

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081720\  
 Data File : VL035429.D  
 Acq On : 17 Aug 2020 22:26  
 Operator : SY/AP  
 Sample : VL0817ABS01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 VL0817ABS01

Manual Integrations  
 APPROVED

MMDadoda  
 8/20/2020 11:05:55 AM

Quant Time: Aug 18 06:59:49 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Aug 18 2020  
 QLast Update : Mon Aug 17 19:28:30 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.68  | 49   | 1080119  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.20  | 114  | 4957071  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.12 | 117  | 5229552m | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.45  | 95    | 3632408  | 9.92     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.20% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.05 | 85   | 1763461  | 8.809  | ppbv   | 98     |
| 3) Chlorodifluoromethane       | 2.99 | 51   | 1219741  | 9.007  | ppbv # | 91     |
| 4) Chloromethane               | 3.14 | 50   | 645872   | 9.154  | ppbv   | 95     |
| 5) Vinyl Chloride              | 3.26 | 62   | 770227   | 9.135  | ppbv   | 99     |
| 6) Bromomethane                | 3.47 | 94   | 678924   | 9.207  | ppbv   | 97     |
| 7) Chloroethane                | 3.56 | 64   | 279637   | 9.002  | ppbv   | 93     |
| 8) Dichlorotetrafluoroethane   | 3.19 | 85   | 2233165  | 8.712  | ppbv # | 57     |
| 9) Propene                     | 3.01 | 41   | 492523   | 9.048  | ppbv   | 99     |
| 10) Heptane                    | 8.14 | 43   | 1317389  | 9.230  | ppbv # | 79     |
| 11) Trichlorofluoromethane     | 3.95 | 101  | 2801368  | 8.918  | ppbv   | 95     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49 | 101  | 2092856  | 8.941  | ppbv # | 77     |
| 13) Ethanol                    | 3.61 | 45   | 111619   | 5.597  | ppbv   | 98     |
| 14) Bromoethene                | 3.75 | 108  | 947693   | 9.161  | ppbv # | 95     |
| 15) Acetone                    | 3.85 | 43   | 975001   | 7.843  | ppbv # | 83     |
| 16) 1,3-Butadiene              | 3.33 | 39   | 469113   | 9.305  | ppbv # | 67     |
| 17) tert-Butyl alcohol         | 4.30 | 59   | 1518245  | 9.449  | ppbv   | 98     |
| 18) 1,1-Dichloroethene         | 4.29 | 96   | 955349   | 9.243  | ppbv # | 62     |
| 19) Isopropyl Alcohol          | 3.97 | 45   | 751421   | 8.769  | ppbv # | 98     |
| 20) Methylene Chloride         | 4.35 | 84   | 748285   | 7.460  | ppbv # | 64     |
| 21) Allyl Chloride             | 4.42 | 41   | 613051   | 9.704  | ppbv # | 82     |
| 22) trans-1,2-Dichloroethene   | 4.89 | 96   | 1016369  | 9.215  | ppbv # | 64     |
| 23) Vinyl Acetate              | 5.09 | 43   | 1672764  | 9.412  | ppbv # | 93     |
| 24) 1,1-Dichloroethane         | 5.02 | 63   | 1609877  | 9.077  | ppbv # | 93     |
| 25) Ethyl Acetate              | 5.69 | 43   | 2106951  | 8.709  | ppbv # | 93     |
| 26) Hexane                     | 5.70 | 57   | 1204276  | 8.821  | ppbv # | 74     |
| 27) Carbon Disulfide           | 4.56 | 76   | 1982284  | 10.045 | ppbv # | 85     |
| 28) Methyl tert-Butyl Ether    | 5.04 | 73   | 2290850  | 9.186  | ppbv   | 92     |
| 29) Chloroform                 | 5.77 | 83   | 2486918  | 9.066  | ppbv   | 96     |
| 30) Cyclohexane                | 7.15 | 84   | 1433455  | 9.464  | ppbv # | 60     |
| 31) cis-1,2-Dichloroethene     | 5.56 | 61   | 1332694  | 9.282  | ppbv # | 63     |
| 32) 1,1,1-Trichloroethane      | 6.53 | 97   | 2570904  | 10.001 | ppbv # | 89     |
| 34) 2-Butanone                 | 5.26 | 43   | 1480960  | 8.942  | ppbv # | 74     |
| 35) Carbon Tetrachloride       | 7.04 | 117  | 2762933  | 10.480 | ppbv   | 97     |
| 36) Benzene                    | 6.91 | 78   | 3247338  | 8.926  | ppbv # | 93     |
| 37) 1,2-Dichloroethane         | 6.32 | 62   | 1527719  | 9.188  | ppbv # | 89     |
| 38) Trichloroethene            | 7.85 | 130  | 1825145  | 9.018  | ppbv # | 82     |
| 39) 1,2-Dichloropropane        | 7.64 | 63   | 1093548  | 9.120  | ppbv # | 84     |
| 40) 1,4-Dioxane                | 7.85 | 88   | 547908   | 8.388  | ppbv # | 32     |
| 41) Tetrahydrofuran            | 6.06 | 42   | 859334   | 9.406  | ppbv # | 62     |
| 42) Bromodichloromethane       | 7.81 | 83   | 2674307  | 9.612  | ppbv # | 97     |
| 43) Methyl Methacrylate        | 8.03 | 69   | 1344947  | 9.453  | ppbv # | 58     |

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 Data File : VL035429.D  
 Acq On : 17 Aug 2020 22:26  
 Operator : SY/AP  
 Sample : VL0817ABS01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0817ABS01

Manual Integrations  
 APPROVED

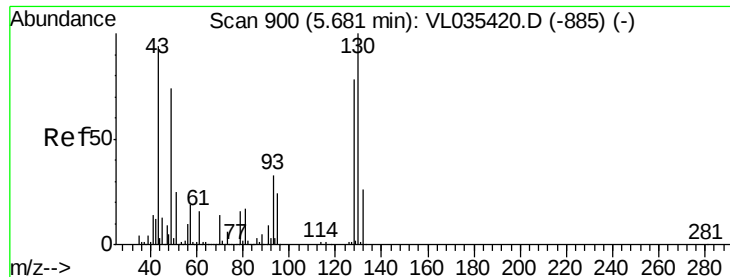
MMDadoda  
 8/20/2020 11:05:55 AM

Quant Time: Aug 18 06:59:49 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Aug 18 2020  
 QLast Update : Mon Aug 17 19:28:30 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.89  | 57   | 4125058  | 8.682  | ppbv # | 92       |
| 45) t-1,3-Dichloropropene     | 9.30  | 75   | 1571835  | 10.725 | ppbv   | 95       |
| 46) cis-1,3-Dichloropropene   | 8.73  | 75   | 1853693  | 10.153 | ppbv # | 76       |
| 47) 1,1,2-Trichloroethane     | 9.50  | 97   | 1624586  | 9.071  | ppbv   | 91       |
| 48) Dibromochloromethane      | 10.33 | 129  | 3027972  | 10.078 | ppbv   | 99       |
| 49) Bromoform                 | 13.07 | 173  | 3060835  | 10.575 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.76  | 43   | 2201265  | 9.266  | ppbv # | 82       |
| 51) 2-Hexanone                | 10.16 | 43   | 1894499  | 9.460  | ppbv # | 78       |
| 52) Tetrachloroethene         | 11.25 | 164  | 2005212  | 9.036  | ppbv # | 83       |
| 53) Toluene                   | 9.83  | 91   | 4215634  | 8.996  | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 10.64 | 107  | 2643202  | 9.087  | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 12.16 | 131  | 2334104  | 9.409  | ppbv   | 96       |
| 57) Chlorobenzene             | 12.18 | 112  | 3729130  | 8.543  | ppbv # | 81       |
| 58) Ethyl Benzene             | 12.74 | 91   | 5550829  | 8.793  | ppbv # | 83       |
| 59) m/p-Xylene                | 13.03 | 91   | 8906443m | 16.690 | ppbv   |          |
| 60) o-Xylene                  | 13.73 | 91   | 4544335  | 8.762  | ppbv   | 86       |
| 61) Styrene                   | 13.56 | 104  | 3881134  | 9.261  | ppbv # | 90       |
| 62) Isopropylbenzene          | 14.70 | 105  | 7160024  | 8.423  | ppbv # | 87       |
| 63) 1,1,2,2-Tetrachloroethane | 13.71 | 83   | 3161268  | 8.485  | ppbv   | 97       |
| 64) n-propylbenzene           | 15.60 | 120  | 2397085  | 9.149  | ppbv # | 44       |
| 65) tert-Butylbenzene         | 16.78 | 119  | 6995869  | 8.469  | ppbv # | 82       |
| 66) Benzyl Chloride           | 17.03 | 91   | 2357666  | 11.866 | ppbv # | 88       |
| 67) sec-Butylbenzene          | 17.33 | 105  | 8865824  | 8.155  | ppbv # | 82       |
| 69) p-Isopropyltoluene        | 17.69 | 119  | 8154047  | 8.453  | ppbv # | 89       |
| 70) n-Butylbenzene            | 18.59 | 91   | 7679240  | 8.428  | ppbv # | 90       |
| 71) 2-Chlorotoluene           | 15.49 | 91   | 5432834  | 8.808  | ppbv   | 77       |
| 72) 4-Ethyltoluene            | 15.88 | 105  | 6037374  | 8.870  | ppbv # | 91       |
| 73) 1,3,5-Trimethylbenzene    | 16.03 | 105  | 5656578  | 8.932  | ppbv # | 82       |
| 74) 1,2,4-Trimethylbenzene    | 16.80 | 105  | 5831828  | 8.475  | ppbv # | 91       |
| 75) 1,3-Dichlorobenzene       | 17.03 | 146  | 4558742  | 8.577  | ppbv   | 91       |
| 76) 1,4-Dichlorobenzene       | 17.18 | 146  | 4640257  | 8.859  | ppbv   | 91       |
| 77) 1,2-Dichlorobenzene       | 17.85 | 146  | 4553738  | 8.747  | ppbv   | 91       |
| 78) Hexachloro-1,3-Butadiene  | 23.42 | 225  | 3517093  | 8.545  | ppbv   | 98       |
| 79) Naphthalene               | 22.25 | 128  | 8388271  | 8.656  | ppbv   | 97       |
| 80) Naphthalene, 2-methyl-    | 25.00 | 142  | 3957310  | 9.882  | ppbv # | 93       |
| 81) 1,2,4-Trichlorobenzene    | 21.98 | 180  | 5166290  | 8.844  | ppbv   | 99       |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0817ABS01

Tot Ion: 49 Resp: 1080119

Ion Ratio Lower Upper

49 100

128 104.4 20.9 62.7#

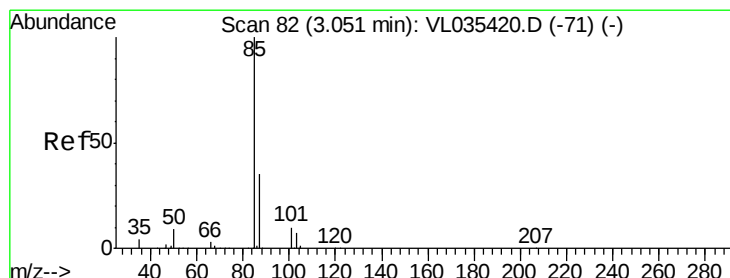
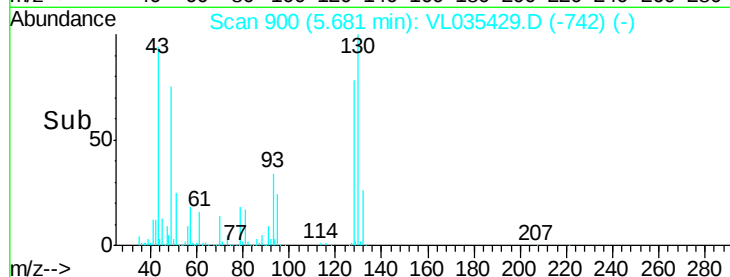
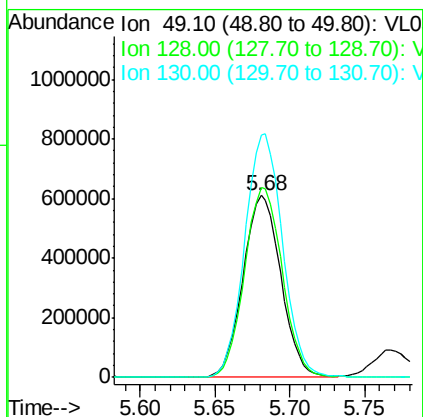
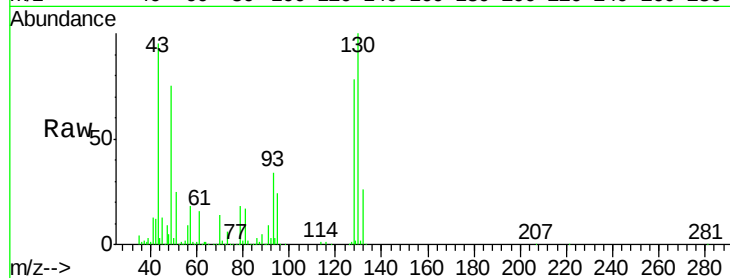
130 134.4 26.7 80.1#

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 8.809 ppbv

RT: 3.05 min Scan# 81

Delta R.T. 0.00 min

Lab File: VL035429.D

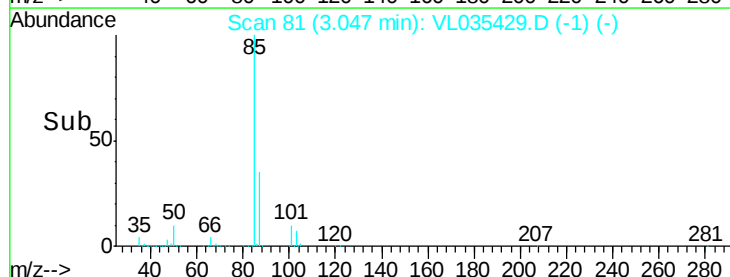
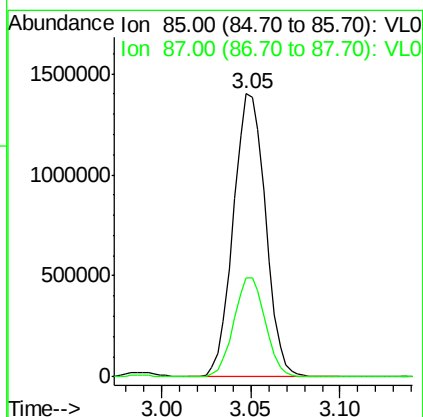
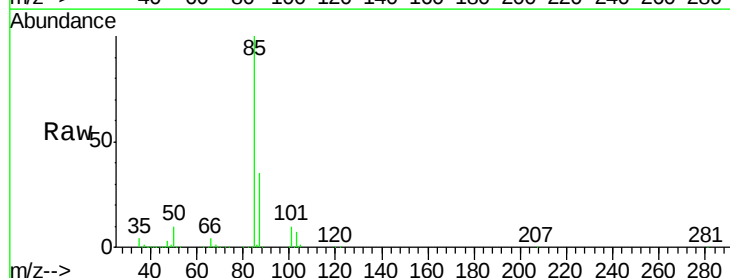
Acq: 17 Aug 2020 22:26

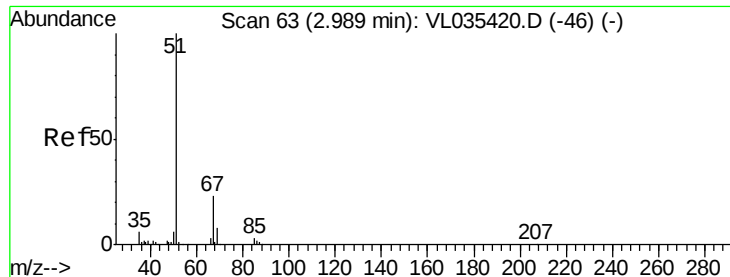
Tgt Ion: 85 Resp: 1763461

Ion Ratio Lower Upper

85 100

87 34.9 27.1 40.7





#3

Chlorodifluoromethane

Concen: 9.007 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0817ABS01

Tot Ion: 51 Resp: 1219741

Ion Ratio Lower Upper

51 100

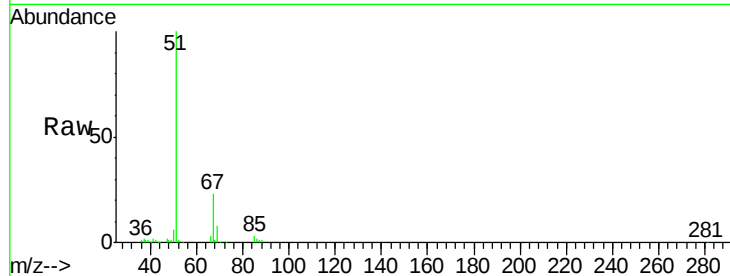
67 22.7 15.0 22.6#

Manual Integrations

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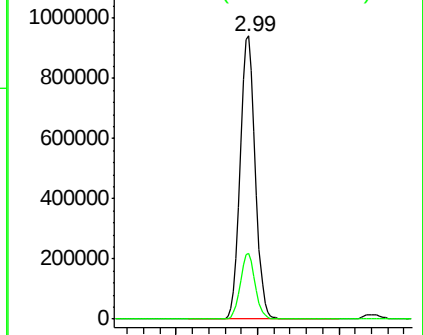
MMDadoda

8/20/2020 11:05:55 AM

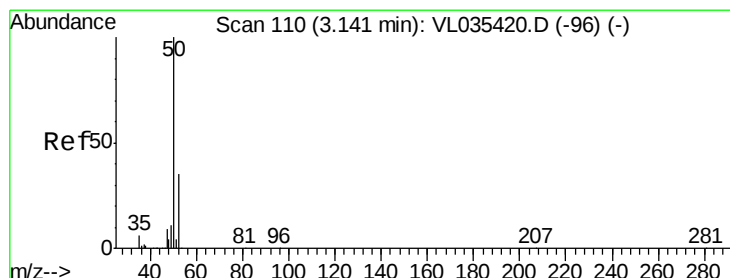
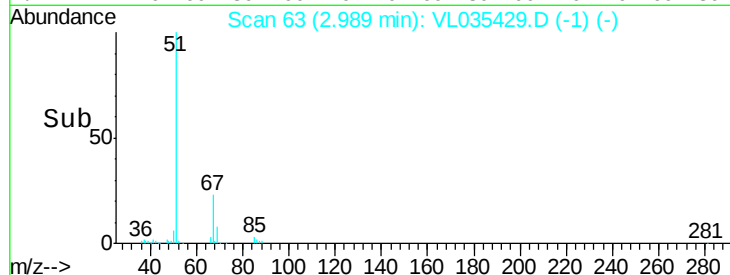


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Time-->



#4

Chloromethane

Concen: 9.154 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.01 min

Lab File: VL035429.D

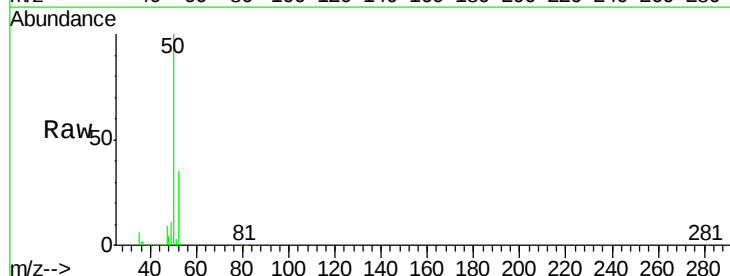
Acq: 17 Aug 2020 22:26

Tgt Ion: 50 Resp: 645872

Ion Ratio Lower Upper

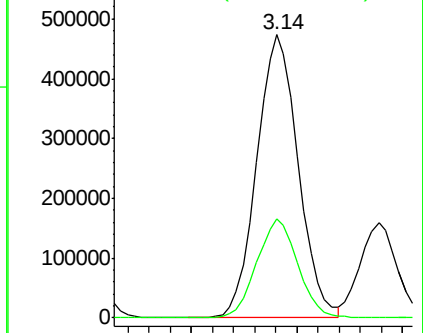
50 100

52 35.0 25.9 38.9

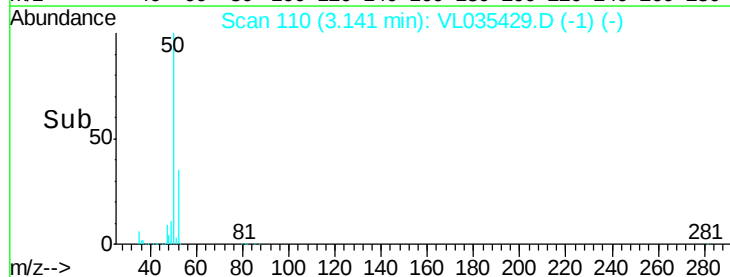


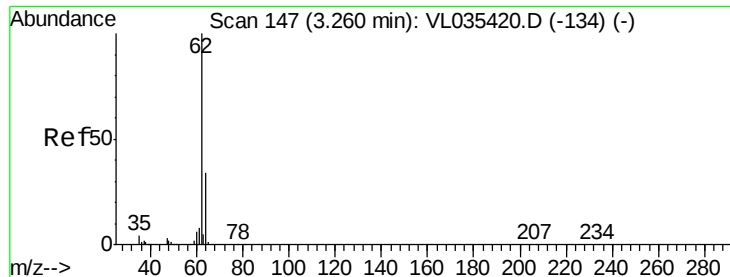
Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time-->





