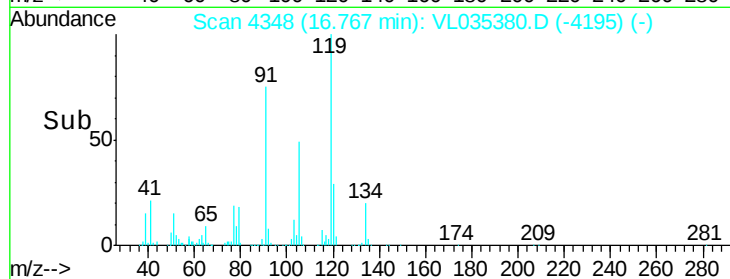
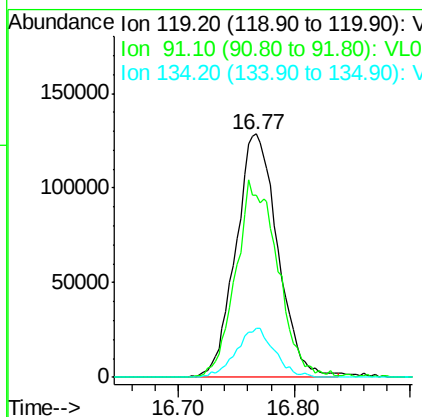
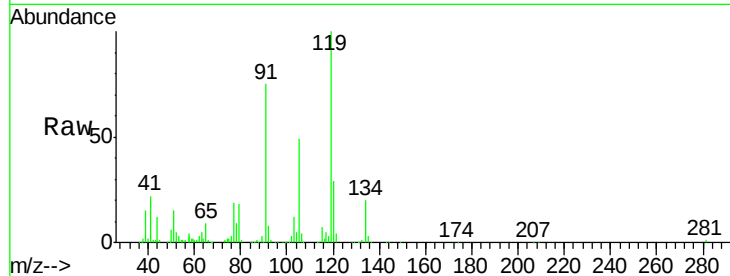
#65  
tert-Butylbenzene  
Concen: 0.811 ppbv  
RT: 16.77 min Scan# 4348  
Delta R.T. -0.01 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 81.7  | 68.2  | 102.4 |
| 134     | 18.7  | 16.2  | 24.4  |

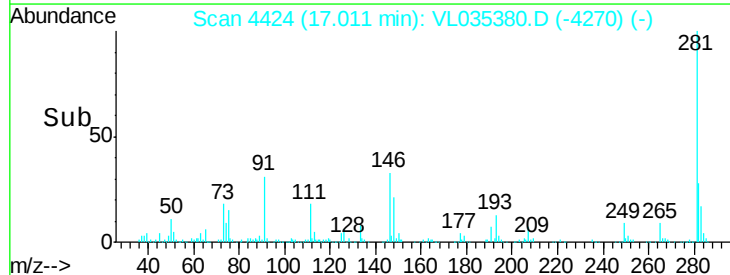
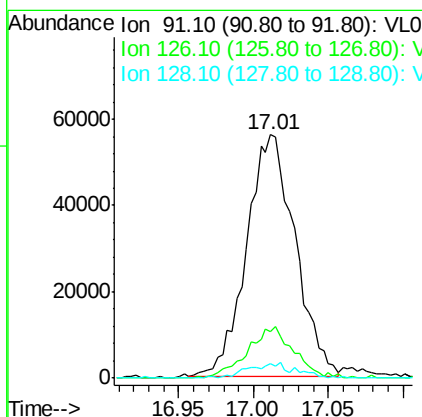
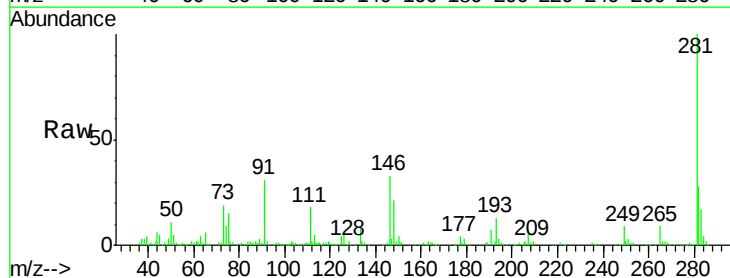
Manual Integrations  
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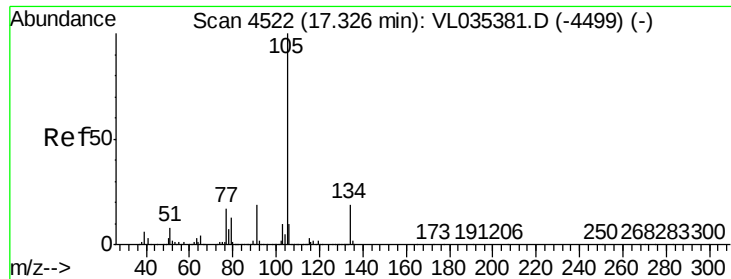
MMDadoda  
8/17/2020 5:43:42 PM



#66  
Benzyl Chloride  
Concen: 0.804 ppbv  
RT: 17.01 min Scan# 4424  
Delta R.T. -0.01 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 20.4  | 14.4  | 21.6  |
| 128     | 6.3   | 4.6   | 7.0   |