#5

Vinyl Chloride

Concen: 9.135 ppbv

RT: 3.26 min Scan# 147

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0817ABS01

Tot Ion: 62 Resp: 770227

Ion Ratio Lower Upper

62 100

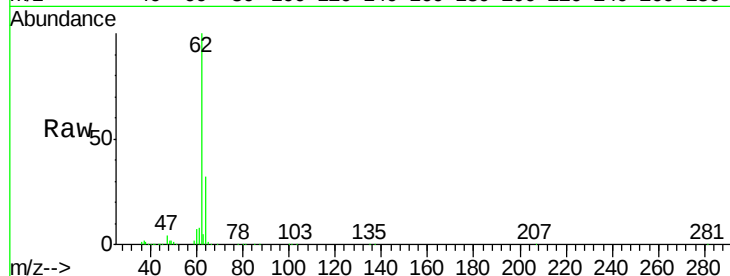
64 31.9 25.0 37.4

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.26

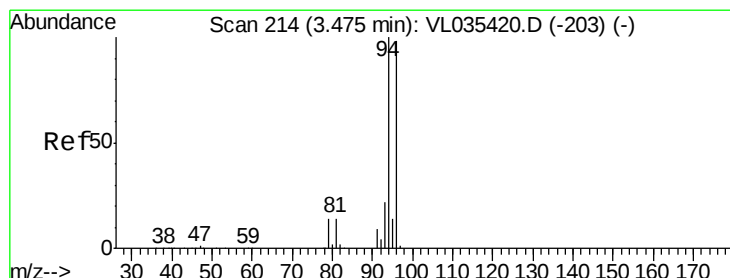
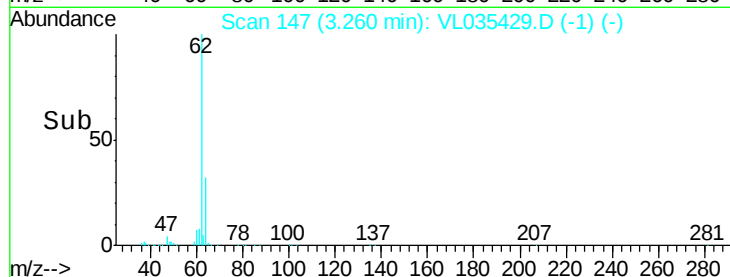
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 9.207 ppbv

RT: 3.47 min Scan# 214

Delta R.T. 0.01 min

Lab File: VL035429.D

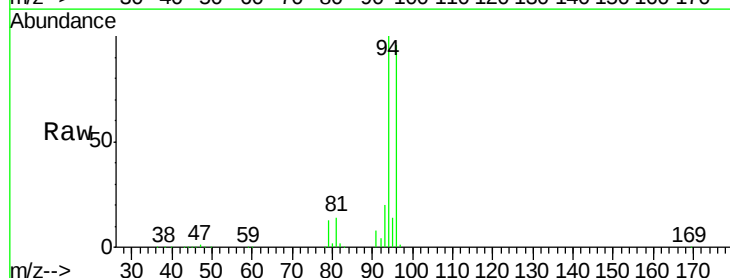
Acq: 17 Aug 2020 22:26

Tgt Ion: 94 Resp: 678924

Ion Ratio Lower Upper

94 100

96 96.3 75.0 112.6



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.47

500000

400000

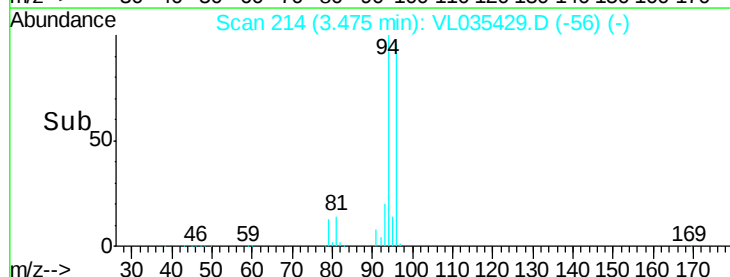
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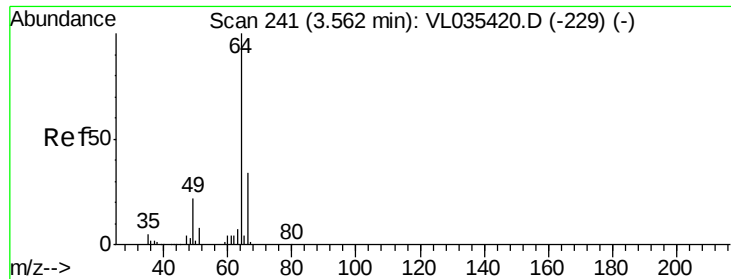
200000

100000

0

Time-->





#7

Chloroethane

Concen: 9.002 ppbv

RT: 3.56 min Scan# 240

Delta R.T. 0.00 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0817ABS01

Tot Ion: 64 Resp: 279637

Ion Ratio Lower Upper

64 100

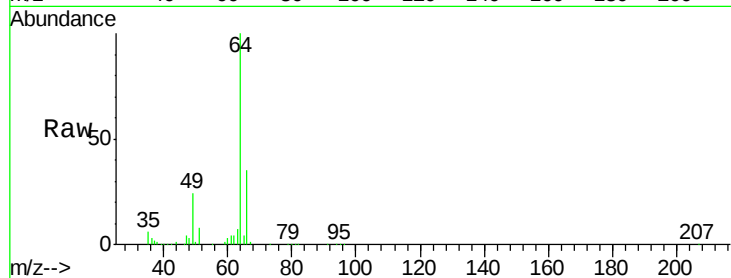
66 34.6 24.5 36.7

Manual Integrations

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MMDadoda

8/20/2020 11:05:55 AM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.56

200000

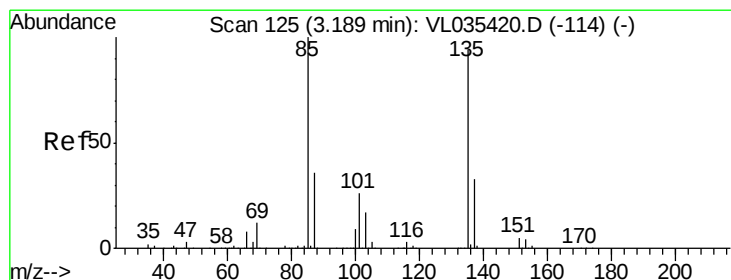
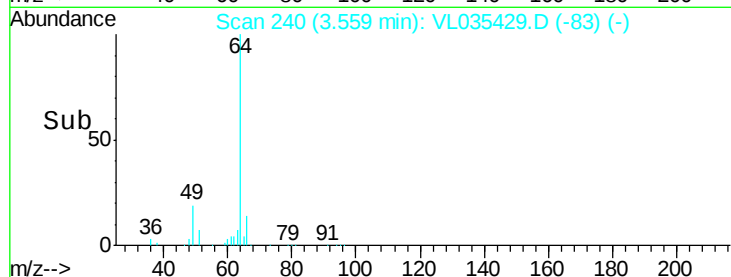
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.712 ppbv

RT: 3.19 min Scan# 125

Delta R.T. 0.01 min

Lab File: VL035429.D

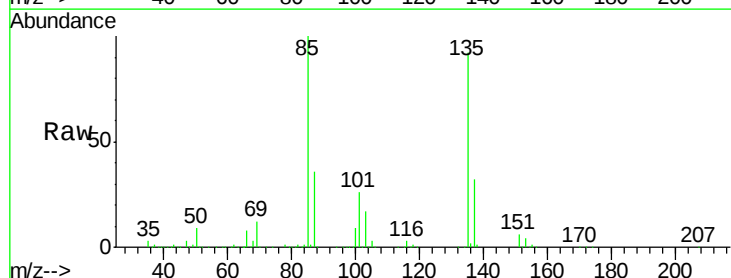
Acq: 17 Aug 2020 22:26

Tgt Ion: 85 Resp: 2233165

Ion Ratio Lower Upper

85 100

135 93.4 48.6 72.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.19

2000000

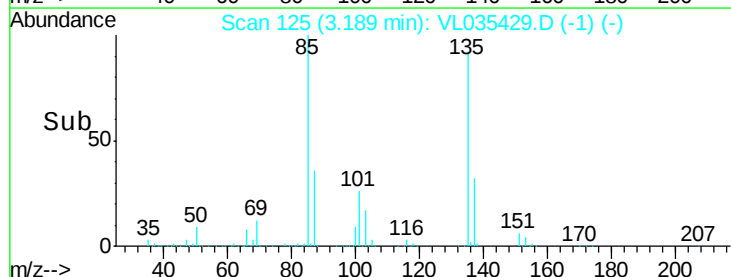
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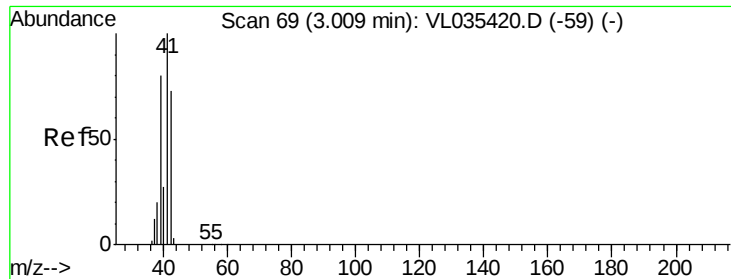
1000000

500000

0

Time-->





#9

Propene

Concen: 9.048 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

Tot Ion: 41 Resp: 492523

Ion Ratio Lower Upper

41 100

42 69.9 55.5 83.3

Instrument :

MSVOA\_L

ClientSampleId :

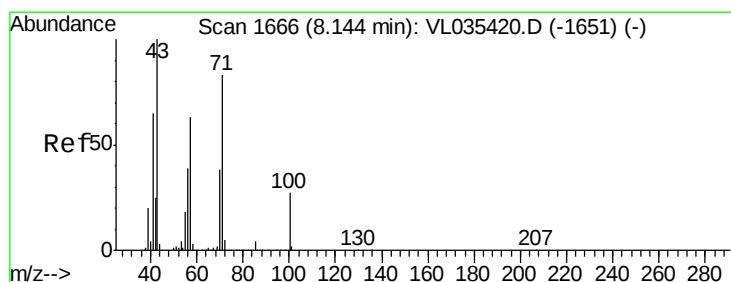
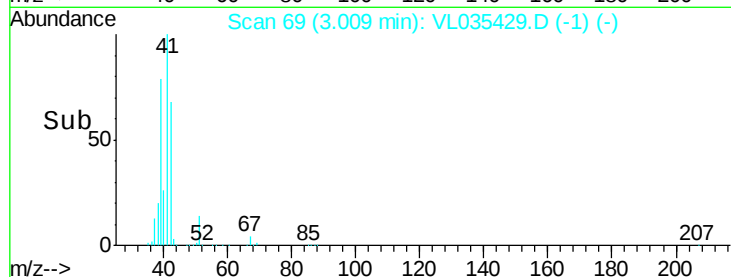
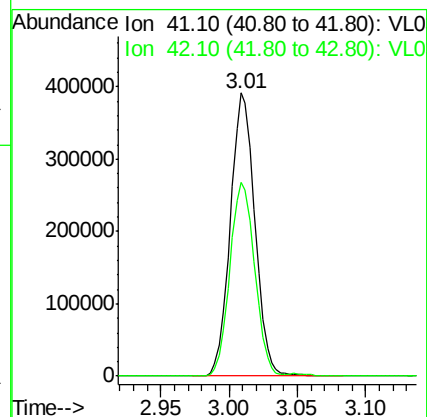
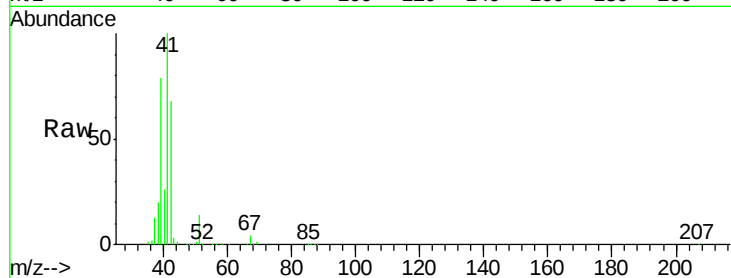
VL0817ABS01

Manual Integrations

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#10

Heptane

Concen: 9.230 ppbv

RT: 8.14 min Scan# 1666

Delta R.T. 0.01 min

Lab File: VL035429.D

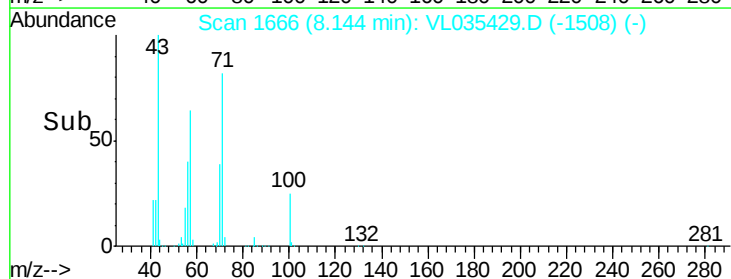
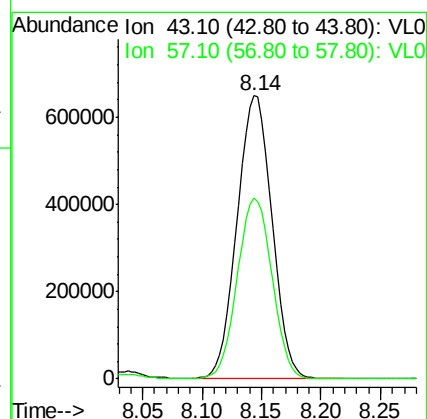
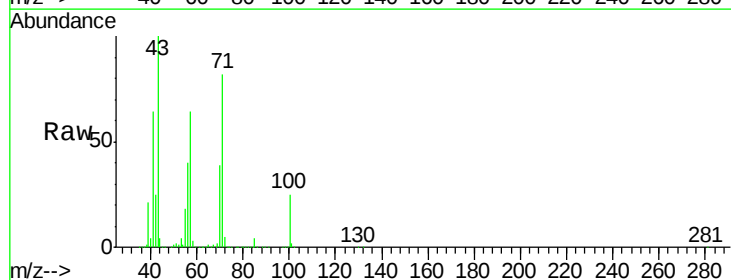
Acq: 17 Aug 2020 22:26

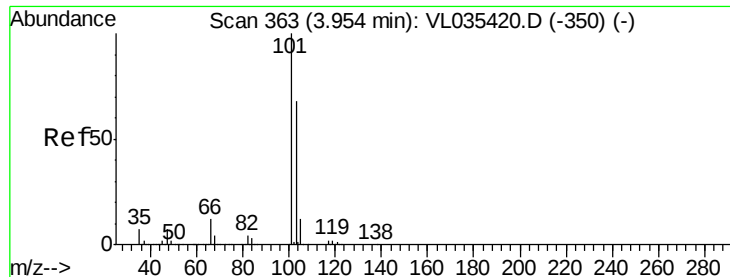
Tgt Ion: 43 Resp: 1317389

Ion Ratio Lower Upper

43 100

57 63.8 39.8 59.6#





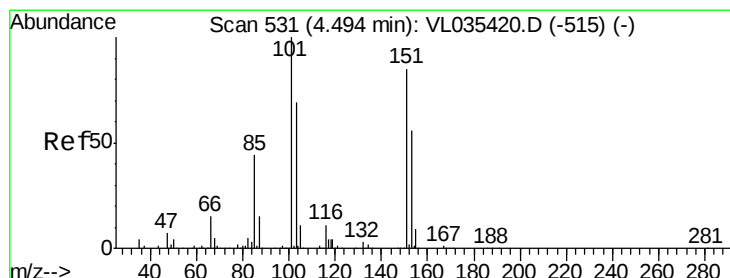
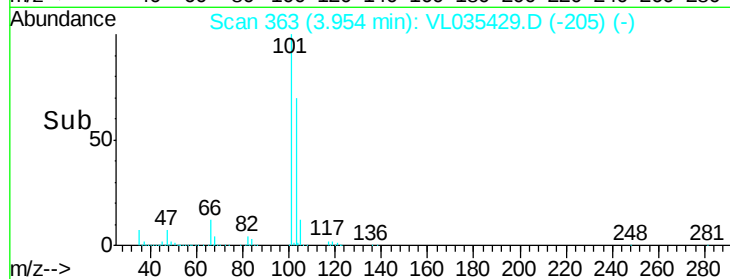
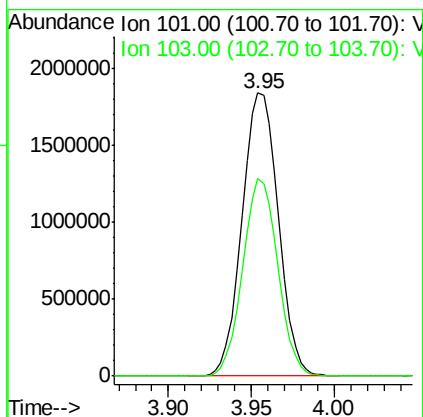
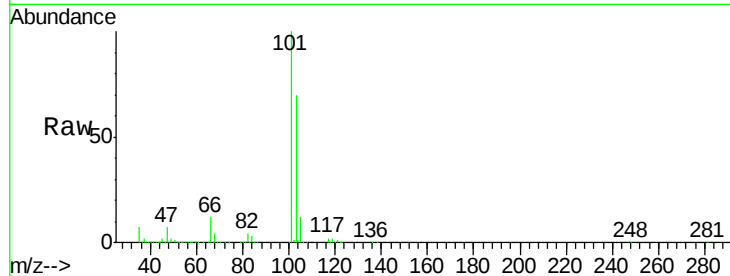
#11  
 Trichlorofluoromethane  
 Concen: 8.918 ppbv  
 RT: 3.95 min Scan# 363  
 Delta R.T. 0.01 min  
 Lab File: VL035429.D  
 Acq: 17 Aug 2020 22:26

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0817ABS01

Tot Ion:101 Resp: 2801368  
 Ion Ratio Lower Upper  
 101 100  
 103 69.9 52.6 78.8

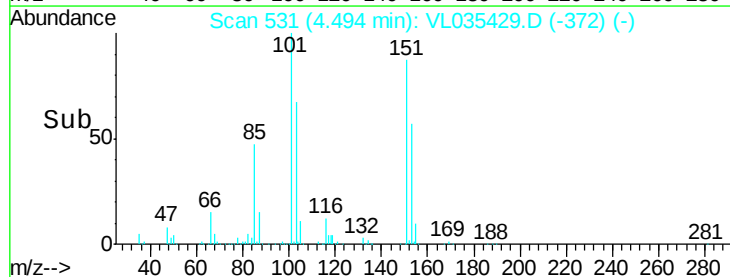
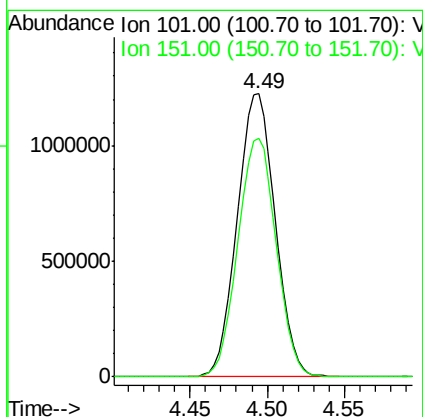
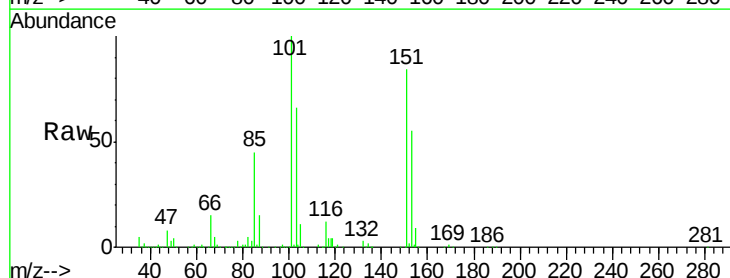
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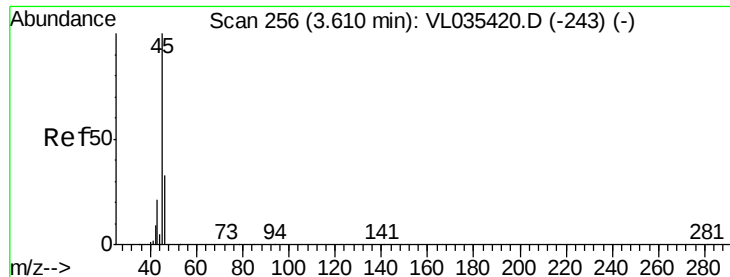
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#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 8.941 ppbv  
 RT: 4.49 min Scan# 531  
 Delta R.T. 0.01 min  
 Lab File: VL035429.D  
 Acq: 17 Aug 2020 22:26

Tgt Ion:101 Resp: 2092856  
 Ion Ratio Lower Upper  
 101 100  
 151 85.3 53.6 80.4#





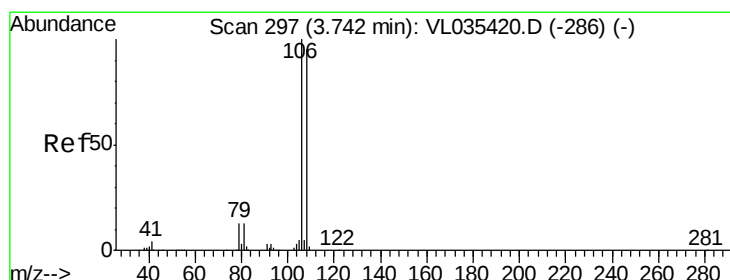
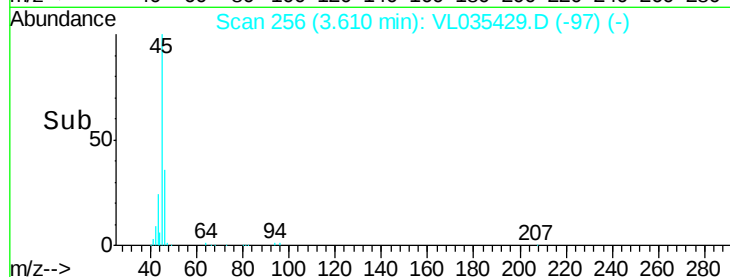
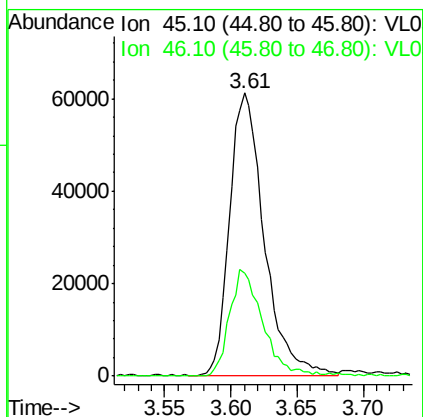
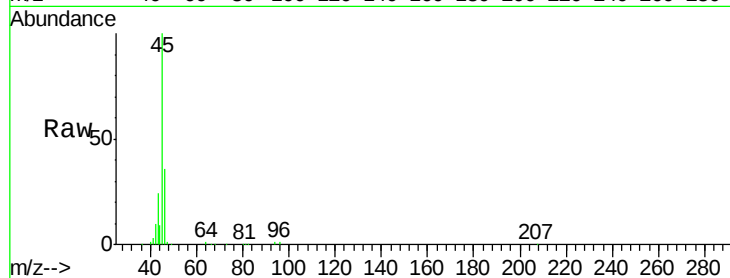
#13  
Ethanol  
Concen: 5.597 ppbv  
RT: 3.61 min Scan# 256  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0817ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 46      | 36.6  | 14.2  | 56.6  |

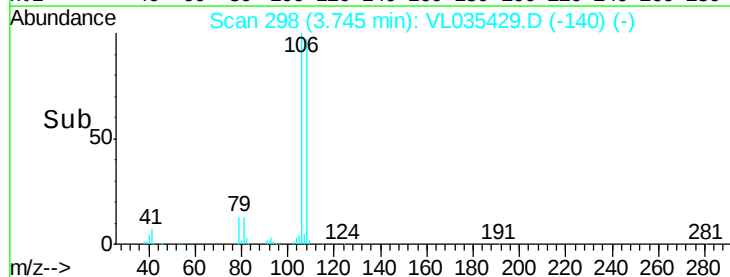
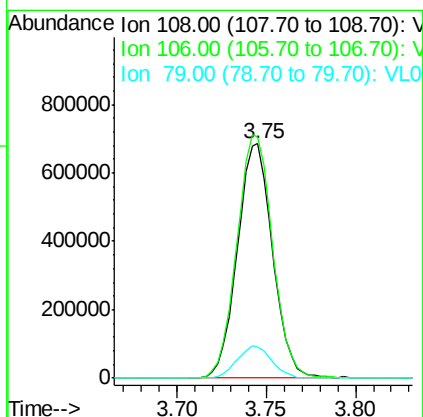
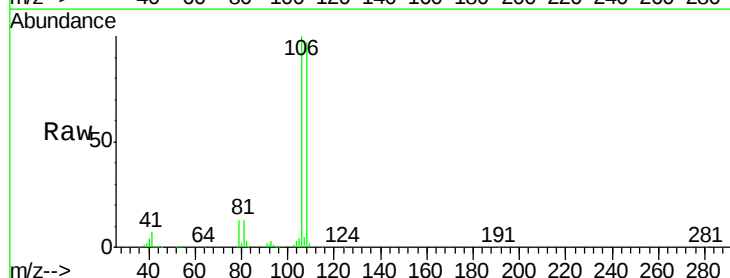
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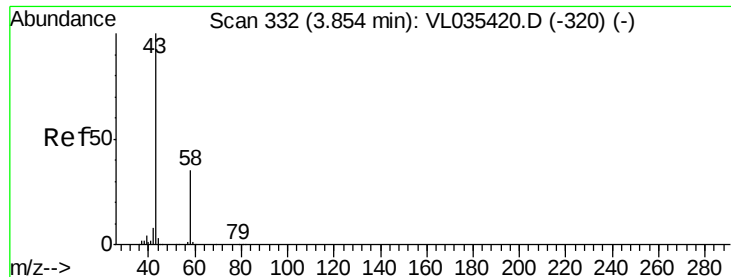
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#14  
Bromoethene  
Concen: 9.161 ppbv  
RT: 3.75 min Scan# 298  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 108     | 100   |       |       |
| 106     | 105.5 | 86.7  | 130.1 |
| 79      | 13.8  | 16.8  | 25.2  |





#15

Acetone

Concen: 7.843 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0817ABS01

Tot Ion: 43 Resp: 975001

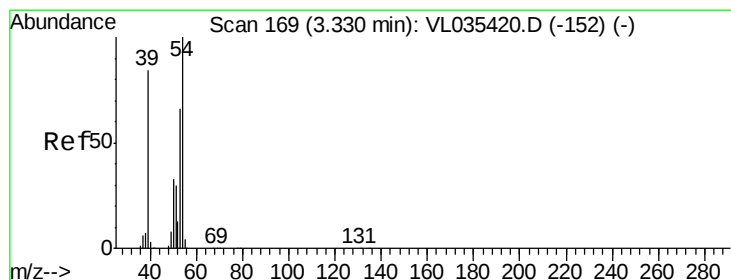
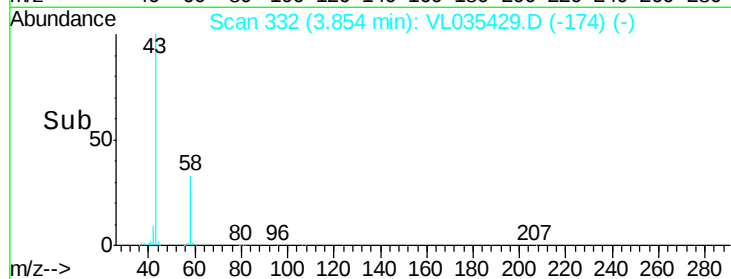
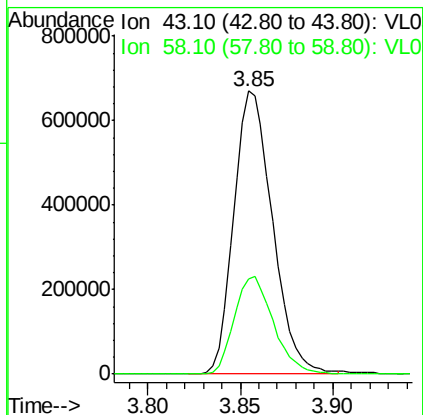
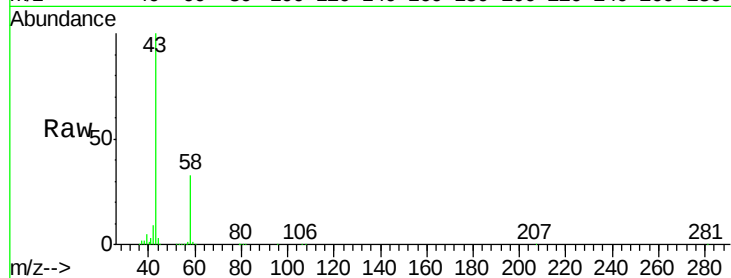
Ion Ratio Lower Upper

43 100

58 35.1 21.0 31.6#

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#16

1,3-Butadiene

Concen: 9.305 ppbv

RT: 3.33 min Scan# 169

Delta R.T. 0.01 min

Lab File: VL035429.D

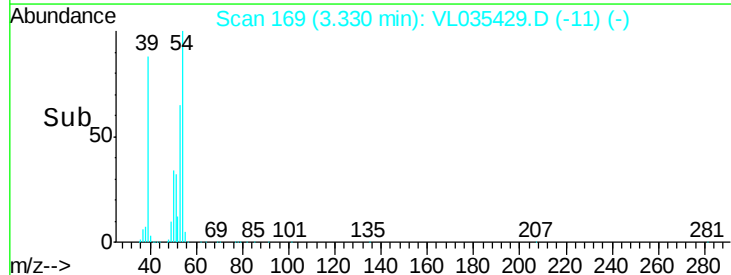
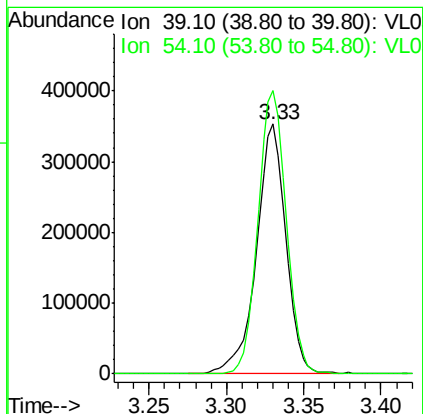
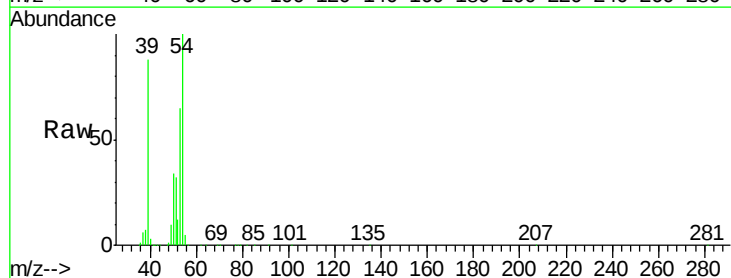
Acq: 17 Aug 2020 22:26

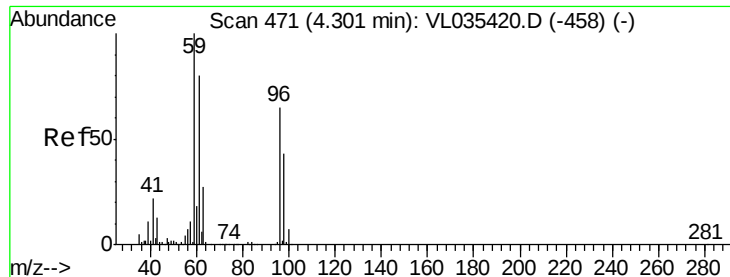
Tgt Ion: 39 Resp: 469113

Ion Ratio Lower Upper

39 100

54 109.8 64.4 96.6#





#17

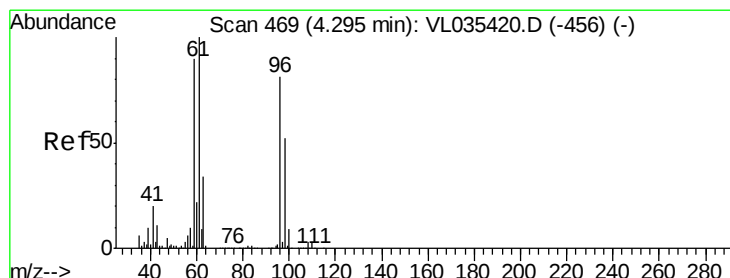
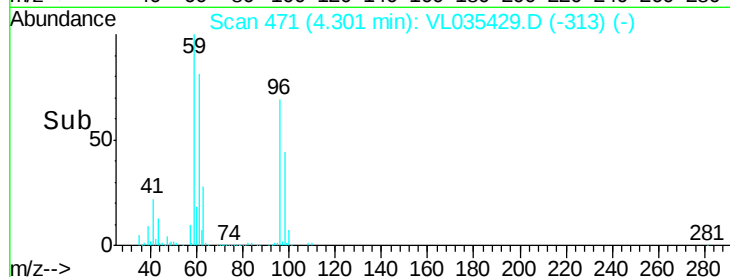
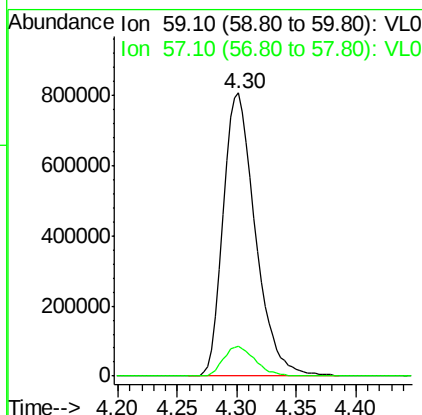
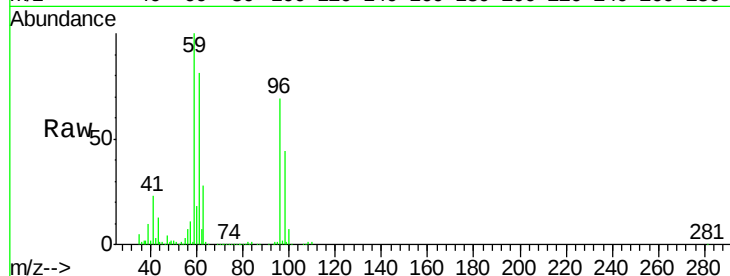
tert-Butyl alcohol  
Concen: 9.449 ppbv  
RT: 4.30 min Scan# 471  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0817ABS01

Tot Ion: 59 Resp: 1518245  
Ion Ratio Lower Upper  
59 100  
57 10.5 8.9 13.3

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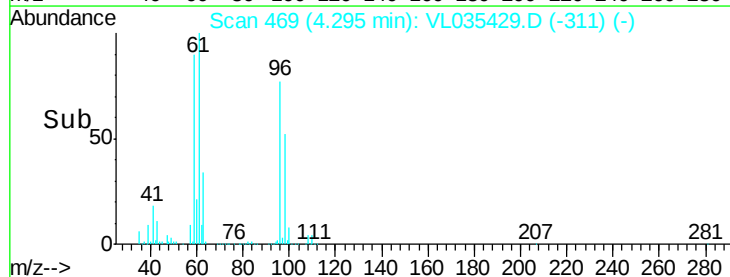
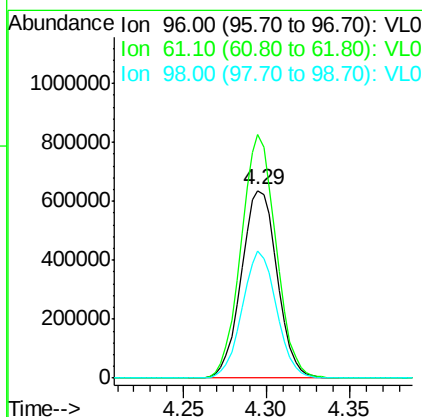
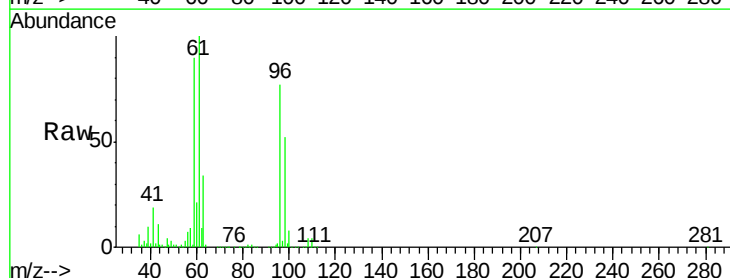
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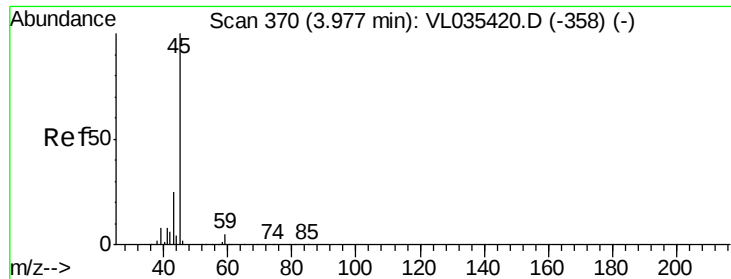


#18

1,1-Dichloroethene  
Concen: 9.243 ppbv  
RT: 4.29 min Scan# 469  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

Tgt Ion: 96 Resp: 955349  
Ion Ratio Lower Upper  
96 100  
61 130.0 161.8 242.6#  
98 68.0 49.3 73.9





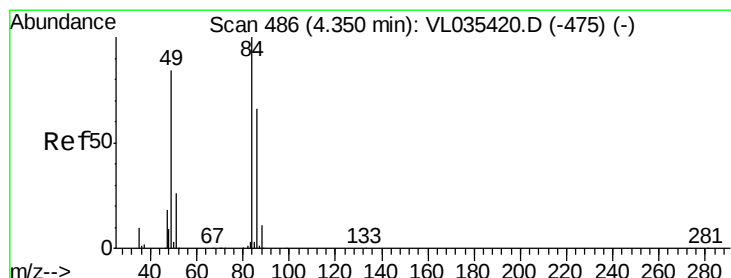
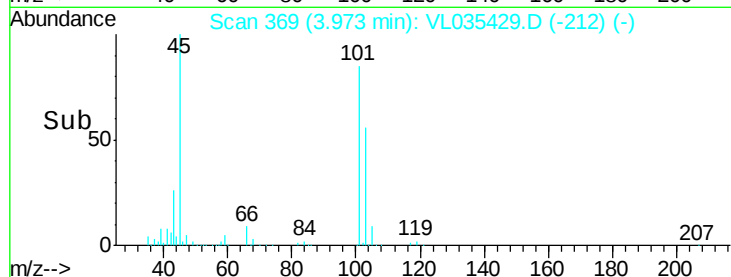
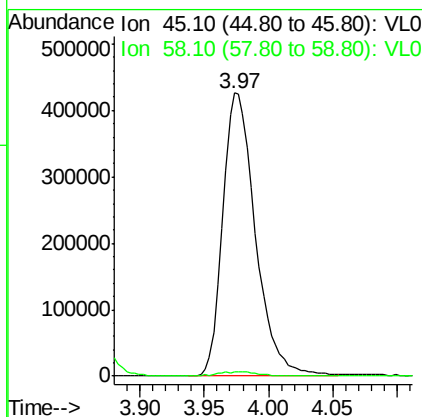
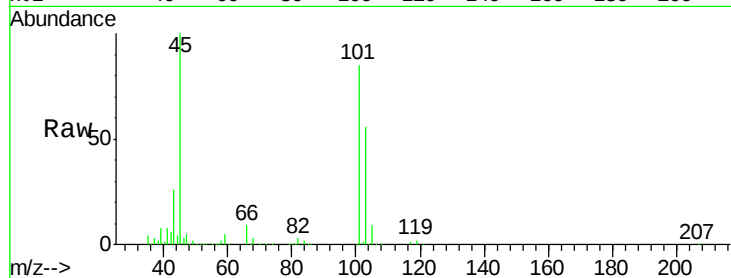
#19  
Isopropyl Alcohol  
Concen: 8.769 ppbv  
RT: 3.97 min Scan# 369  
Delta R.T. 0.00 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0817ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 58      | 2.0   | 1.0   | 1.6#  |

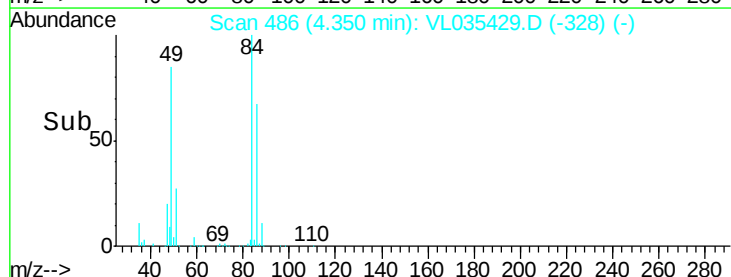
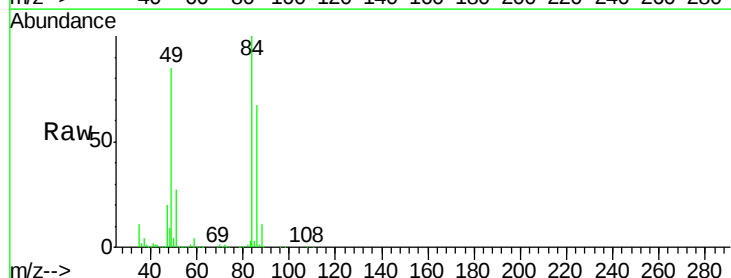
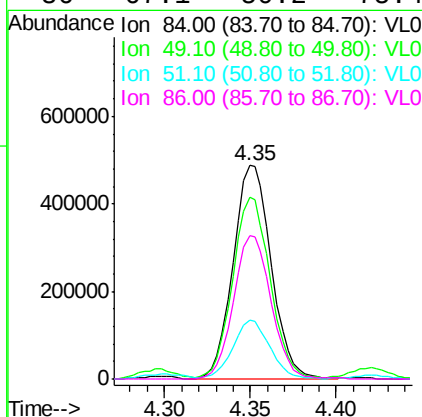
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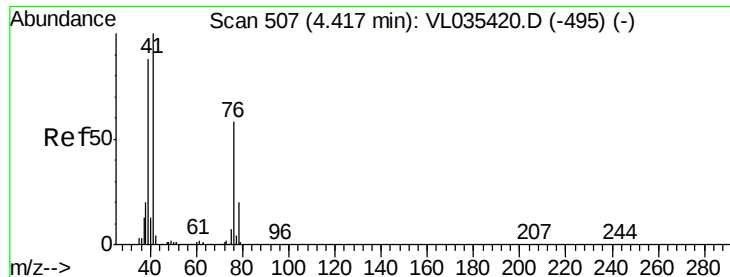
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#20  
Methylene Chloride  
Concen: 7.460 ppbv  
RT: 4.35 min Scan# 486  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 84      | 100   |       |        |
| 49      | 84.3  | 118.6 | 177.8# |
| 51      | 27.1  | 36.4  | 54.6#  |
| 86      | 67.1  | 50.2  | 75.4   |