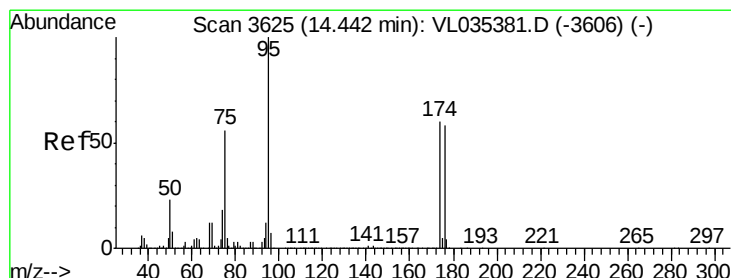
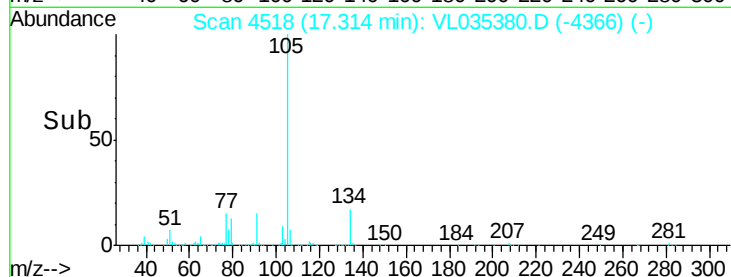
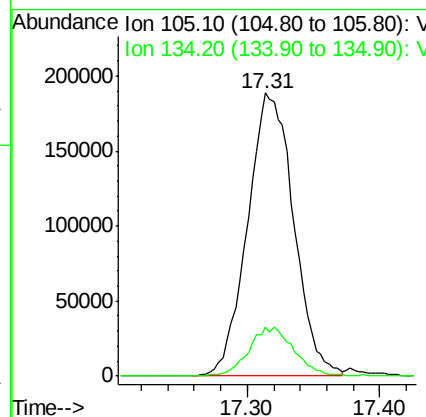
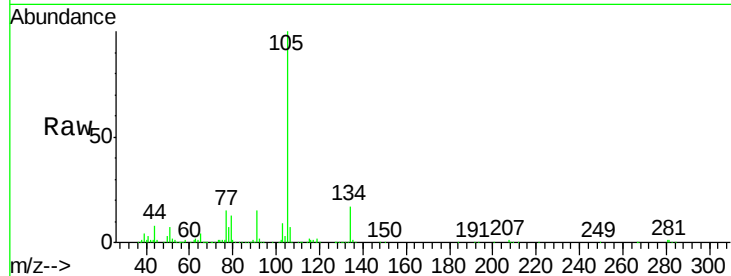
#67  
 sec-Butylbenzene  
 Concen: 0.812 ppbv  
 RT: 17.31 min Scan# 4518  
 Delta R.T. -0.01 min  
 Lab File: VL035380.D  
 Acq: 12 Aug 2020 11:08

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 134     | 17.2  | 15.0  | 22.6  |

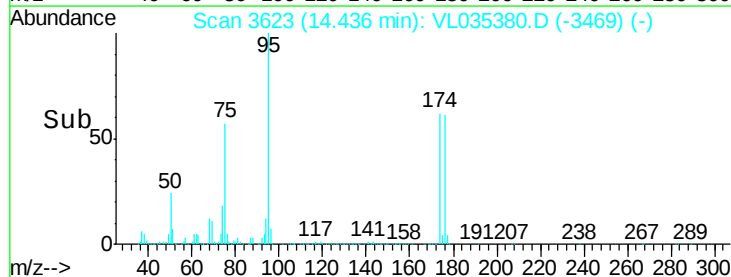
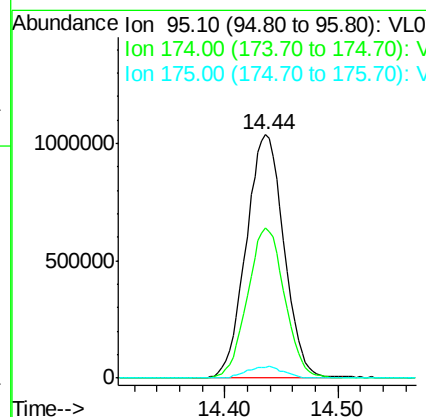
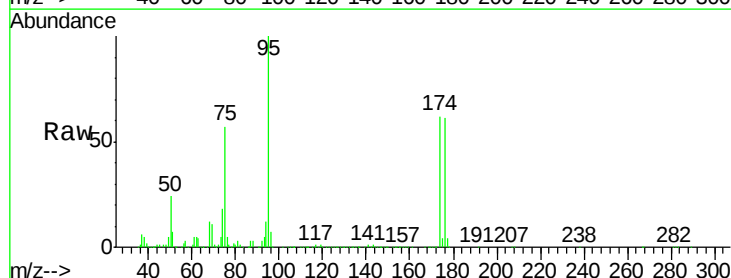
Manual Integrations  
 APPROVED

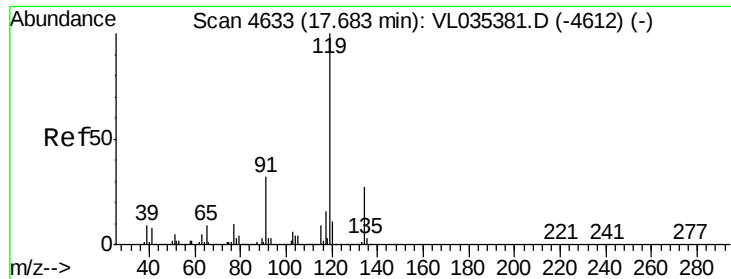
MMDadoda  
 8/17/2020 5:43:42 PM



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.635 ppbv  
 RT: 14.44 min Scan# 3623  
 Delta R.T. -0.01 min  
 Lab File: VL035380.D  
 Acq: 12 Aug 2020 11:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 60.7  | 48.2  | 72.2  |
| 175     | 4.8   | 3.7   | 5.5   |