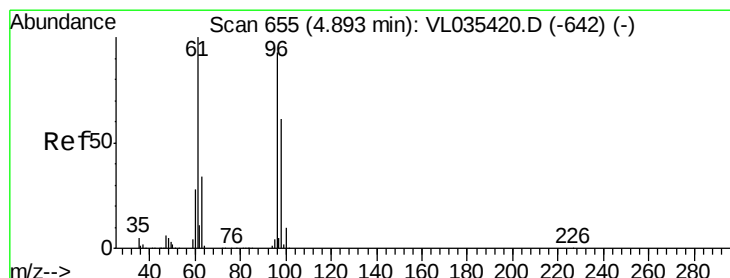
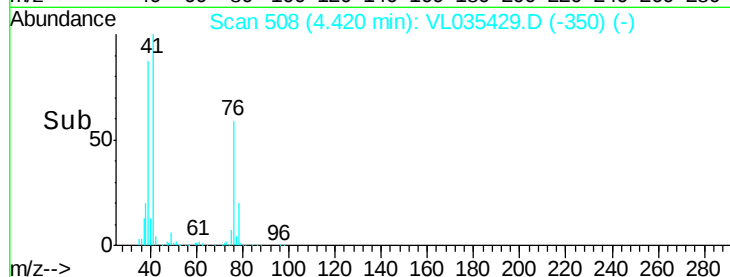
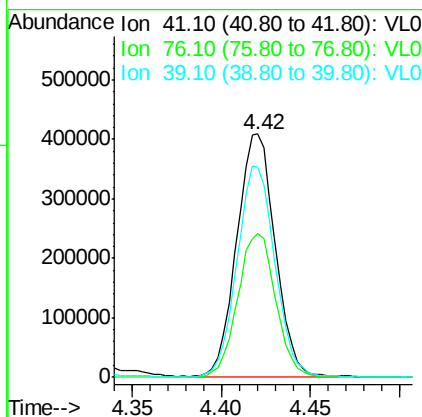
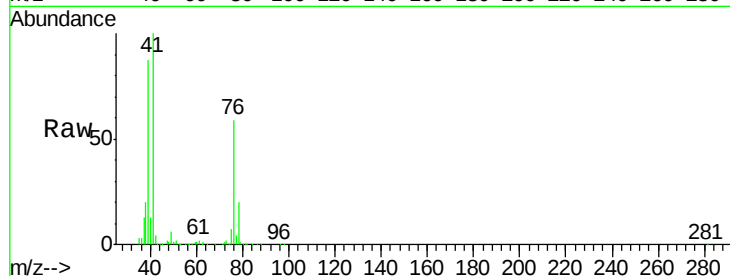
#21  
Allvl Chloride  
Concen: 9.704 ppbv  
RT: 4.42 min Scan# 508  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0817ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 76      | 58.9  | 22.8  | 34.2# |
| 39      | 86.5  | 66.2  | 99.2  |

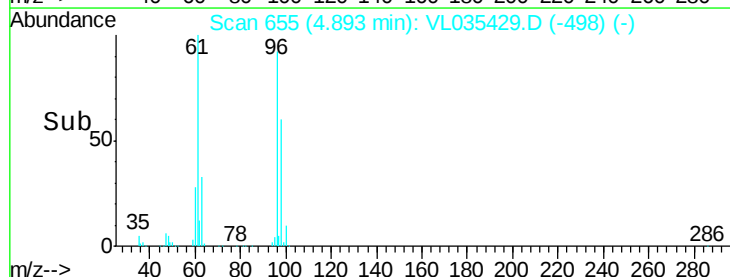
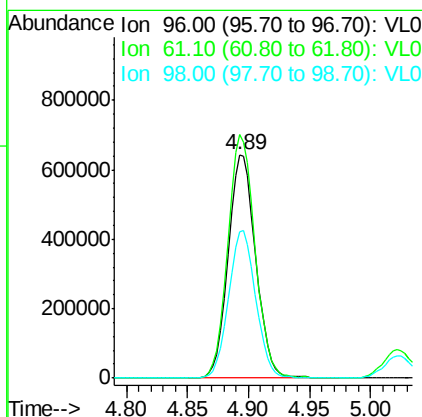
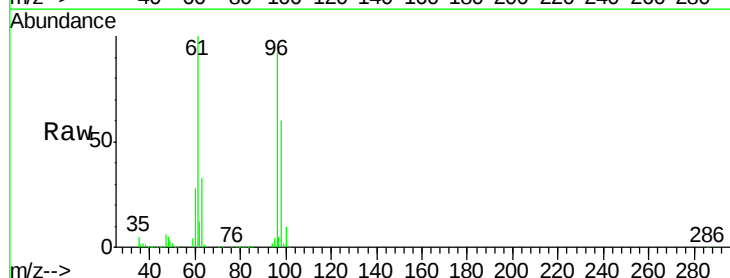
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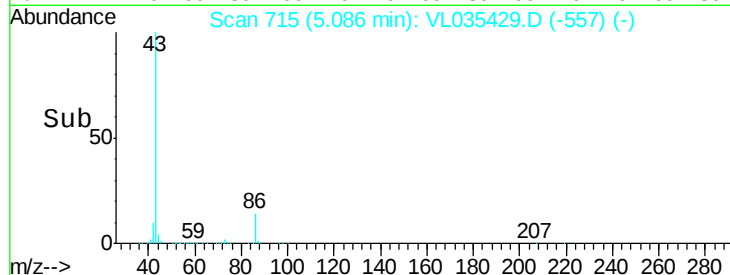
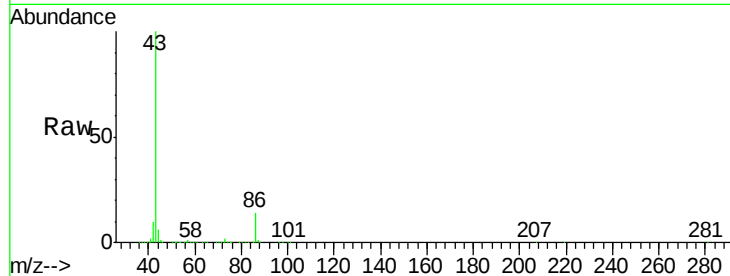
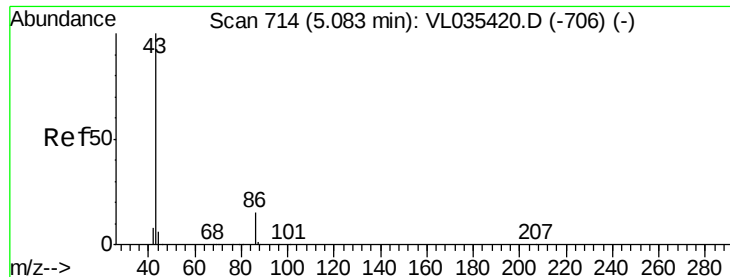
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#22  
trans-1,2-Dichloroethene  
Concen: 9.215 ppbv  
RT: 4.89 min Scan# 655  
Delta R.T. 0.00 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 96      | 100   |       |        |
| 61      | 108.8 | 142.2 | 213.2# |
| 98      | 65.3  | 51.8  | 77.8   |





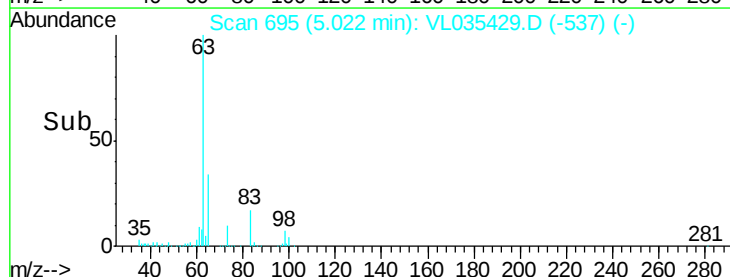
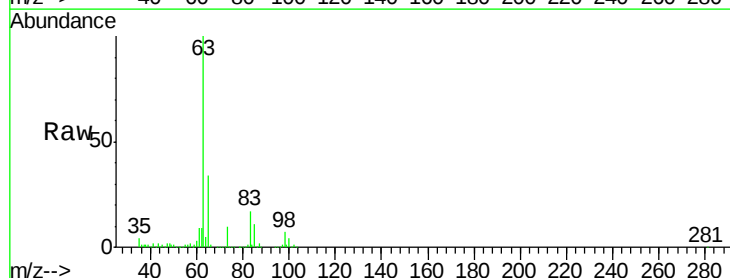
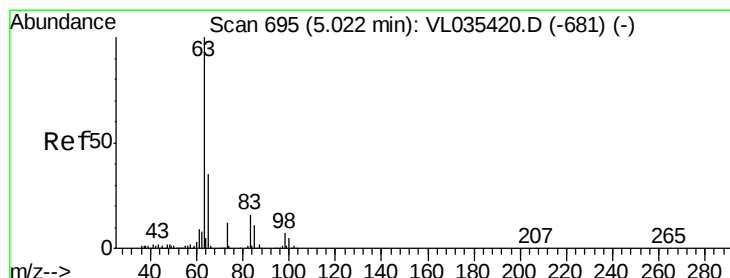
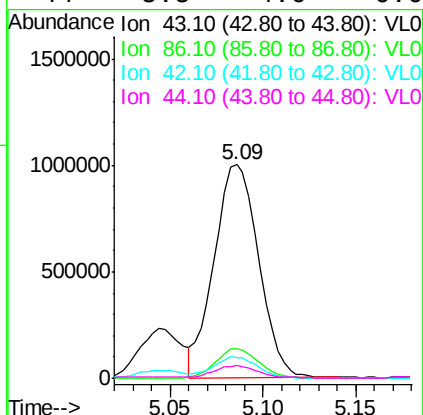
#23  
Vinvl Acetate  
Concen: 9.412 ppbv  
RT: 5.09 min Scan# 715  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 86      | 13.8  | 6.5   | 9.7#  |
| 42      | 9.6   | 8.3   | 12.5  |
| 44      | 5.5   | 4.0   | 6.0   |

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0817ABS01

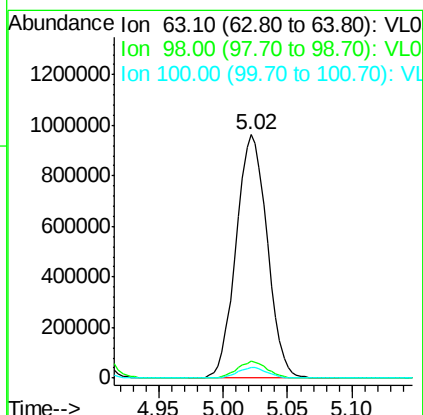
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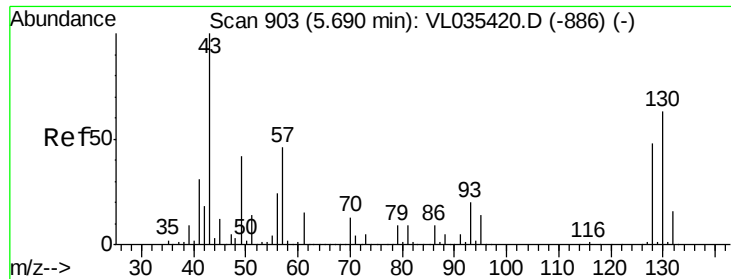
MMDadoda  
8/20/2020 11:05:55 AM



#24  
1,1-Dichloroethane  
Concen: 9.077 ppbv  
RT: 5.02 min Scan# 695  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 98      | 6.8   | 2.1   | 6.5#  |
| 100     | 4.4   | 1.3   | 3.8#  |





#25

Ethyl Acetate

Concen: 8.709 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0817ABS01

Tot Ion: 43 Resp: 2106951

Ion Ratio Lower Upper

43 100

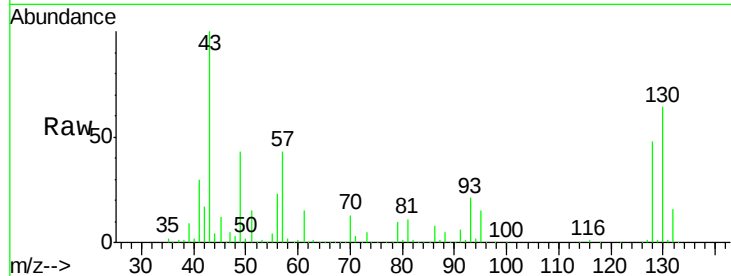
45 10.8 8.3 12.5

61 13.2 7.6 11.4#

70 11.7 6.0 9.0#

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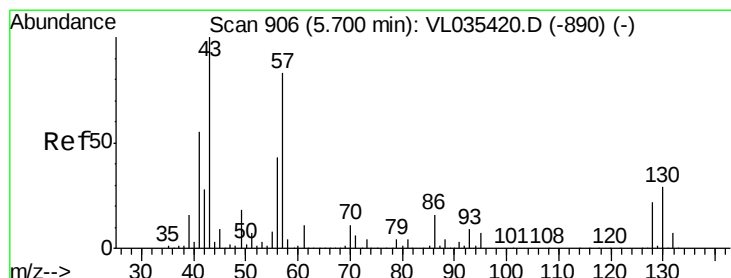
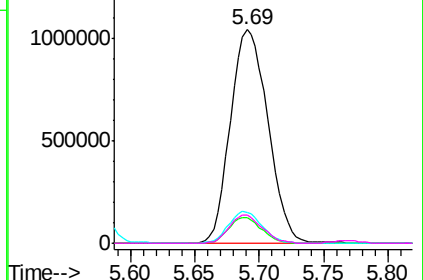
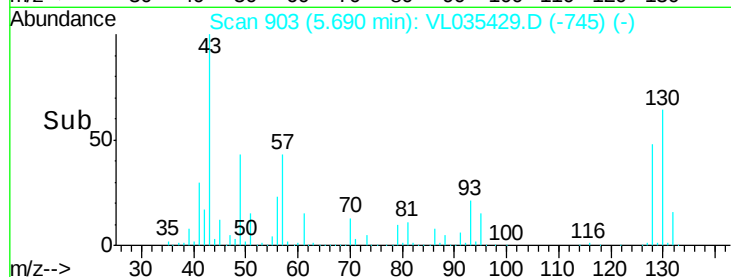


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 8.821 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

Tgt Ion: 57 Resp: 1204276

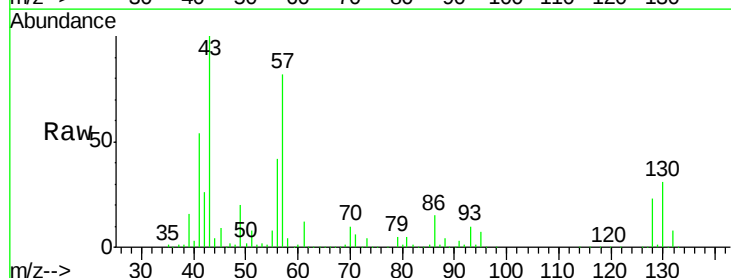
Ion Ratio Lower Upper

57 100

41 70.2 75.5 113.3#

43 175.5 181.7 272.5#

56 51.5 42.4 63.6

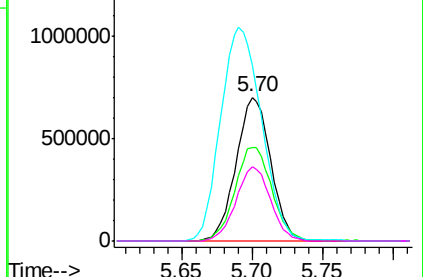
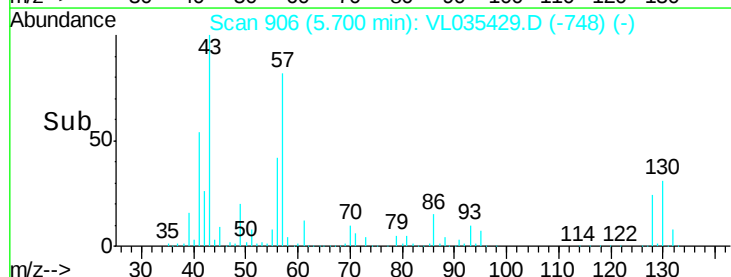


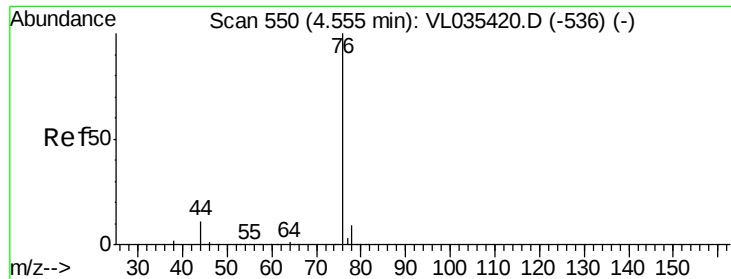
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





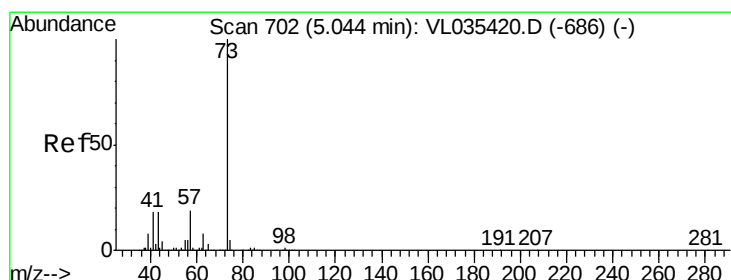
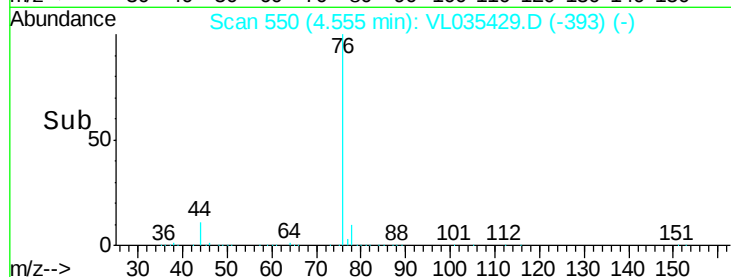
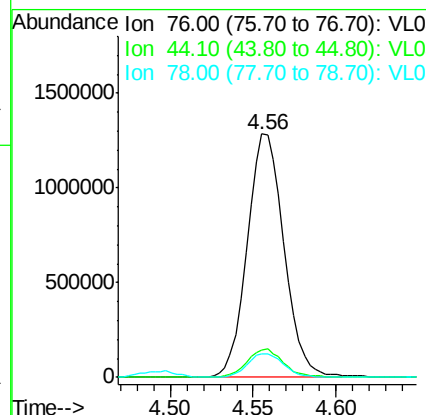
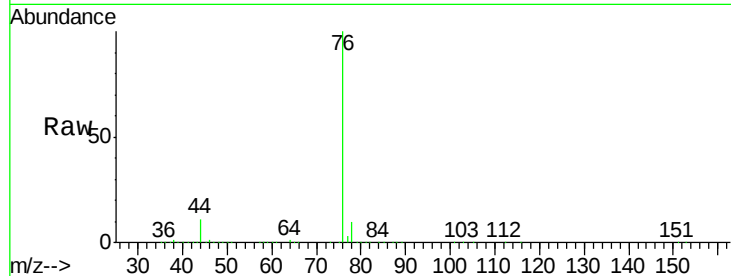
#27  
Carbon Disulfide  
Concen: 10.045 ppbv  
RT: 4.56 min Scan# 550  
Delta R.T. 0.00 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0817ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 44      | 11.5  | 16.8  | 25.2# |
| 78      | 9.8   | 7.3   | 10.9  |

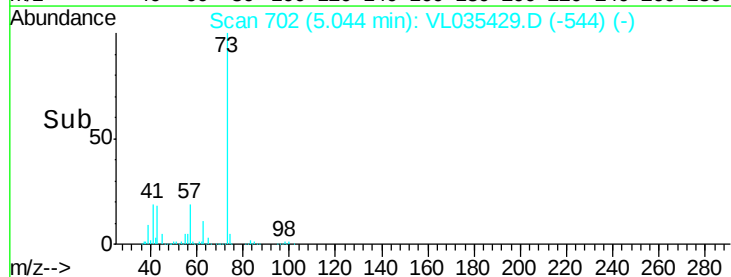
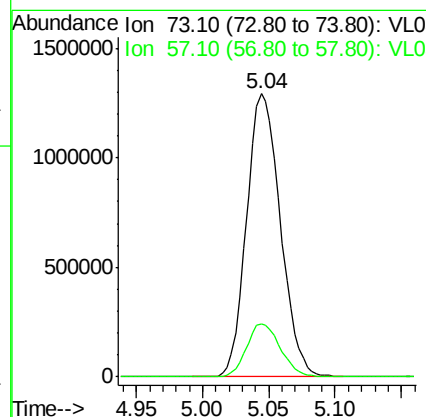
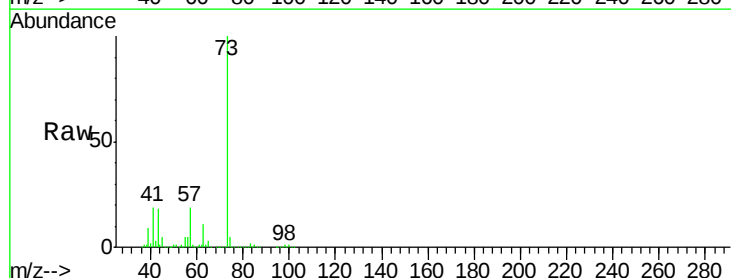
Manual Integrations  
APPROVED

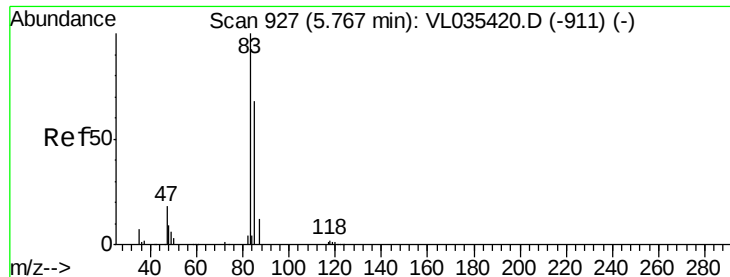
MMDadoda  
8/20/2020 11:05:55 AM



#28  
Methyl tert-Butyl Ether  
Concen: 9.186 ppbv  
RT: 5.04 min Scan# 702  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 57      | 18.8  | 18.3  | 27.5  |