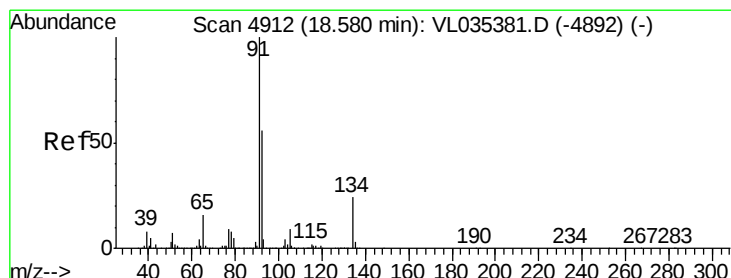
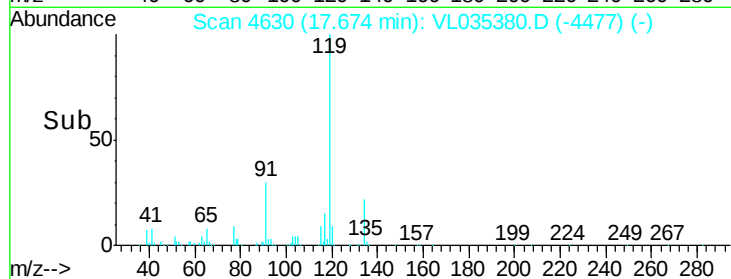
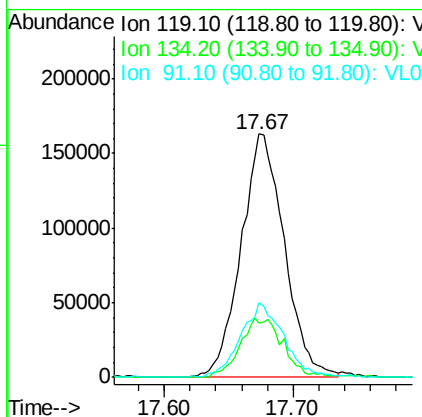
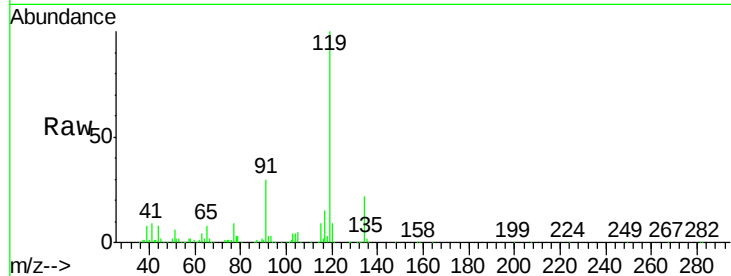
#69  
 p-Isopropyltoluene  
 Concen: 0.827 ppbv  
 RT: 17.67 min Scan# 4630  
 Delta R.T. -0.01 min  
 Lab File: VL035380.D  
 Acq: 12 Aug 2020 11:08

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 119   | Resp: | 379292 |
| Ion Ratio | Lower | Upper |        |
| 119       | 100   |       |        |
| 134       | 24.7  | 20.9  | 31.3   |
| 91        | 31.0  | 25.3  | 37.9   |

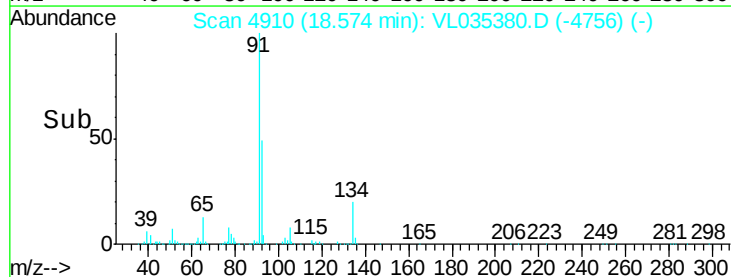
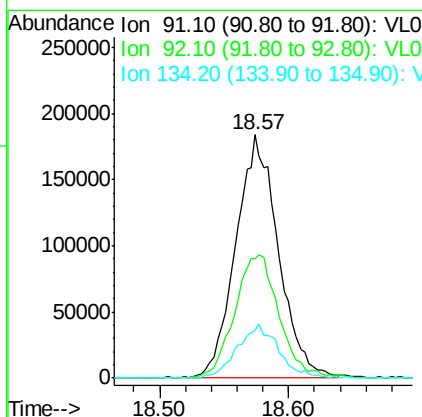
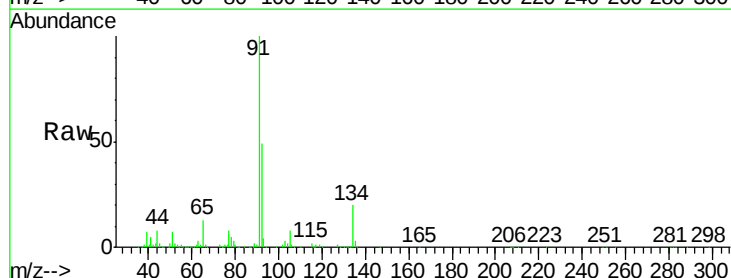
Manual Integrations  
 APPROVED

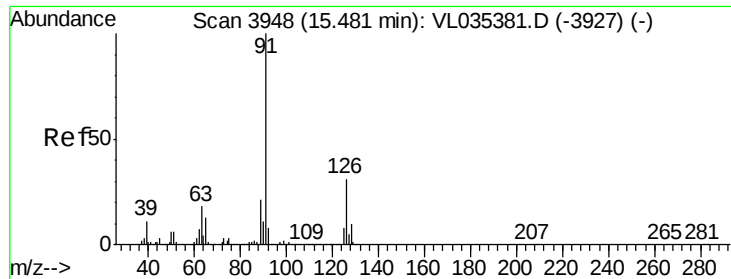
MMDadoda  
 8/17/2020 5:43:42 PM



#70  
 n-Butylbenzene  
 Concen: 0.853 ppbv  
 RT: 18.57 min Scan# 4910  
 Delta R.T. -0.01 min  
 Lab File: VL035380.D  
 Acq: 12 Aug 2020 11:08

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 417990 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 92        | 53.8  | 45.0  | 67.6   |
| 134       | 21.8  | 18.8  | 28.2   |





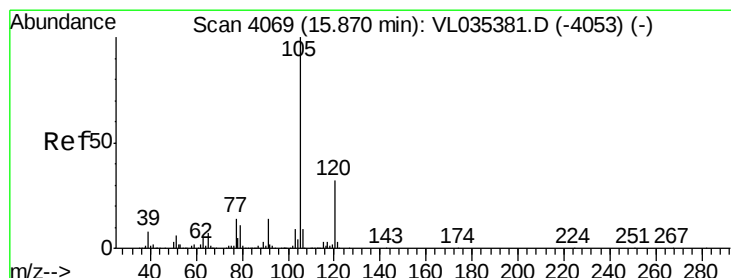
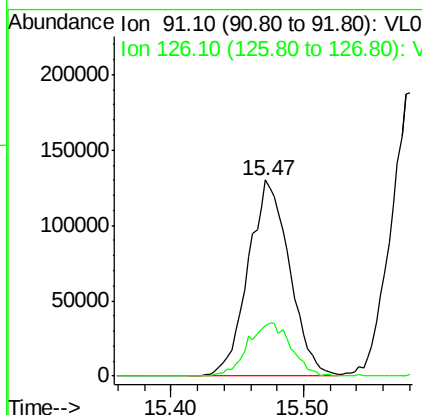
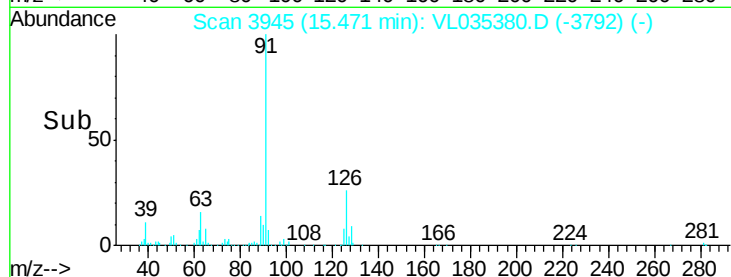
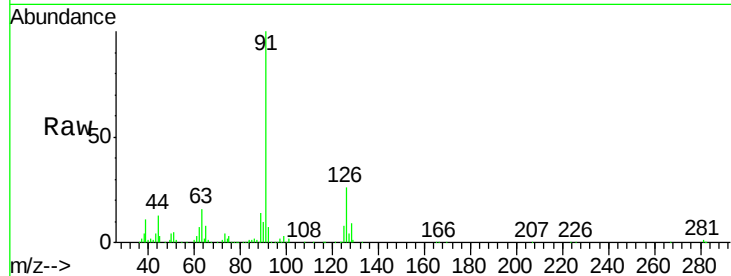
#71  
 2-Chlorotoluene  
 Concen: 0.890 ppbv  
 RT: 15.47 min Scan# 3945  
 Delta R.T. -0.01 min  
 Lab File: VL035380.D  
 Acq: 12 Aug 2020 11:08

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 28.7  | 12.1  | 48.3  |

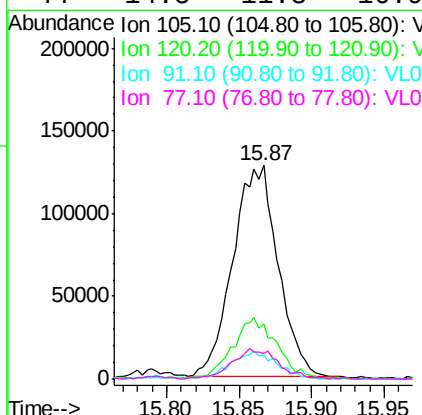
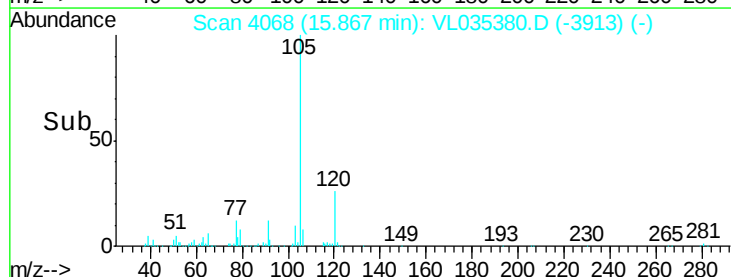
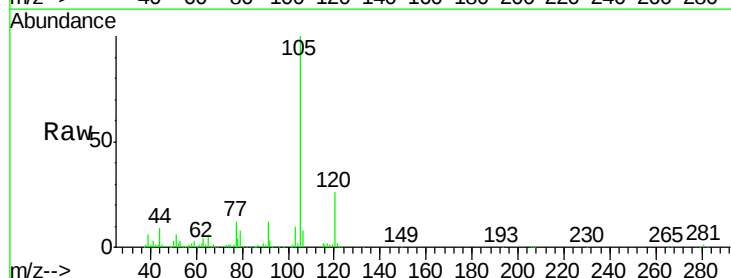
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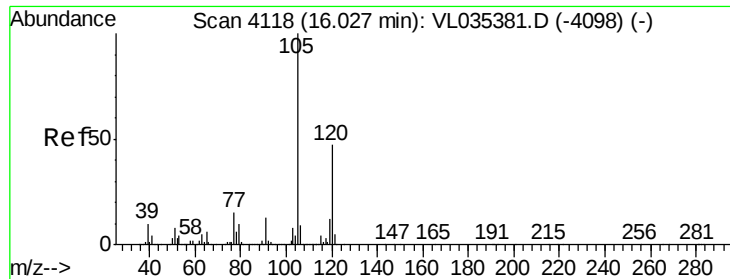
MMDadoda  
 8/17/2020 5:43:42 PM



#72  
 4-Ethyltoluene  
 Concen: 0.844 ppbv  
 RT: 15.87 min Scan# 4068  
 Delta R.T. -0.00 min  
 Lab File: VL035380.D  
 Acq: 12 Aug 2020 11:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 28.3  | 24.0  | 36.0  |
| 91      | 13.4  | 10.4  | 15.6  |
| 77      | 14.5  | 11.3  | 16.9  |