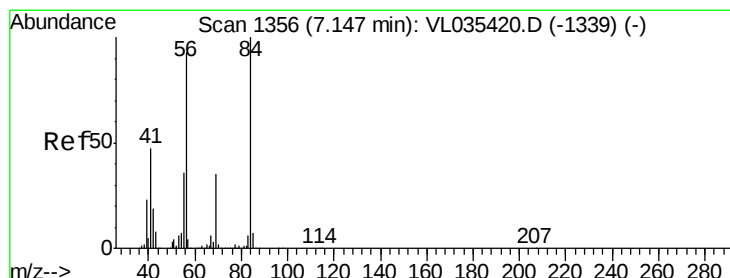
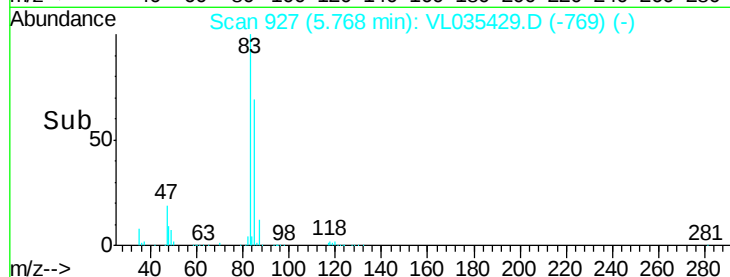
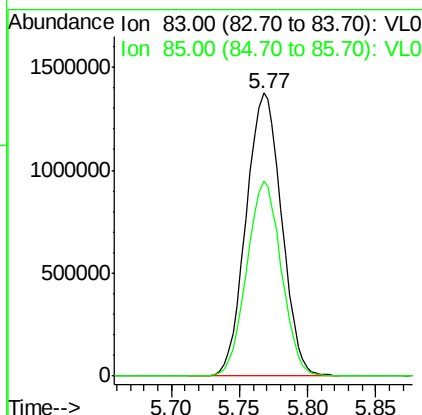
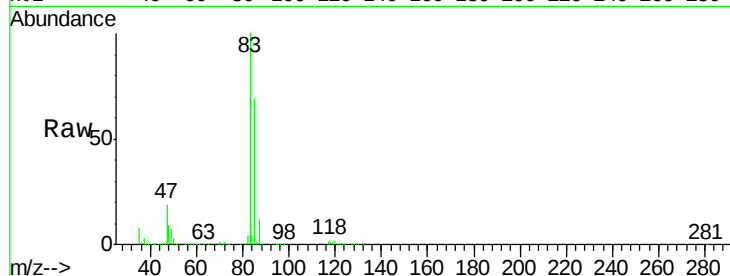
#29  
Chloroform  
Concen: 9.066 ppbv  
RT: 5.77 min Scan# 927  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0817ABS01

Tot Ion: 83 Resp: 2486918  
Ion Ratio Lower Upper  
83 100  
85 68.8 52.7 79.1

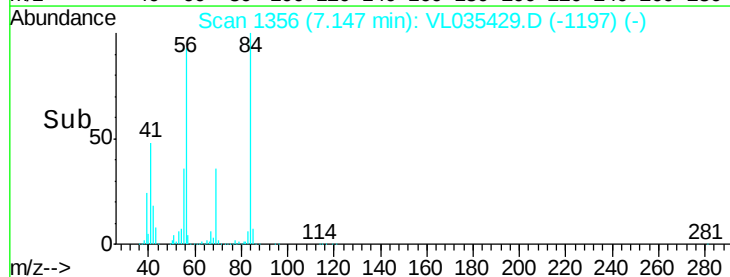
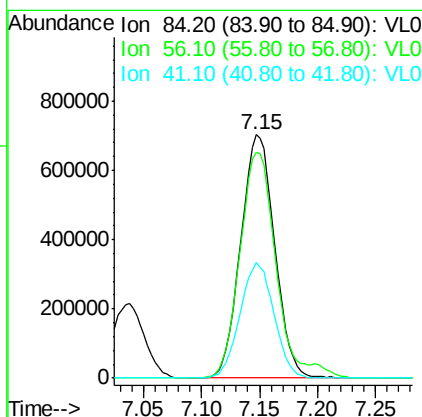
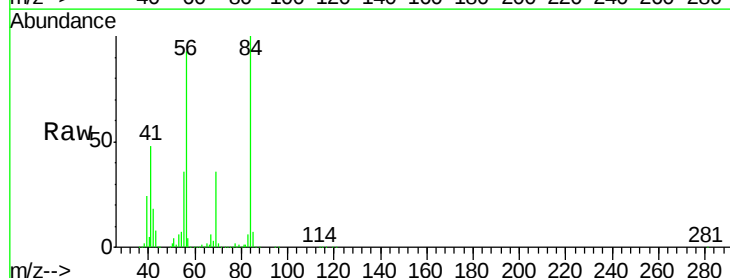
Manual Integrations  
APPROVED

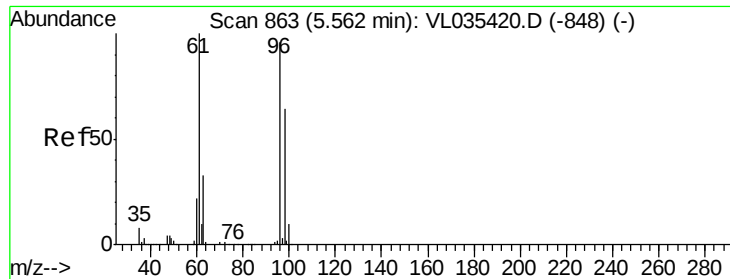
MMDadoda  
8/20/2020 11:05:55 AM



#30  
Cyclohexane  
Concen: 9.464 ppbv  
RT: 7.15 min Scan# 1356  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

Tgt Ion: 84 Resp: 1433455  
Ion Ratio Lower Upper  
84 100  
56 99.3 114.9 172.3#  
41 47.4 72.3 108.5#





#31

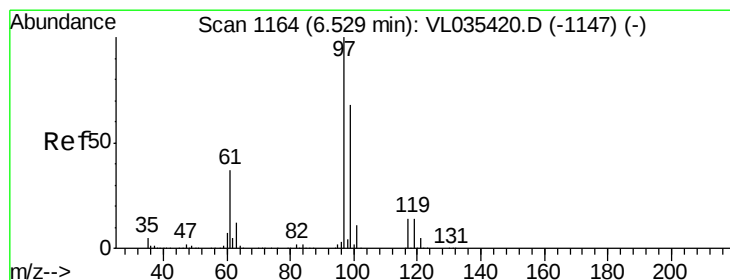
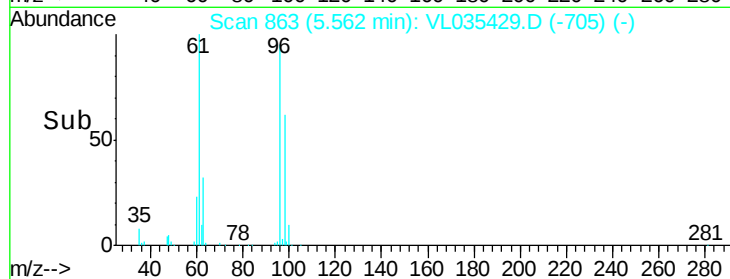
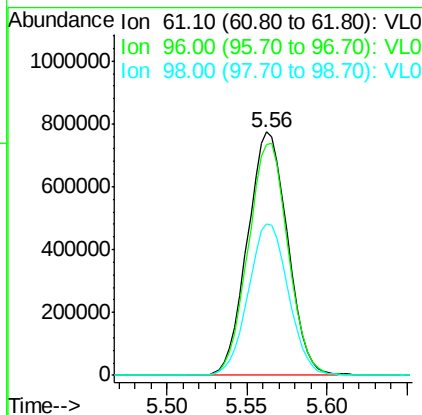
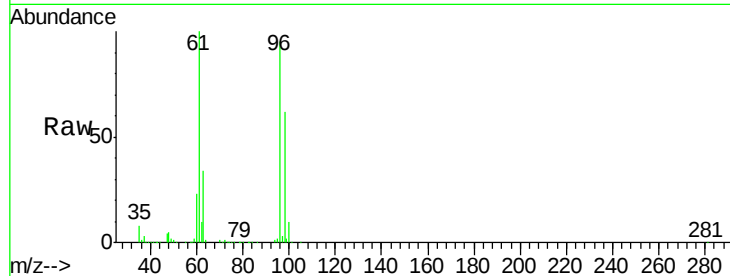
cis-1,2-Dichloroethene  
 Concen: 9.282 ppbv  
 RT: 5.56 min Scan# 863  
 Delta R.T. 0.01 min  
 Lab File: VL035429.D  
 Acq: 17 Aug 2020 22:26

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0817ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 94.8  | 51.4  | 77.0# |
| 98      | 62.0  | 32.9  | 49.3# |

Manual Integrations  
 APPROVED

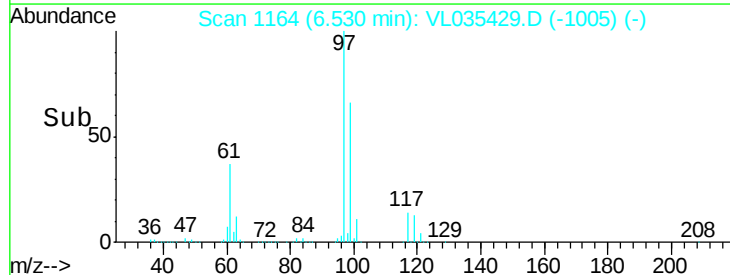
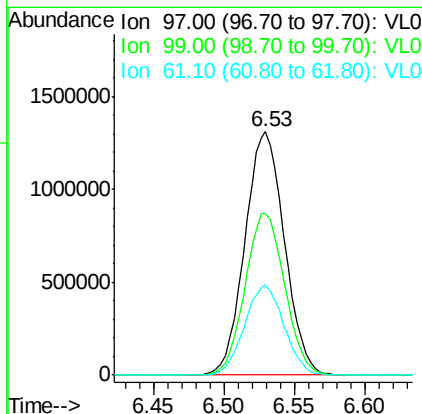
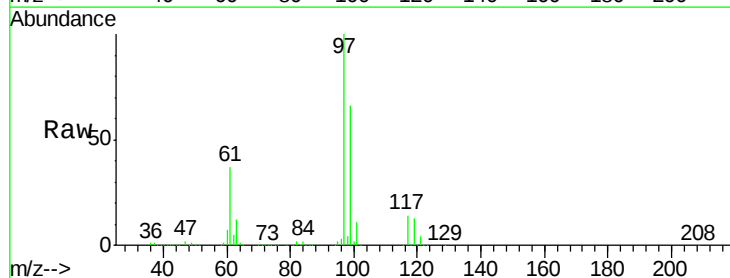
MMDadoda  
 8/20/2020 11:05:55 AM

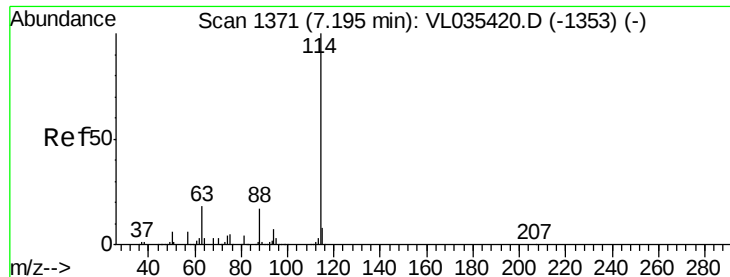


#32

1,1,1-Trichloroethane  
 Concen: 10.001 ppbv  
 RT: 6.53 min Scan# 1164  
 Delta R.T. 0.01 min  
 Lab File: VL035429.D  
 Acq: 17 Aug 2020 22:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 66.8  | 51.4  | 77.0  |
| 61      | 37.0  | 41.0  | 61.6# |





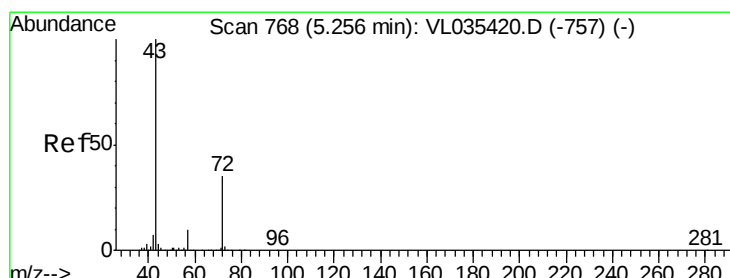
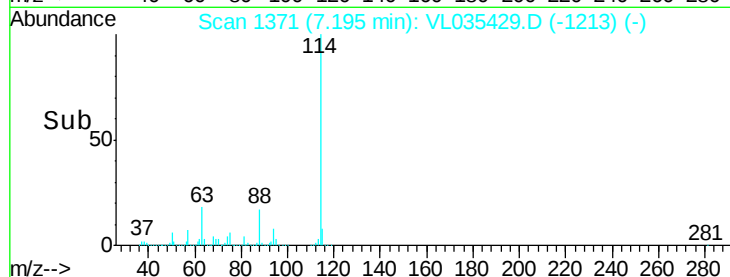
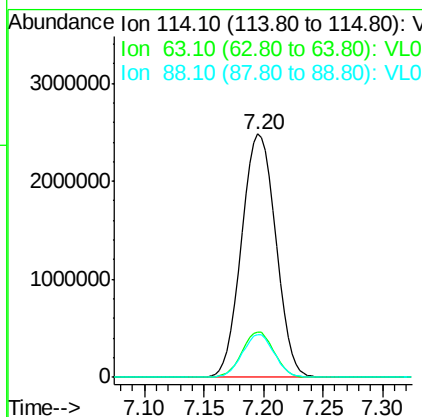
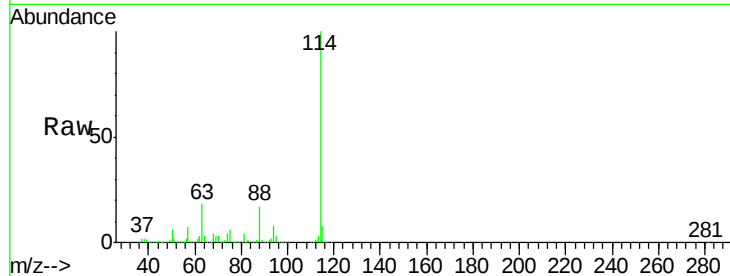
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.20 min Scan# 1371  
 Delta R.T. 0.01 min  
 Lab File: VL035429.D  
 Acq: 17 Aug 2020 22:26

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0817ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 17.8  | 23.1  | 34.7# |
| 88      | 16.6  | 15.9  | 23.9  |

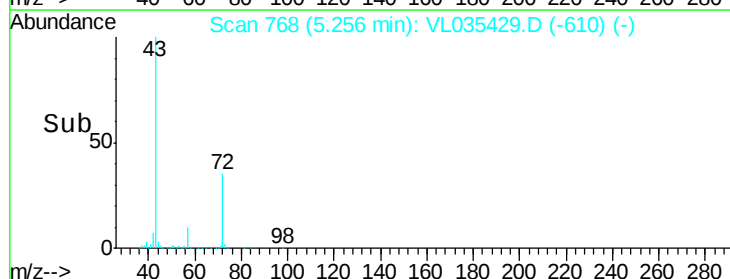
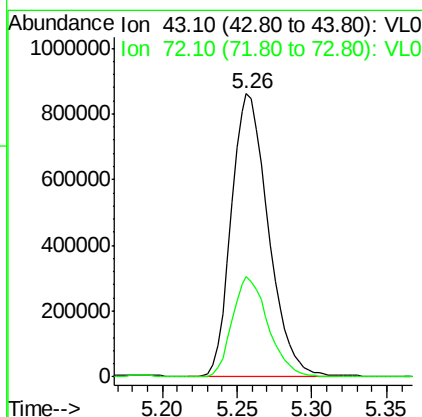
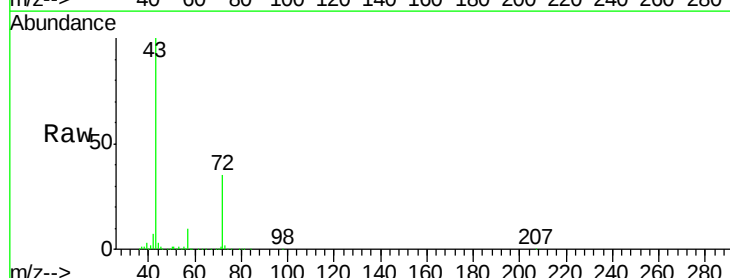
Manual Integrations  
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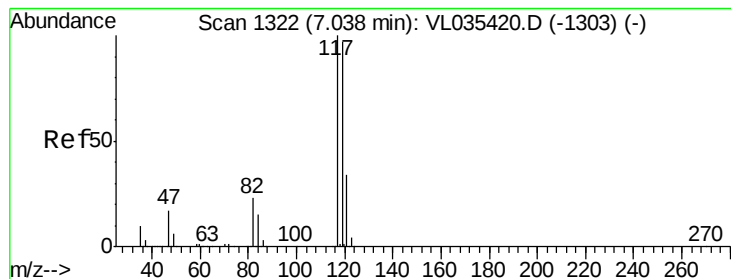
MMDadoda  
 8/20/2020 11:05:55 AM



#34  
 2-Butanone  
 Concen: 8.942 ppbv  
 RT: 5.26 min Scan# 768  
 Delta R.T. 0.01 min  
 Lab File: VL035429.D  
 Acq: 17 Aug 2020 22:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 34.5  | 17.6  | 26.4# |





#35

Carbon Tetrachloride

Concen: 10.480 ppbv

RT: 7.04 min Scan# 1322

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0817ABS01

Tot Ion:117 Resp: 2762933

Ion Ratio Lower Upper

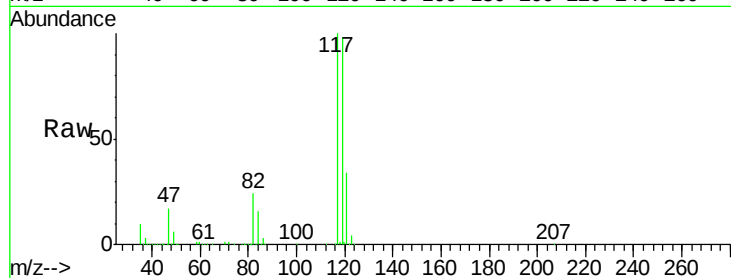
117 100

119 97.9 76.1 114.1

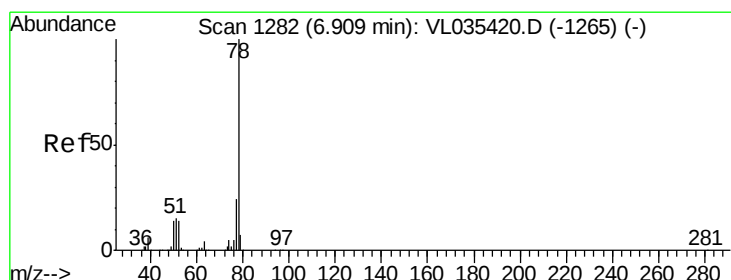
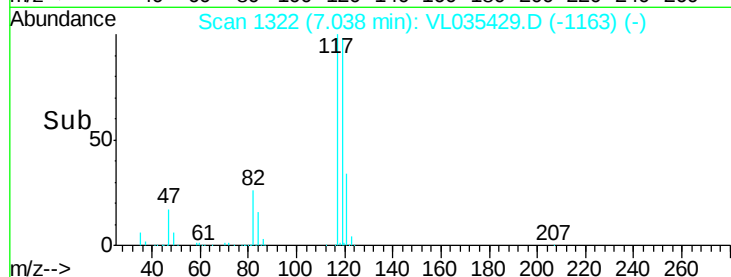
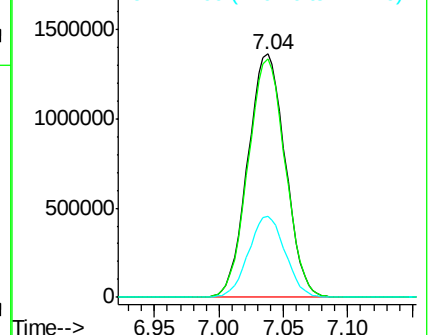
121 33.5 25.5 38.3

Manual Integrations  
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MMDadoda  
8/20/2020 11:05:55 AM



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



#36

Benzene

Concen: 8.926 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

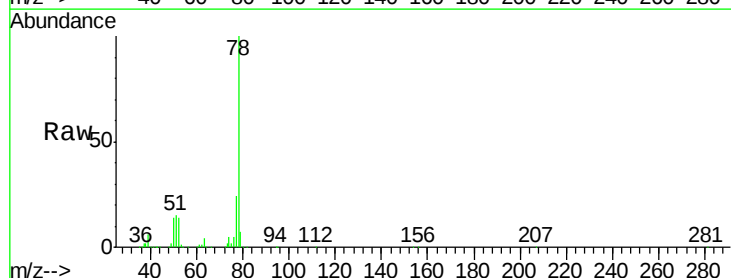
Tgt Ion: 78 Resp: 3247338

Ion Ratio Lower Upper

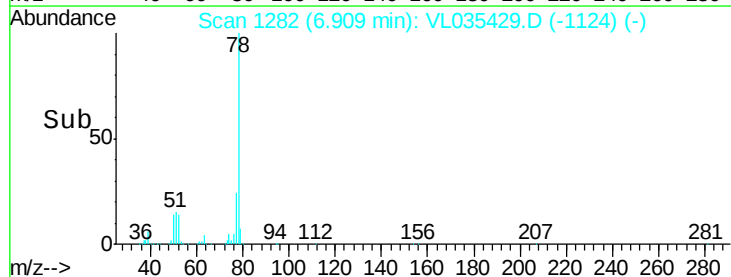
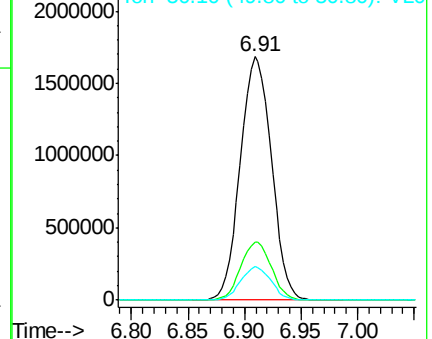
78 100