#73

1,3,5-Trimethylbenzene

Concen: 0.864 ppbv

RT: 16.01 min Scan# 4114

Delta R.T. -0.01 min

Lab File: VL035380.D

Acq: 12 Aug 2020 11:08

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 272548

Ion Ratio Lower Upper

105 100

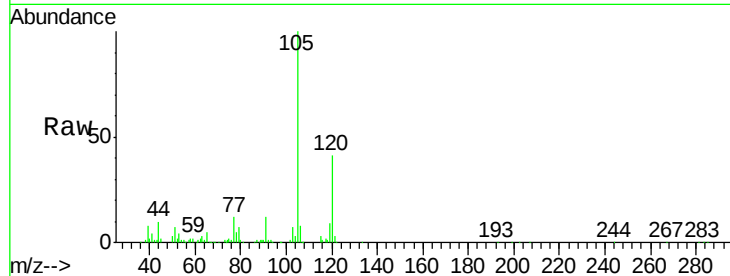
120 41.1 37.4 56.0

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

150000

100000

50000

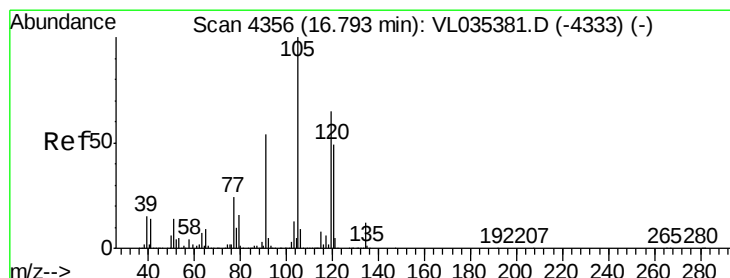
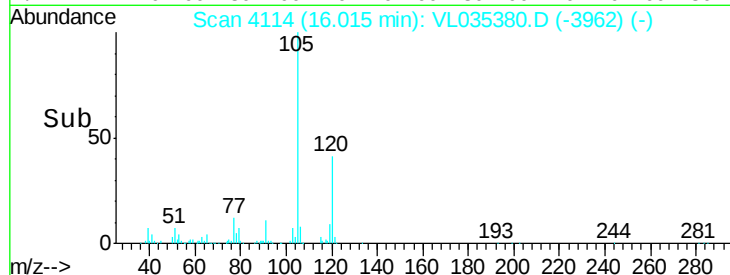
0

16.01

16.00

16.10

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 0.791 ppbv

RT: 16.78 min Scan# 4353

Delta R.T. -0.01 min

Lab File: VL035380.D

Acq: 12 Aug 2020 11:08

Tgt Ion:105 Resp: 285026

Ion Ratio Lower Upper

105 100

120 49.5 39.1 58.7

91 53.6 43.7 65.5

77 21.8 19.0 28.6

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V

200000

150000

100000

50000

0

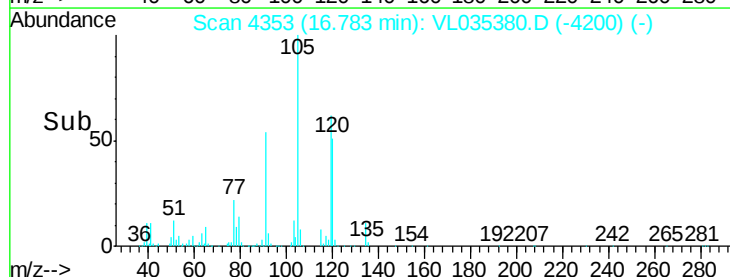
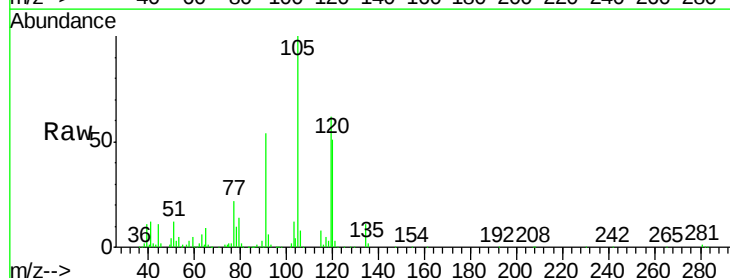
16.78

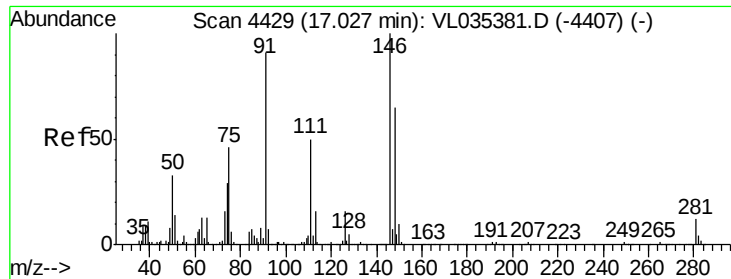
16.75

16.80

16.85

Time-->





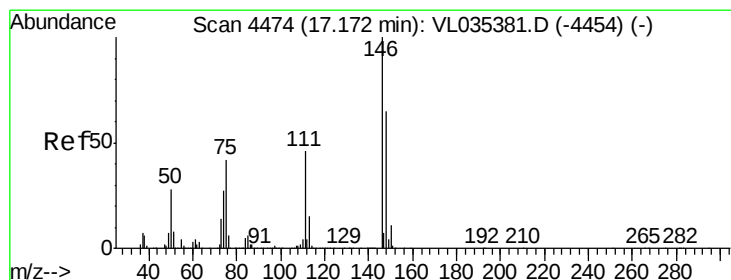
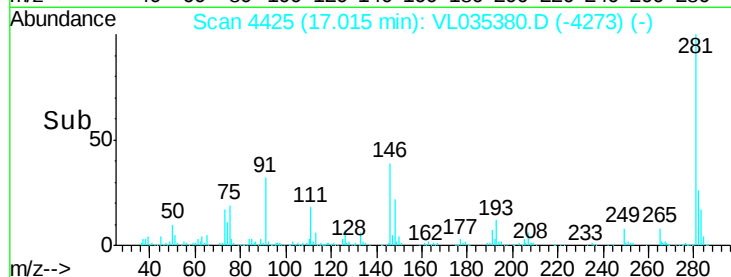
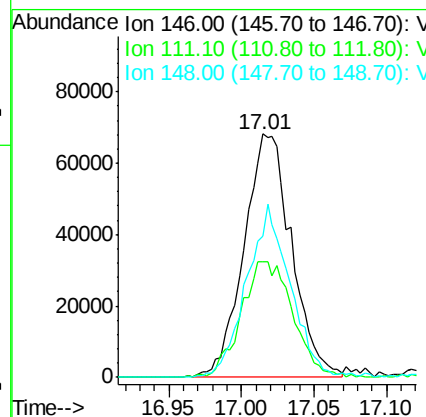
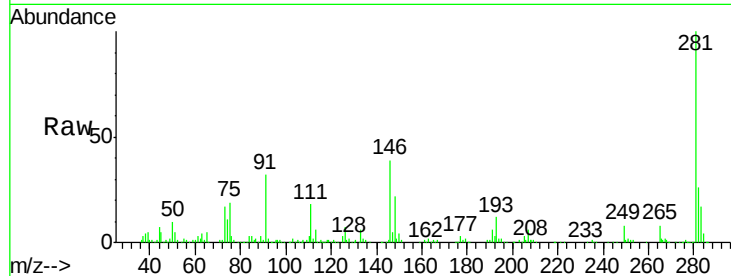
#75  
 1,3-Dichlorobenzene  
 Concen: 0.661 ppbv  
 RT: 17.01 min Scan# 4425  
 Delta R.T. -0.01 min  
 Lab File: VL035380.D  
 Acq: 12 Aug 2020 11:08

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 51.8  | 25.0  | 75.0  |
| 148     | 65.2  | 32.6  | 97.7  |

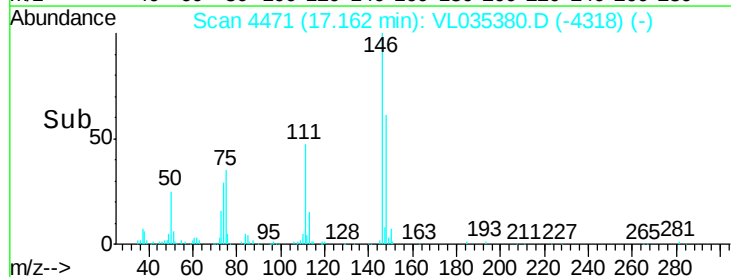
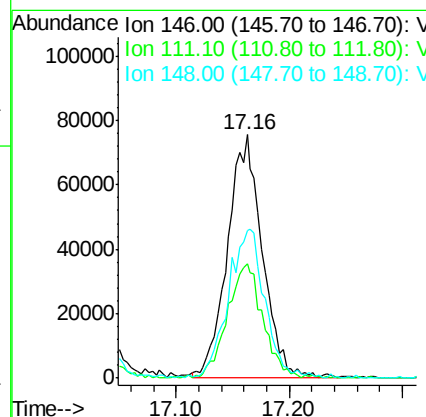
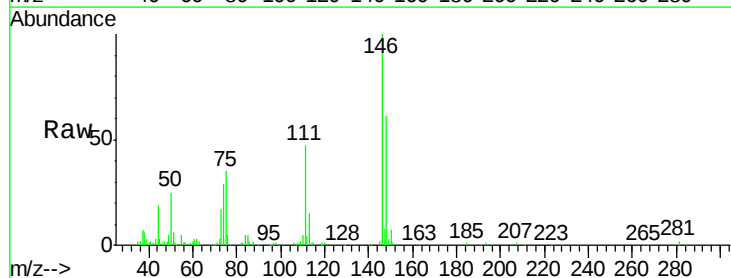
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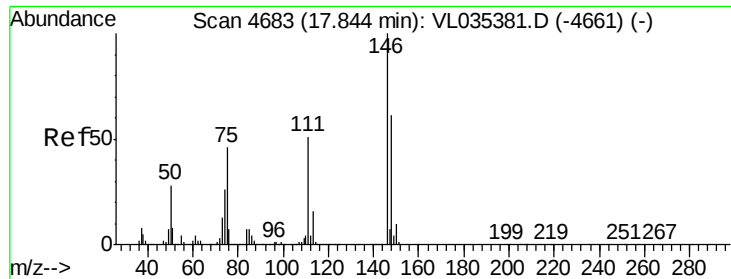
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 8/17/2020 5:43:42 PM



#76  
 1,4-Dichlorobenzene  
 Concen: 0.743 ppbv m  
 RT: 17.16 min Scan# 4471  
 Delta R.T. -0.01 min  
 Lab File: VL035380.D  
 Acq: 12 Aug 2020 11:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 0.0   | 24.0  | 72.0# |
| 148     | 0.0   | 32.5  | 97.5# |