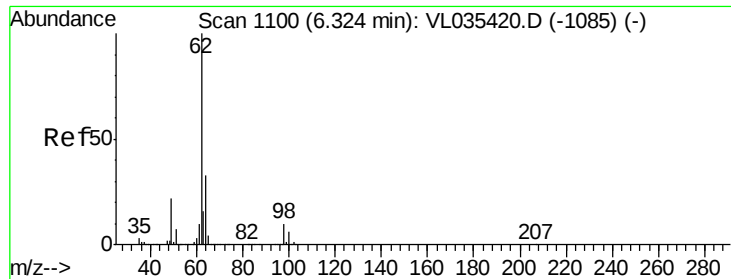
77 24.0 19.6 29.4

50 13.8 16.3 24.5#



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





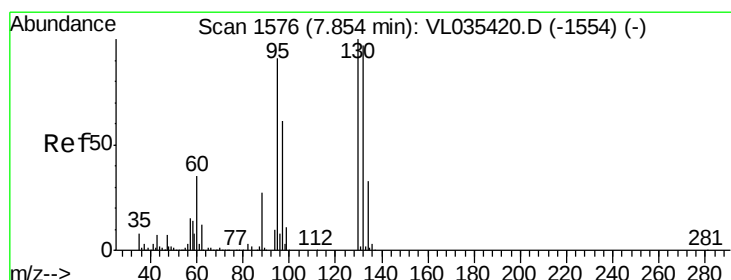
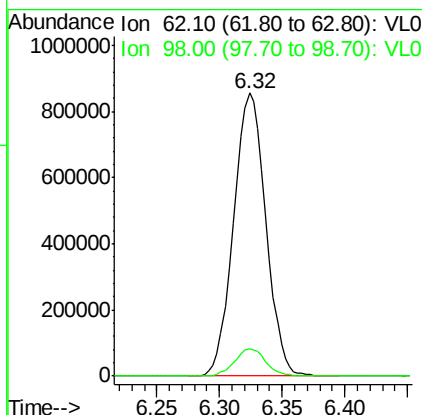
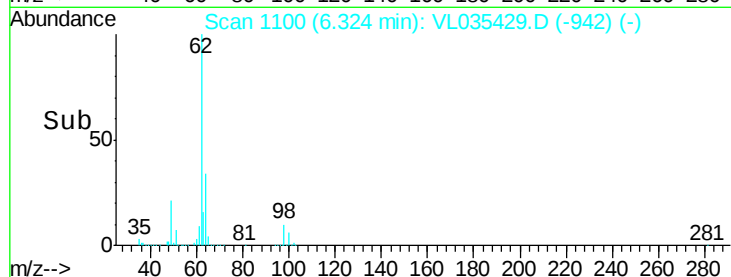
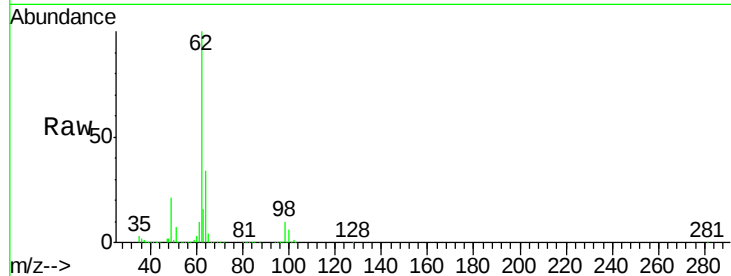
#37  
 1,2-Dichloroethane  
 Concen: 9.188 ppbv  
 RT: 6.32 min Scan# 1100  
 Delta R.T. 0.01 min  
 Lab File: VL035429.D  
 Acq: 17 Aug 2020 22:26

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0817ABS01

Tot Ion: 62 Resp: 1527719  
 Ion Ratio Lower Upper  
 62 100  
 98 9.5 4.6 7.0#

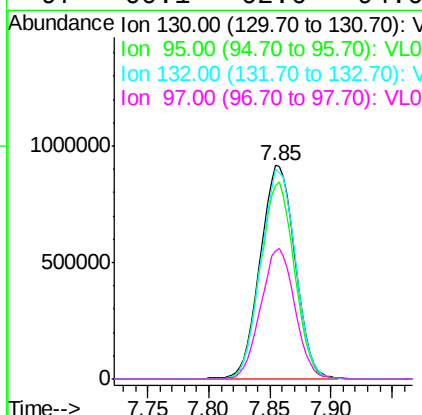
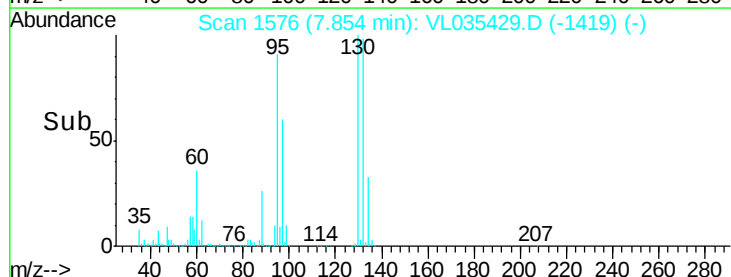
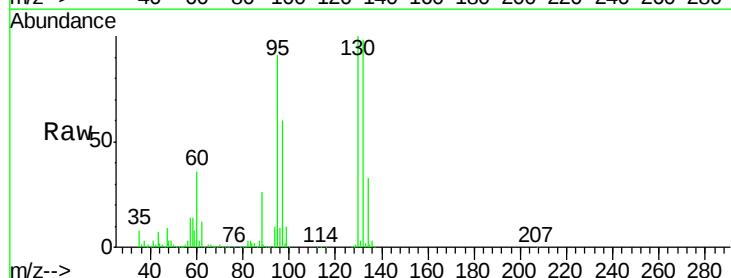
Manual Integrations  
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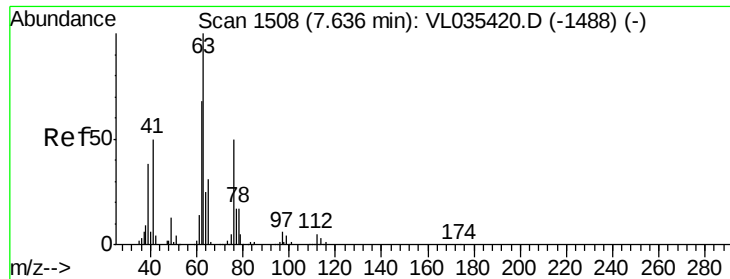
MMDadoda  
 8/20/2020 11:05:55 AM



#38  
 Trichloroethene  
 Concen: 9.018 ppbv  
 RT: 7.85 min Scan# 1576  
 Delta R.T. 0.00 min  
 Lab File: VL035429.D  
 Acq: 17 Aug 2020 22:26

Tgt Ion: 130 Resp: 1825145  
 Ion Ratio Lower Upper  
 130 100  
 95 90.7 95.8 143.8#  
 132 98.1 74.3 111.5  
 97 60.1 62.6 94.0#





#39

1,2-Dichloropropane

Concen: 9.120 ppbv

RT: 7.64 min Scan# 1508

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0817ABS01

Tot Ion: 63 Resp: 1093548

Ion Ratio Lower Upper

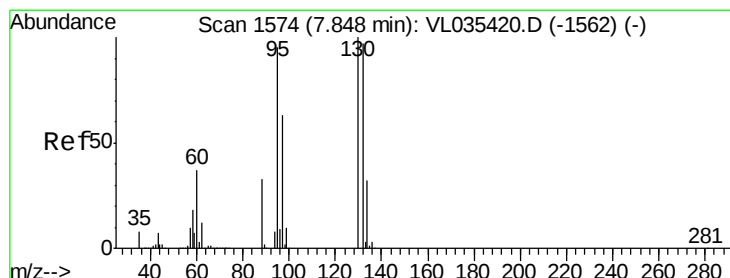
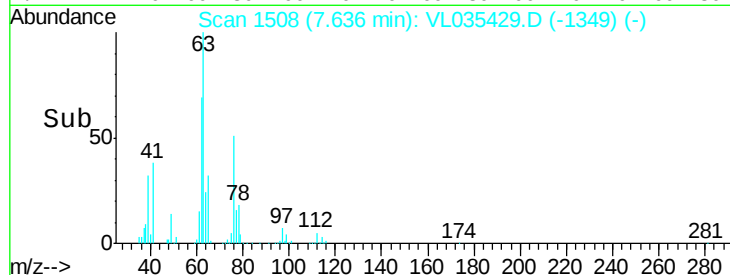
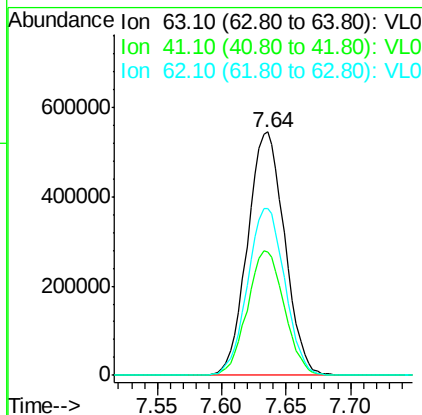
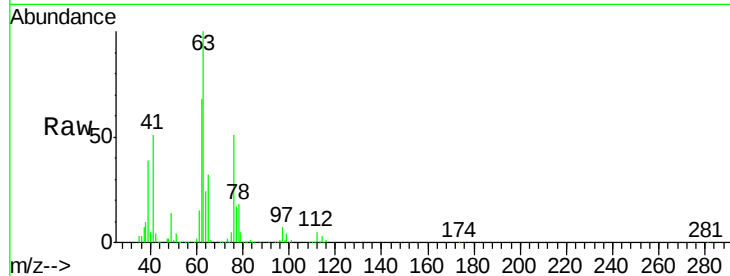
63 100

41 50.8 61.1 91.7#

62 68.5 55.3 82.9

Manual Integrations  
APPROVED

MMDadoda  
8/20/2020 11:05:55 AM



#40

1,4-Dioxane

Concen: 8.388 ppbv

RT: 7.85 min Scan# 1575

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

Tgt Ion: 88 Resp: 547908

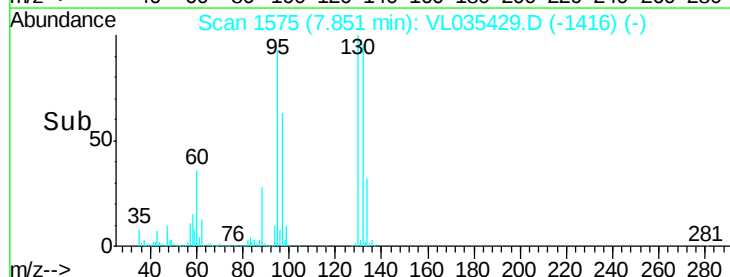
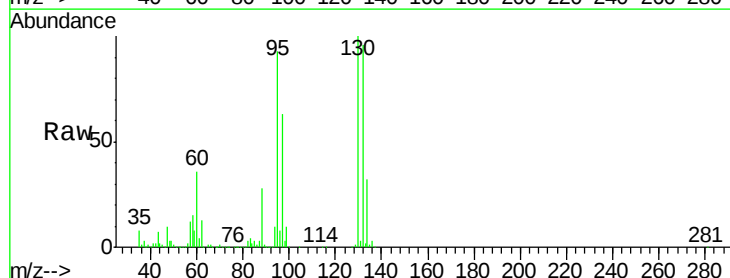
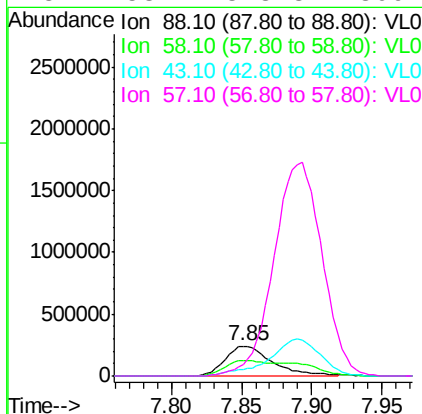
Ion Ratio Lower Upper

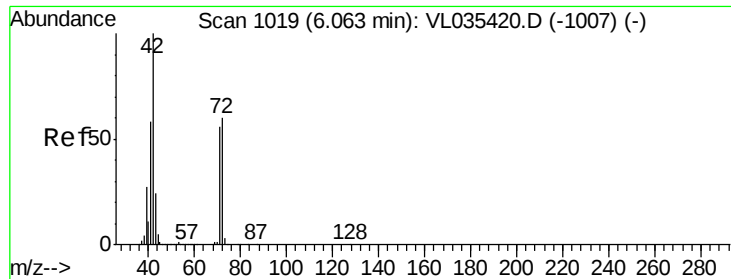
88 100

58 89.9 106.6 160.0#

43 138.9 209.7 314.5#

57 753.4 873.3 1309.9#





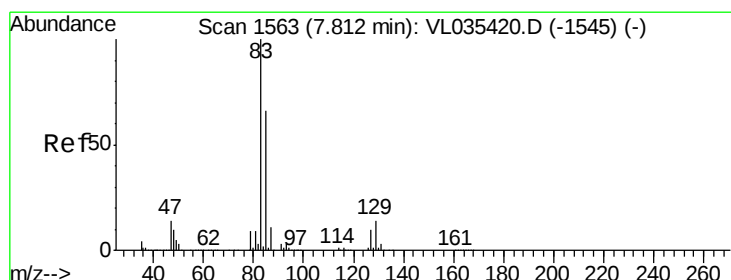
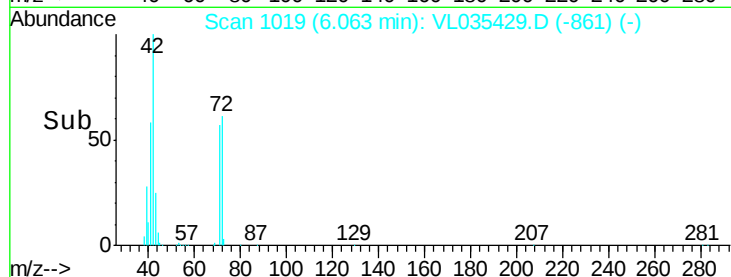
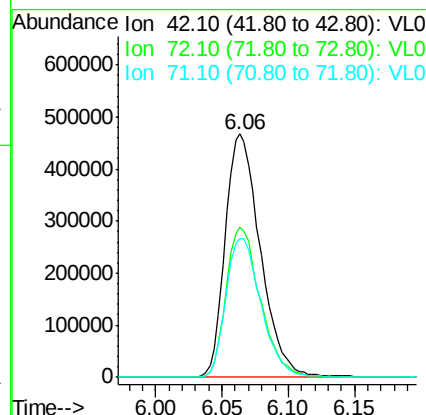
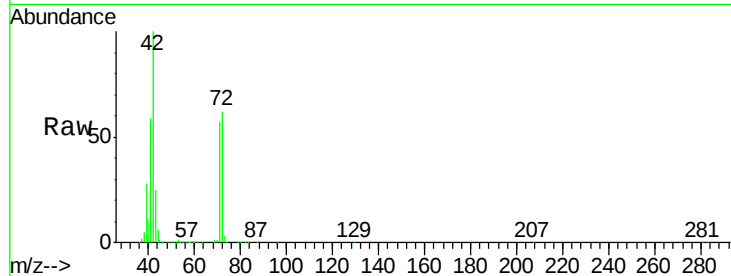
#41  
Tetrahydrofuran  
Concen: 9.406 ppbv  
RT: 6.06 min Scan# 1019  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0817ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 60.8  | 29.4  | 44.2# |
| 71      | 57.6  | 28.9  | 43.3# |

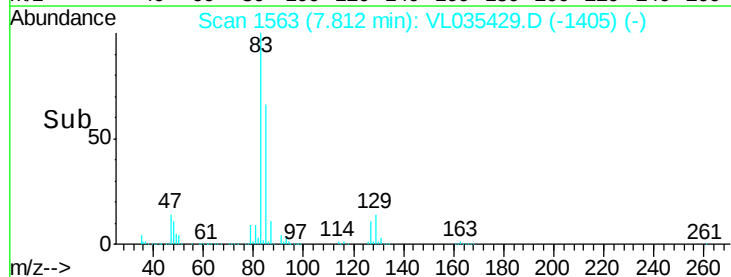
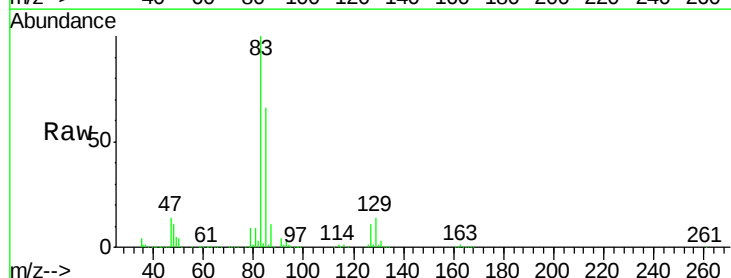
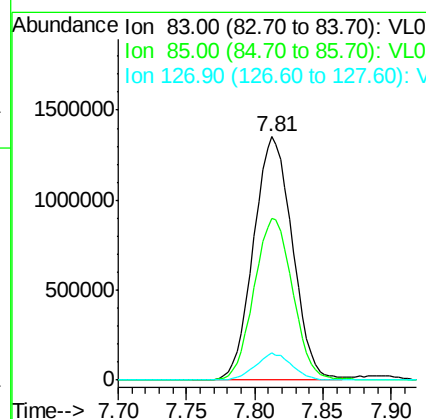
Manual Integrations  
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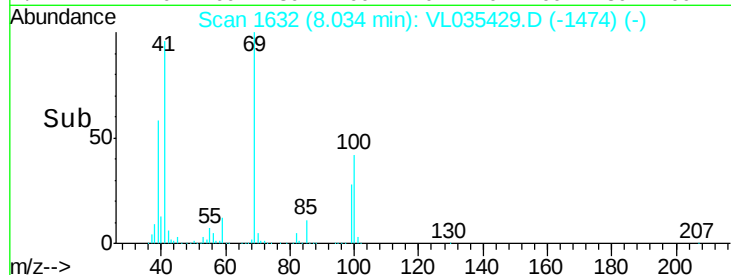
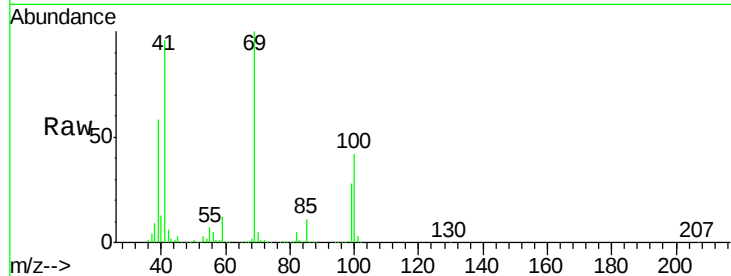
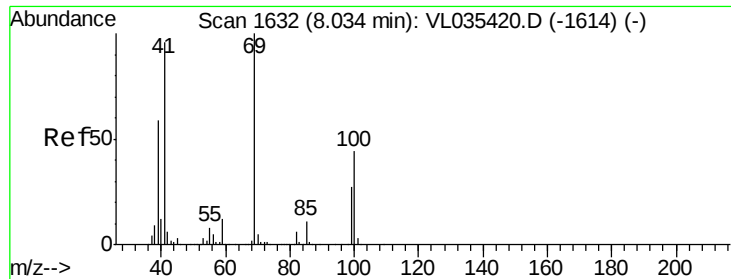
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#42  
Bromodichloromethane  
Concen: 9.612 ppbv  
RT: 7.81 min Scan# 1563  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 66.3  | 54.8  | 82.2  |
| 127     | 11.0  | 6.1   | 9.1#  |





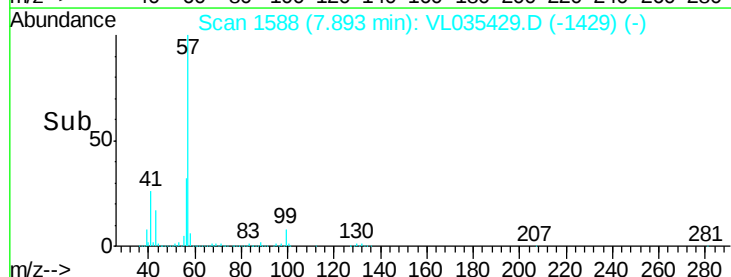
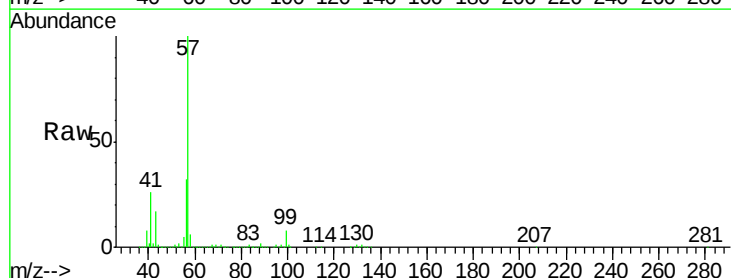
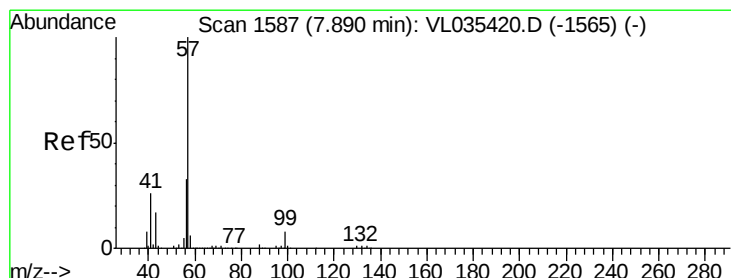
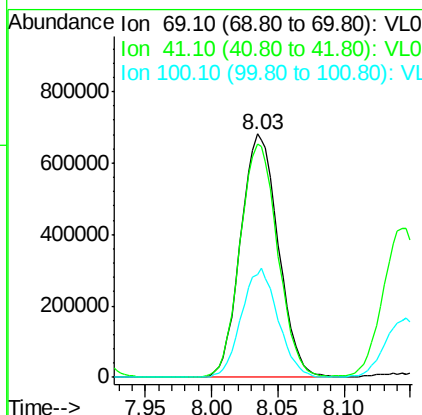
#43  
Methvl Methacrylate  
Concen: 9.453 ppbv  
RT: 8.03 min Scan# 1632  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

Tot Ion: 69 Resp: 1344947  
Ion Ratio Lower Upper  
69 100  
41 96.0 123.4 185.0#  
100 43.3 24.2 36.4#