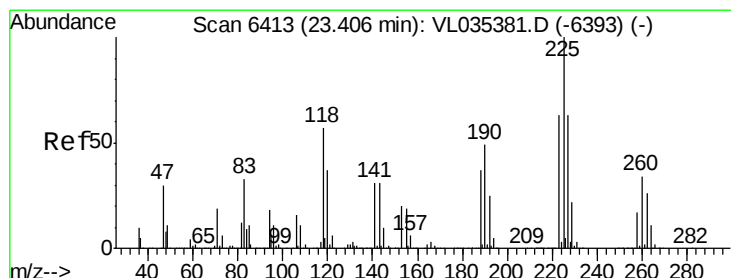
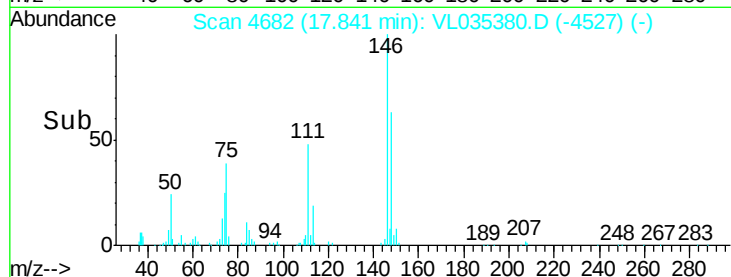
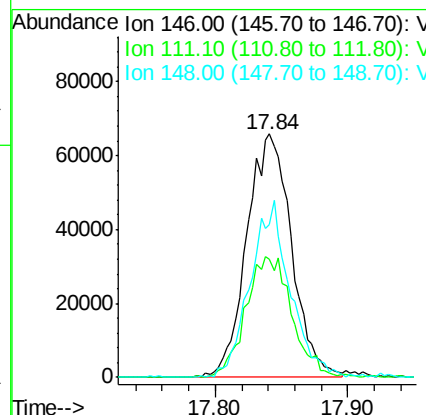
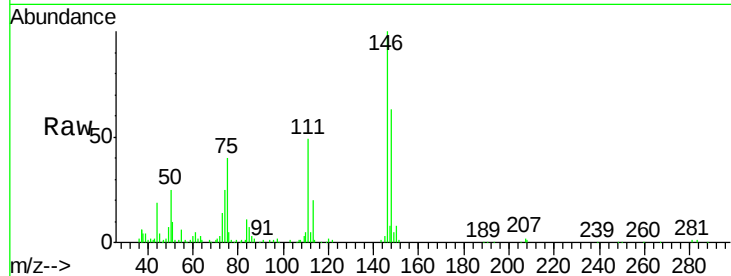
#77  
 1,2-Dichlorobenzene  
 Concen: 0.711 ppbv  
 RT: 17.84 min Scan# 4682  
 Delta R.T. -0.00 min  
 Lab File: VL035380.D  
 Acq: 12 Aug 2020 11:08

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 51.3  | 25.9  | 77.8  |
| 148     | 65.5  | 32.1  | 96.3  |

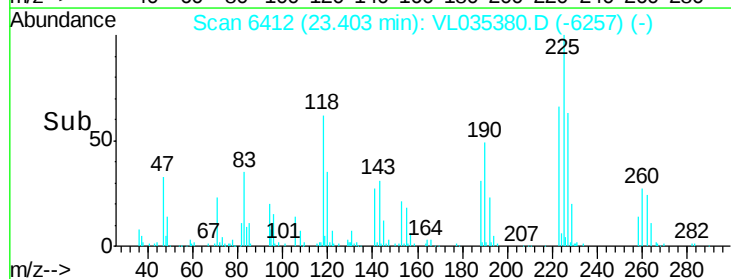
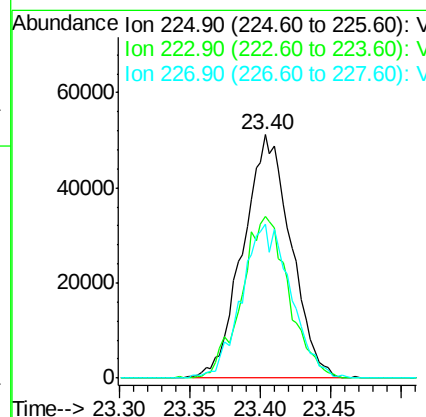
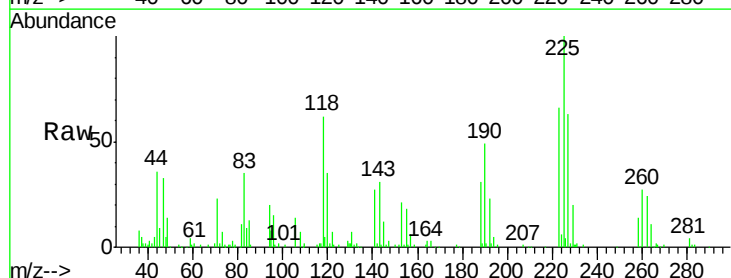
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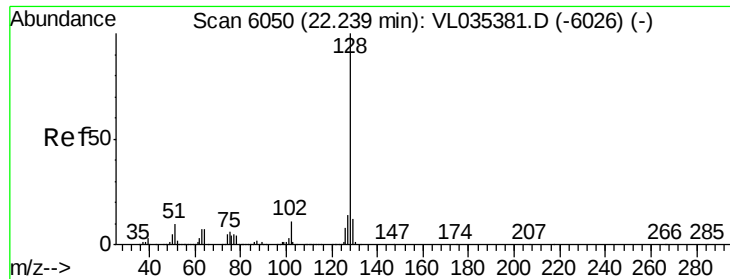
MMDadoda  
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#78  
 Hexachloro-1,3-Butadiene  
 Concen: 0.656 ppbv  
 RT: 23.40 min Scan# 6412  
 Delta R.T. -0.00 min  
 Lab File: VL035380.D  
 Acq: 12 Aug 2020 11:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 65.5  | 51.0  | 76.6  |
| 227     | 64.9  | 51.0  | 76.6  |





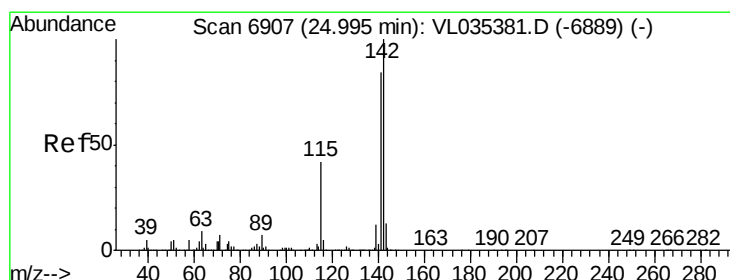
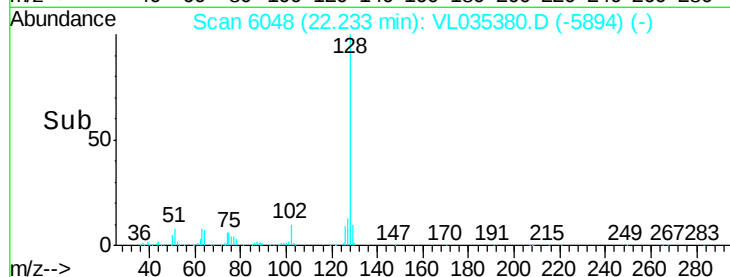
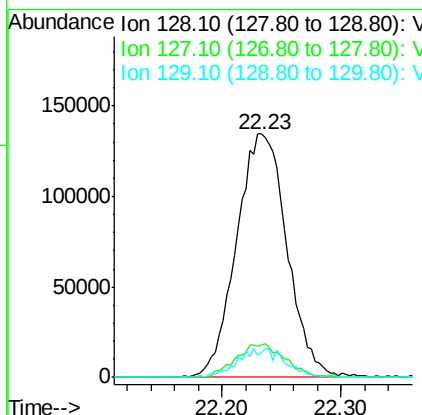
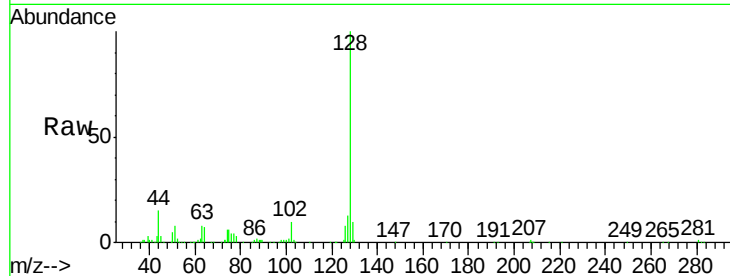
#79  
Naphthalene  
Concen: 1.407 ppbv  
RT: 22.23 min Scan# 6048  
Delta R.T. -0.01 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 128     | 100   | 390090 |       |       |
| 127     | 13.3  | 11.0   | 16.4  |       |
| 129     | 9.9   | 9.2    | 13.8  |       |

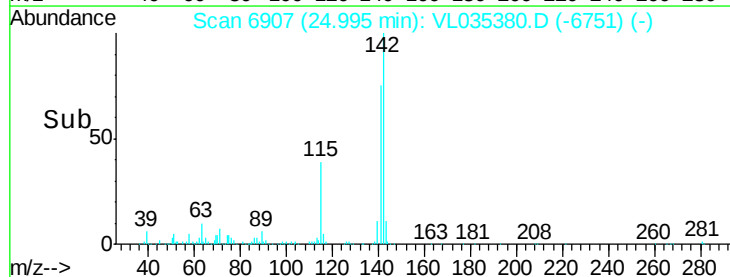
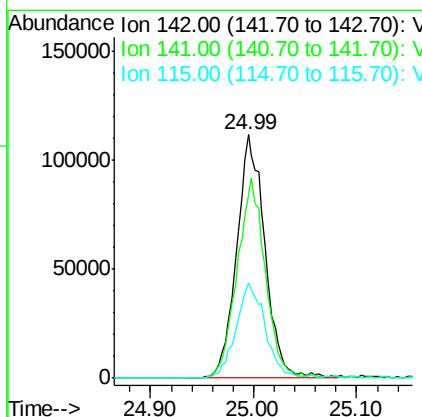
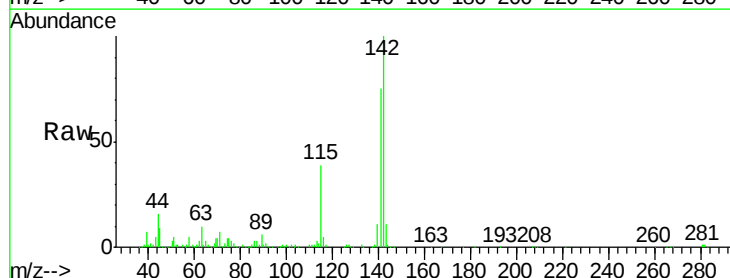
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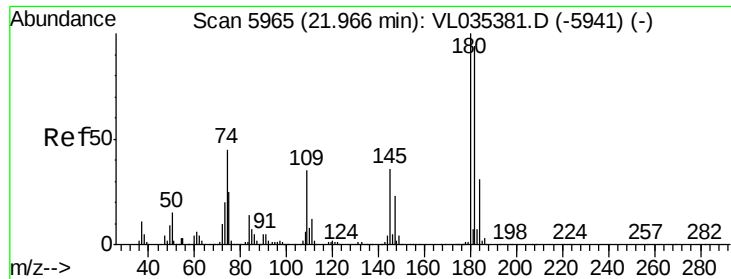
MMDadoda  
8/17/2020 5:43:42 PM



#80  
Naphthalene, 2-methyl-  
Concen: 3.388 ppbv  
RT: 24.99 min Scan# 6907  
Delta R.T. 0.00 min  
Lab File: VL035380.D  
Acq: 12 Aug 2020 11:08

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 142     | 100   | 213703 |       |       |
| 141     | 82.3  | 67.7   | 101.5 |       |
| 115     | 40.7  | 34.0   | 51.0  |       |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 1.039 ppbv m  
 RT: 21.96 min Scan# 5963  
 Delta R.T. -0.01 min  
 Lab File: VL035380.D  
 Acq: 12 Aug 2020 11:08

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 180   | Resp: | 181538 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 94.7  | 77.6  | 116.4  |
| 184       | 30.8  | 24.7  | 37.1   |

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