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0817ABS01

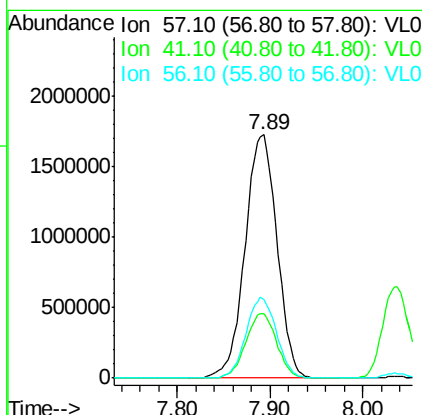
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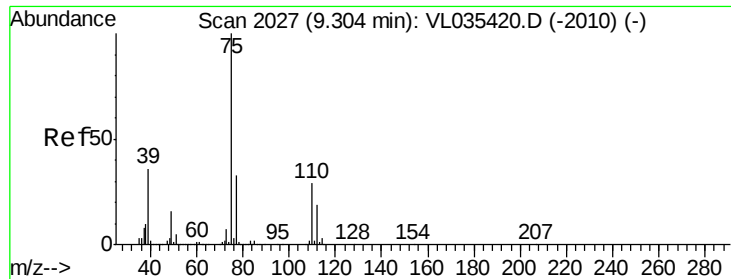
MMDadoda  
8/20/2020 11:05:55 AM



#44  
2,2,4-Trimethylpentane  
Concen: 8.682 ppbv  
RT: 7.89 min Scan# 1588  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

Tgt Ion: 57 Resp: 4125058  
Ion Ratio Lower Upper  
57 100  
41 25.5 27.2 40.8#  
56 31.6 25.4 38.0





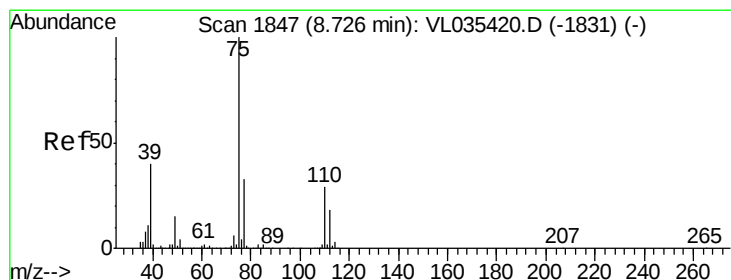
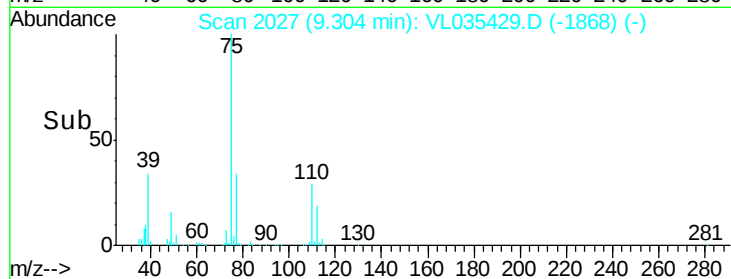
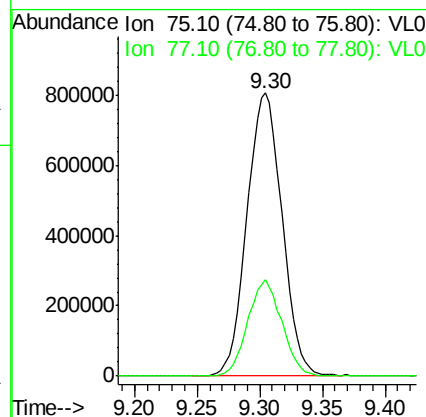
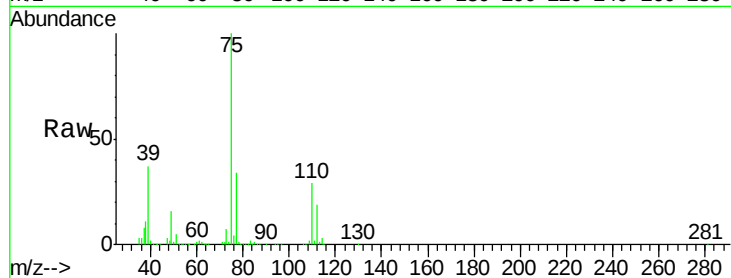
#45  
t-1,3-Dichloropropene  
Concen: 10.725 ppbv  
RT: 9.30 min Scan# 2027  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0817ABS01

Tot Ion: 75 Resp: 1571835  
Ion Ratio Lower Upper  
75 100  
77 34.0 25.0 37.6

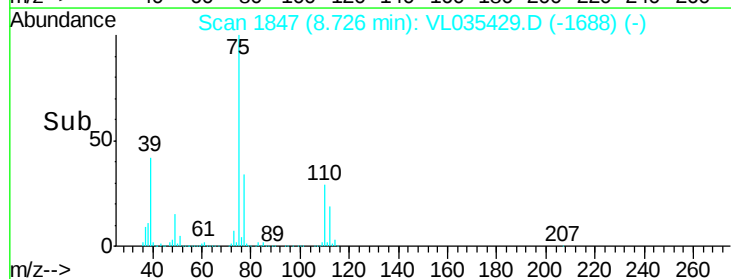
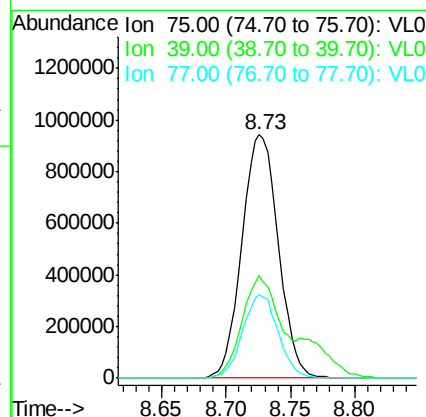
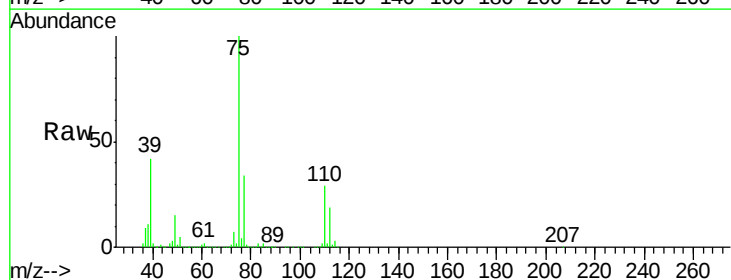
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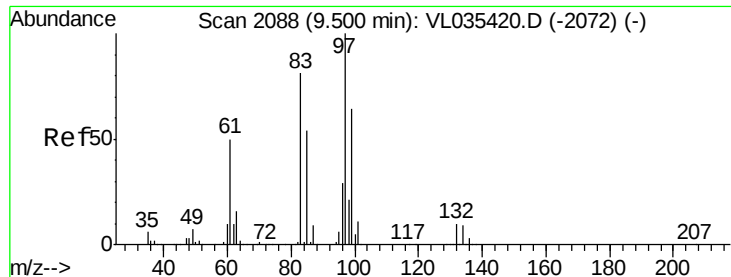
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#46  
cis-1,3-Dichloropropene  
Concen: 10.153 ppbv  
RT: 8.73 min Scan# 1847  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

Tgt Ion: 75 Resp: 1853693  
Ion Ratio Lower Upper  
75 100  
39 42.0 55.8 83.6#  
77 34.1 25.6 38.4





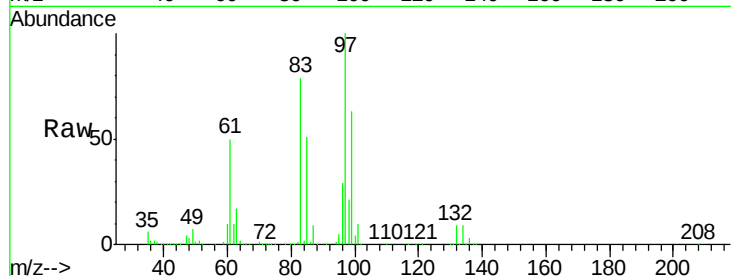
#47  
 1,1,2-Trichloroethane  
 Concen: 9.071 ppbv  
 RT: 9.50 min Scan# 2089  
 Delta R.T. 0.01 min  
 Lab File: VL035429.D  
 Acq: 17 Aug 2020 22:26

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0817ABS01

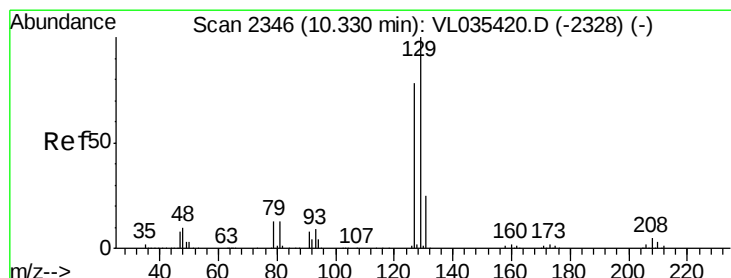
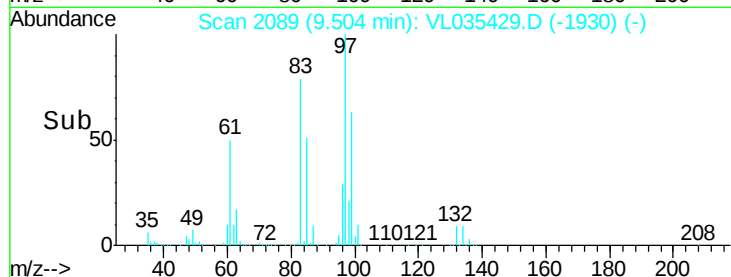
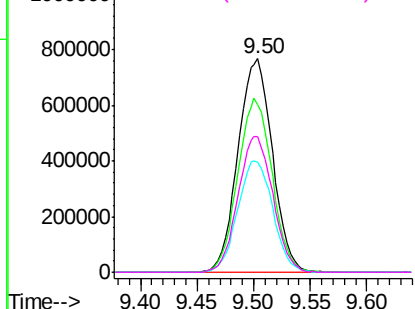
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 78.8  | 72.1  | 108.1 |
| 85      | 51.4  | 46.8  | 70.2  |
| 99      | 63.3  | 48.6  | 73.0  |

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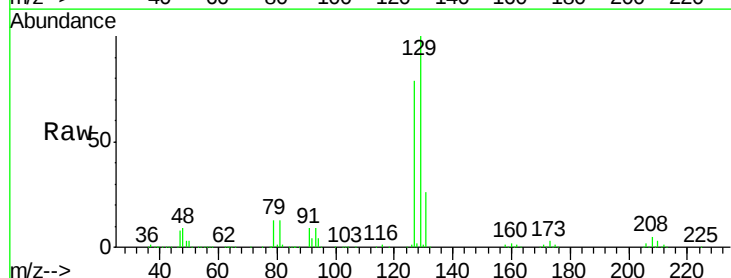


Abundance Ion 97.00 (96.70 to 97.70): VL0  
 1200000  
 Ion 83.00 (82.70 to 83.70): VL0  
 Ion 85.00 (84.70 to 85.70): VL0  
 Ion 99.00 (98.70 to 99.70): VL0

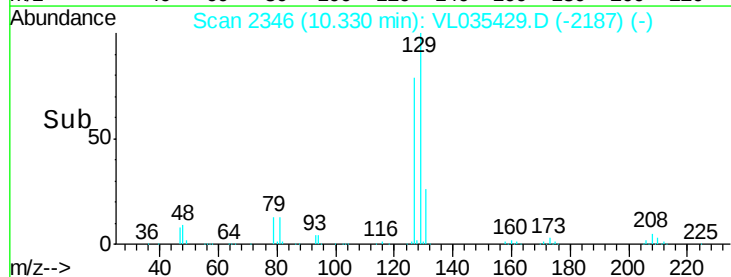
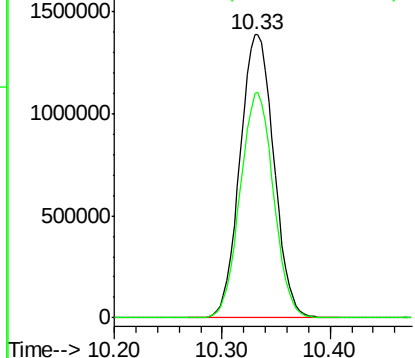


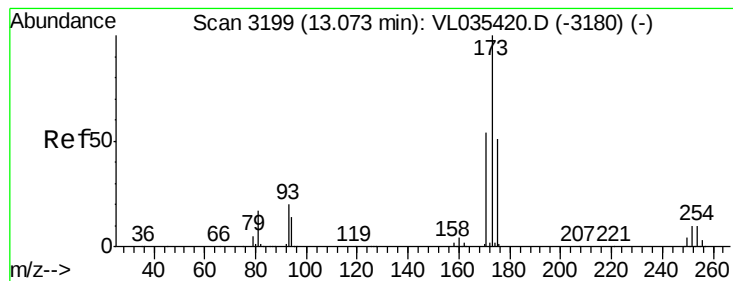
#48  
 Dibromochloromethane  
 Concen: 10.078 ppbv  
 RT: 10.33 min Scan# 2346  
 Delta R.T. 0.01 min  
 Lab File: VL035429.D  
 Acq: 17 Aug 2020 22:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 78.5  | 39.5  | 118.5 |



Abundance Ion 129.00 (128.70 to 129.70): V  
 1500000  
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.575 ppbv

RT: 13.07 min Scan# 3199

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0817ABS01

Tot Ion:173 Resp: 3060835

Ion Ratio Lower Upper

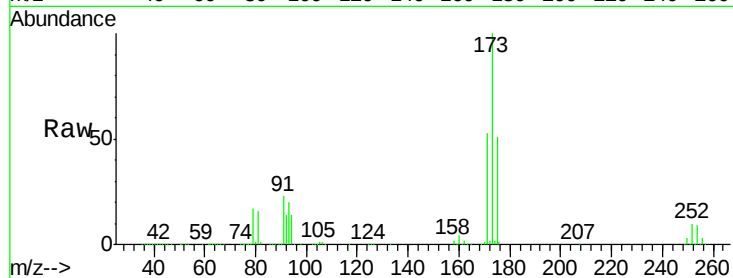
173 100

175 50.6 39.8 59.8

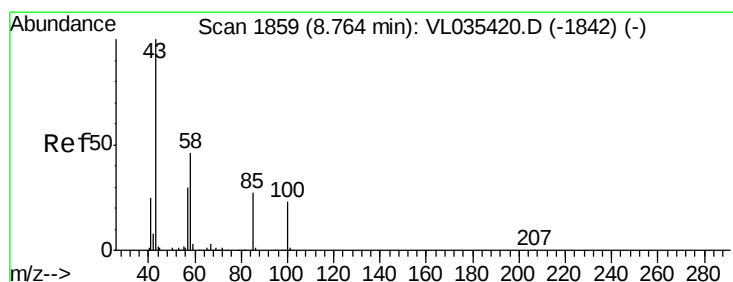
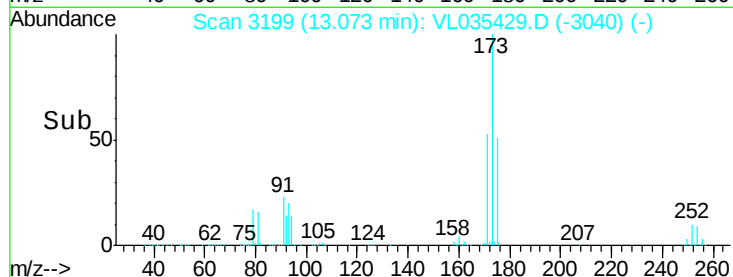
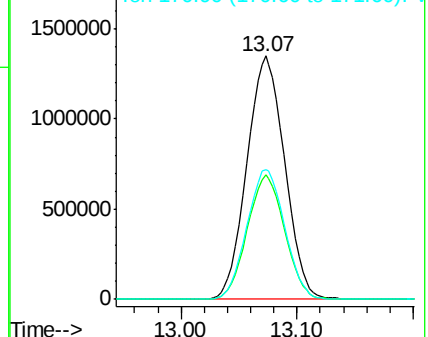
171 53.6 42.4 63.6

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



#50

4-Methyl-2-Pentanone

Concen: 9.266 ppbv

RT: 8.76 min Scan# 1859

Delta R.T. 0.01 min

Lab File: VL035429.D

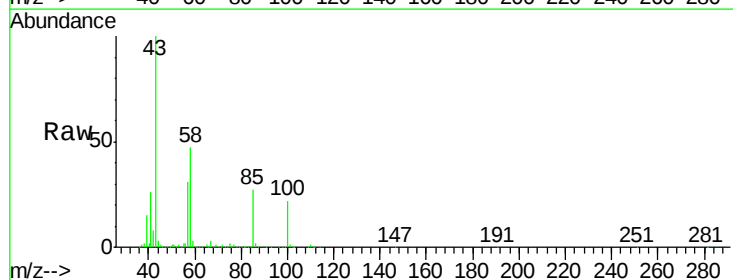
Acq: 17 Aug 2020 22:26

Tgt Ion: 43 Resp: 2201265

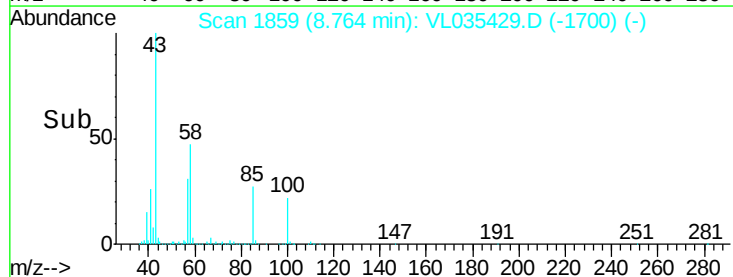
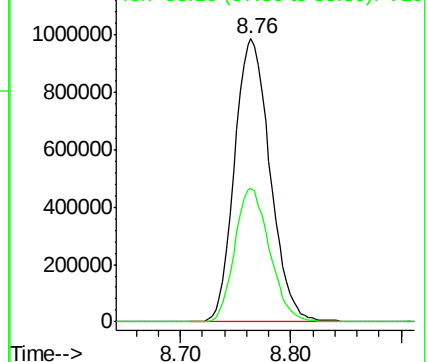
Ion Ratio Lower Upper

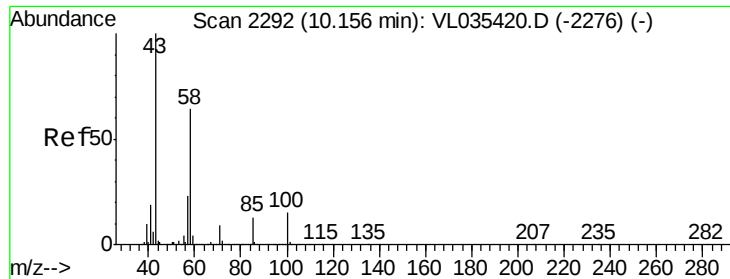
43 100

58 46.6 28.7 43.1#



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





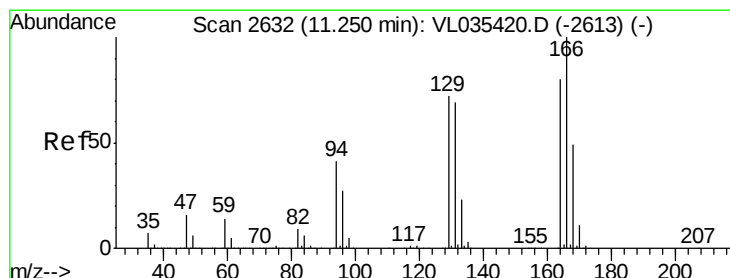
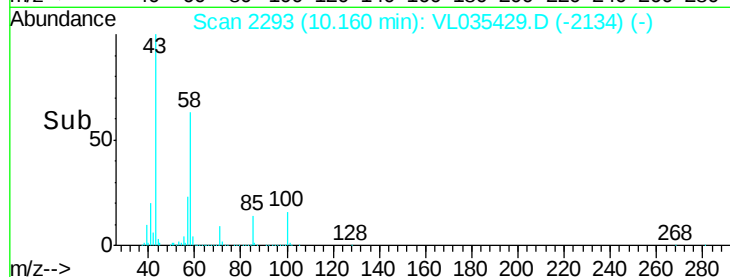
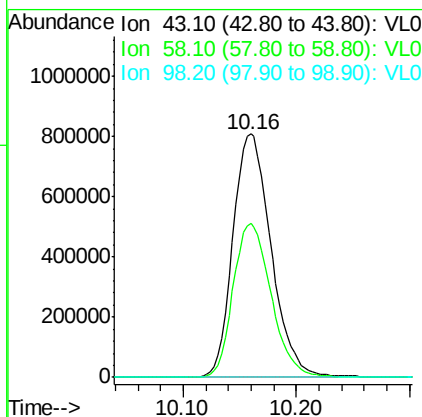
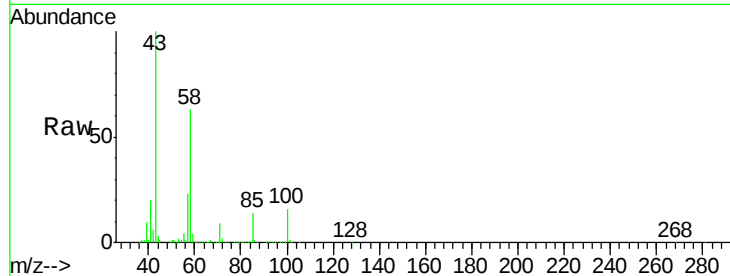
#51  
2-Hexanone  
Concen: 9.460 ppbv  
RT: 10.16 min Scan# 2293  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0817ABS01

Tot Ion: 43 Resp: 1894499  
Ion Ratio Lower Upper  
43 100  
58 63.4 38.6 58.0#  
98 0.4 0.2 0.2#

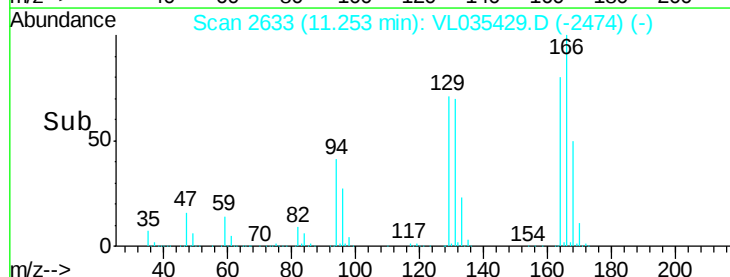
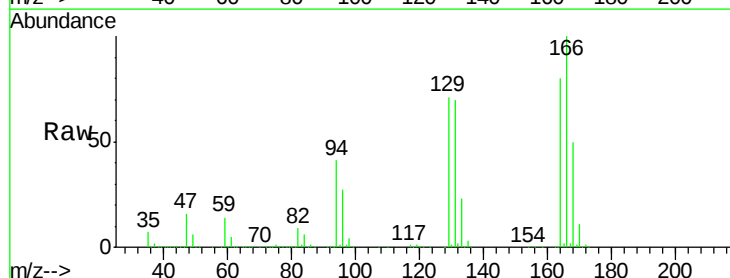
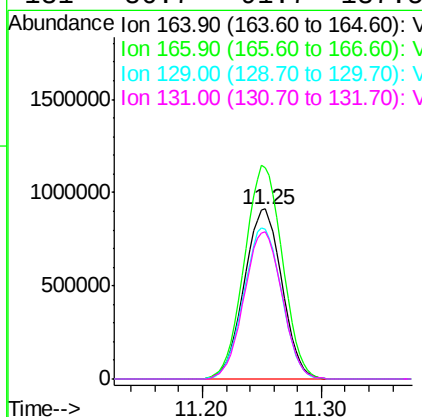
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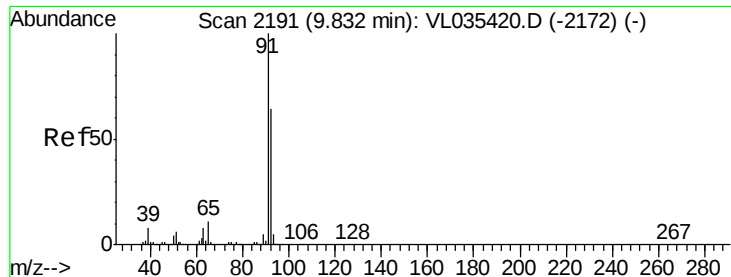
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#52  
Tetrachloroethene  
Concen: 9.036 ppbv  
RT: 11.25 min Scan# 2633  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

Tgt Ion: 164 Resp: 2005212  
Ion Ratio Lower Upper  
164 100  
166 124.6 103.4 155.0  
129 88.3 90.2 135.4#  
131 86.7 91.7 137.5#





#53

Toluene

Concen: 8.996 ppbv

RT: 9.83 min Scan# 2191

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0817ABS01

Tot Ion: 91 Resp: 4215634

Ion Ratio Lower Upper

91 100

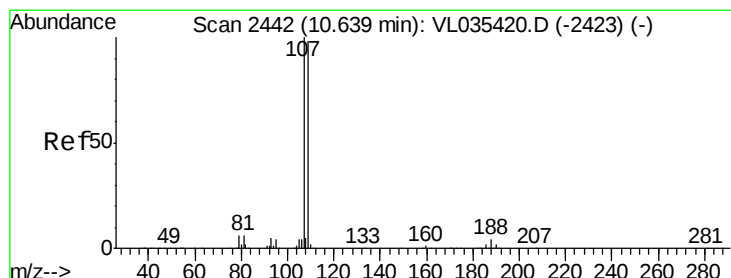
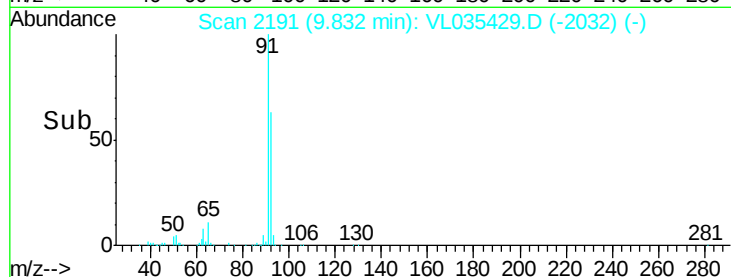
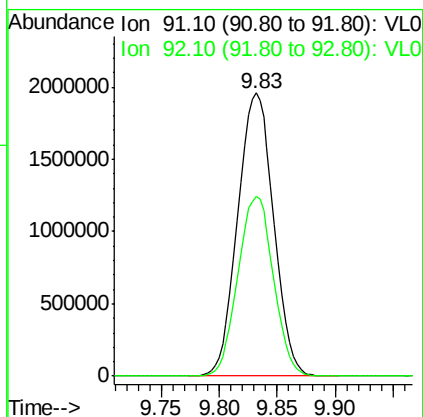
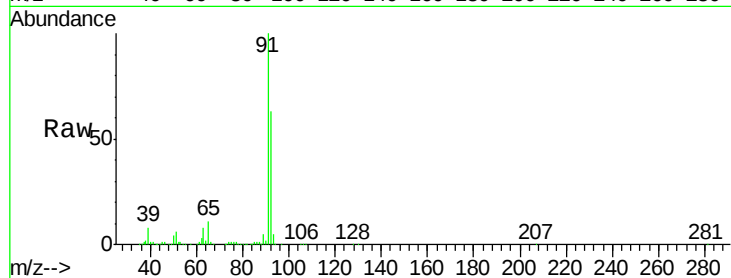
92 62.8 49.1 73.7

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#54

1,2-Dibromoethane

Concen: 9.087 ppbv

RT: 10.64 min Scan# 2442

Delta R.T. 0.01 min

Lab File: VL035429.D

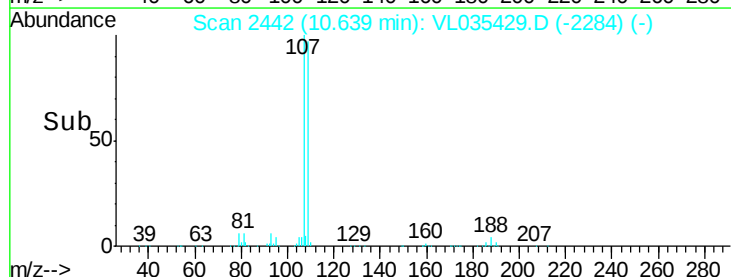
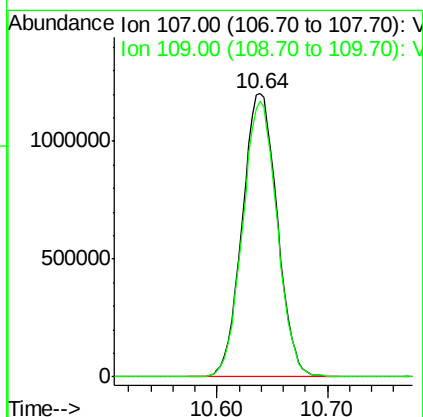
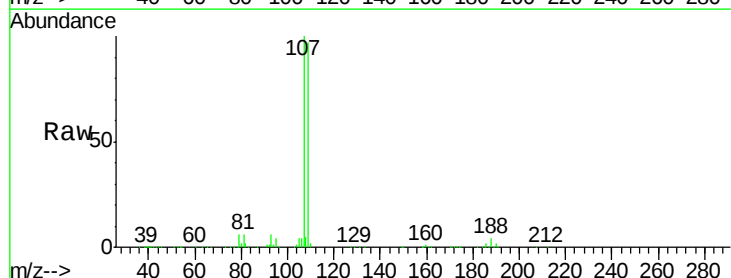
Acq: 17 Aug 2020 22:26

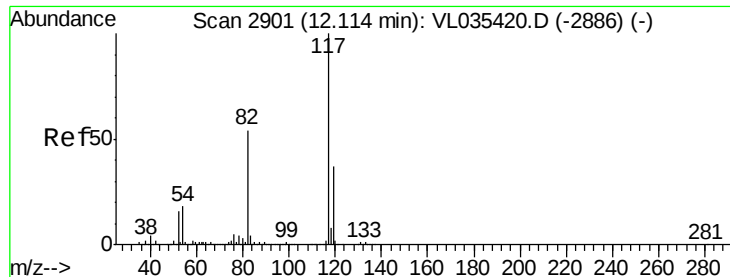
Tgt Ion: 107 Resp: 2643202

Ion Ratio Lower Upper

107 100

109 97.4 75.1 112.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.12 min Scan# 2902

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0817ABS01

Tot Ion:117 Resp: 5229552

Ion Ratio Lower Upper

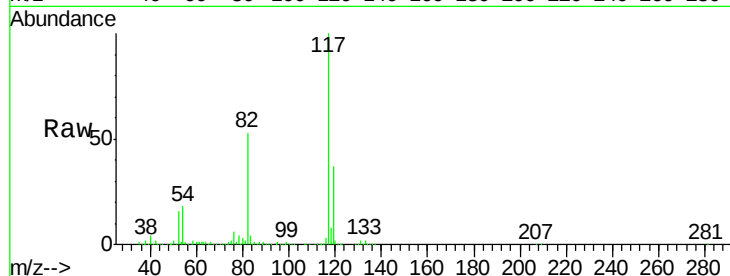
117 100

82 51.8 57.4 86.0#

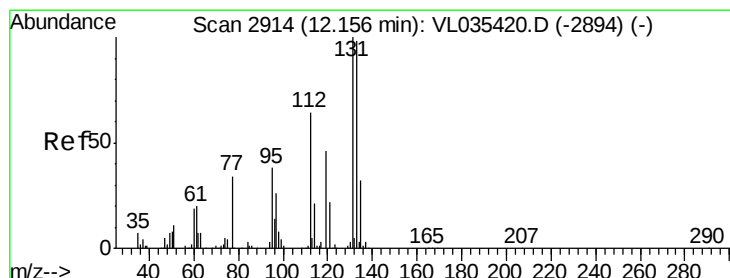
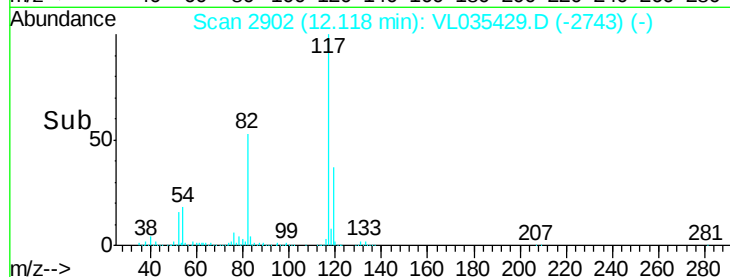
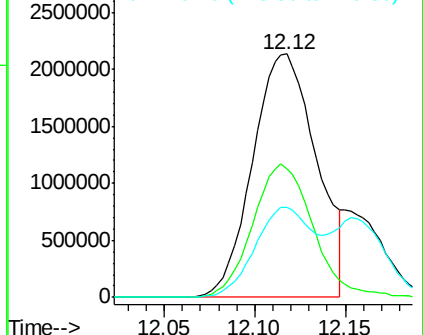
119 35.8 28.4 42.6

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Abundance Ion 117.10 (116.80 to 117.80): V  
Ion 82.10 (81.80 to 82.80): V  
Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.409 ppbv

RT: 12.16 min Scan# 2914

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

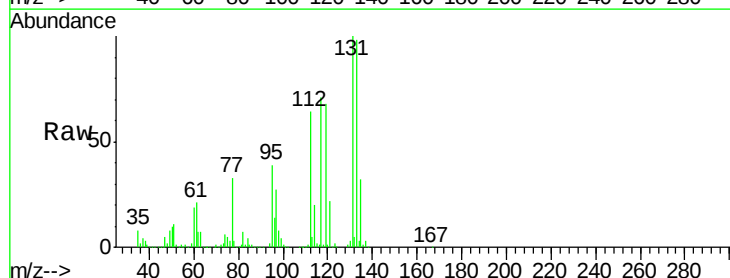
Tgt Ion:131 Resp: 2334104

Ion Ratio Lower Upper

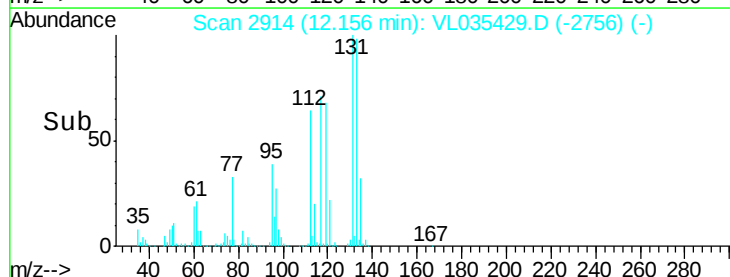
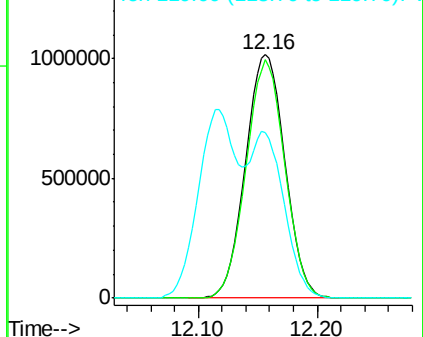
131 100

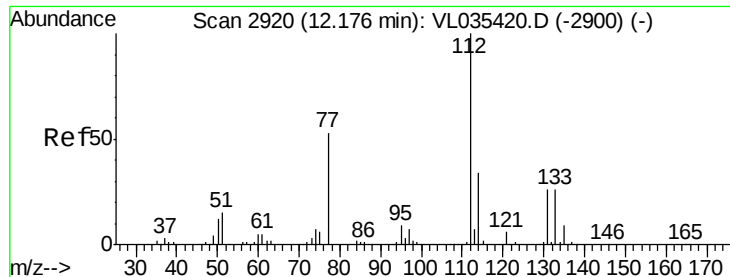
133 96.2 76.1 114.1

119 57.5 50.7 76.1



Abundance Ion 131.00 (130.70 to 131.70): V  
Ion 133.00 (132.70 to 133.70): V  
Ion 119.00 (118.70 to 119.70): V





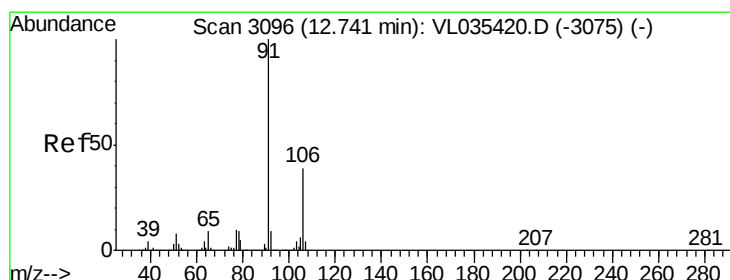
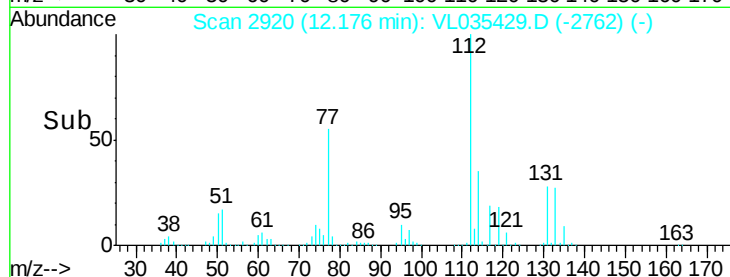
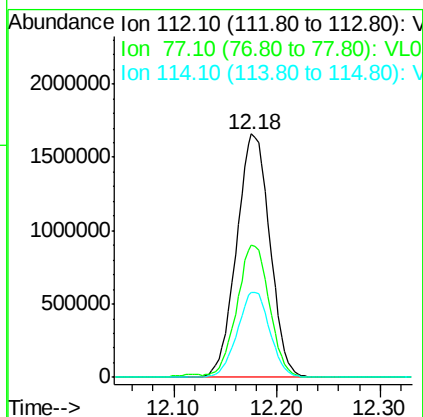
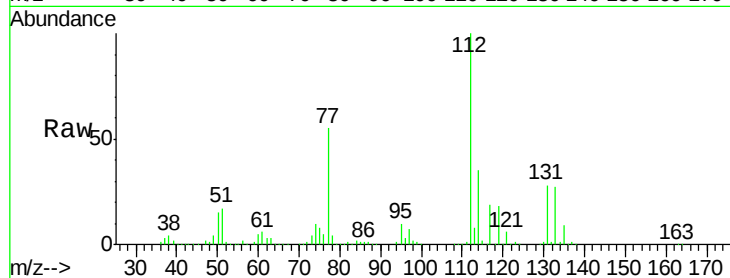
#57  
Chlorobenzene  
Concen: 8.543 ppbv  
RT: 12.18 min Scan# 2920  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0817ABS01

Tot Ion: 112 Resp: 3729130  
Ion Ratio Lower Upper  
112 100  
77 54.4 60.6 91.0#  
114 34.8 28.5 34.9

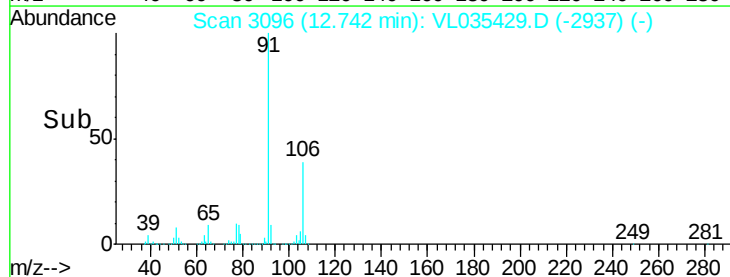
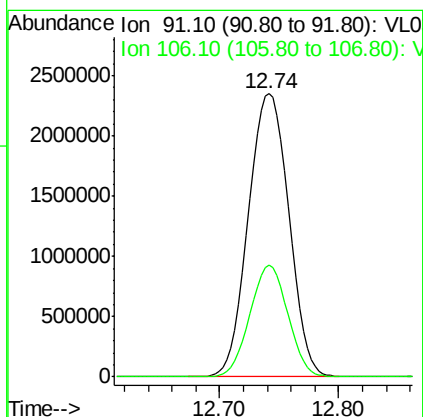
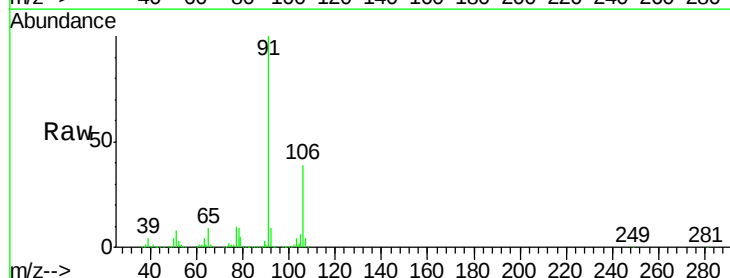
Manual Integrations  
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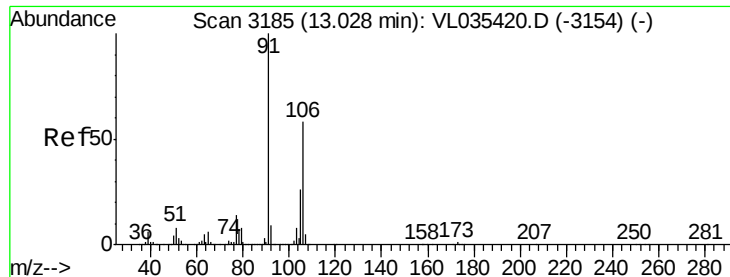
MMDadoda  
8/20/2020 11:05:55 AM



#58  
Ethyl Benzene  
Concen: 8.793 ppbv  
RT: 12.74 min Scan# 3096  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

Tgt Ion: 91 Resp: 5550829  
Ion Ratio Lower Upper  
91 100  
106 39.5 24.1 36.1#





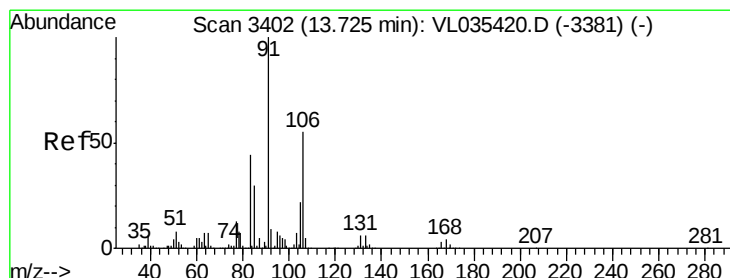
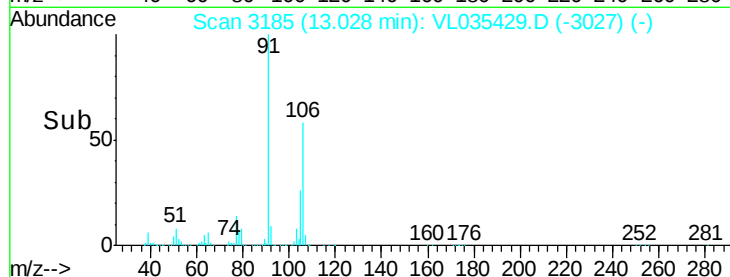
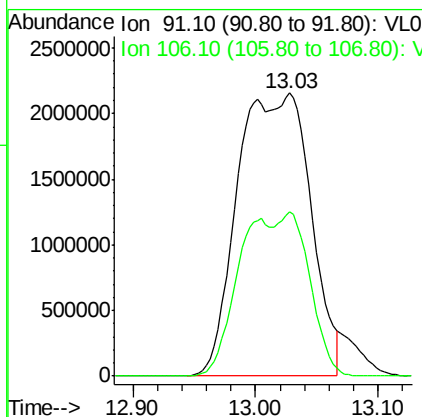
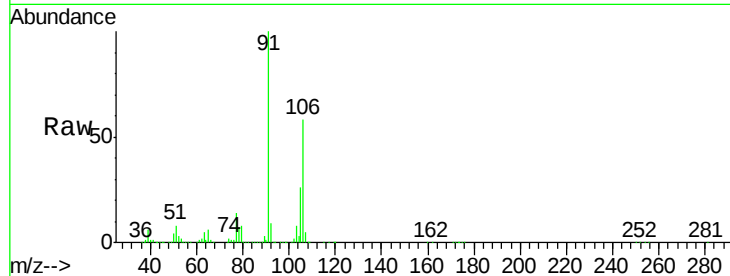
#59  
m/p-Xylene  
Concen: 16.690 ppbv m  
RT: 13.03 min Scan# 3185  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0817ABS01

Tot Ion: 91 Resp: 8906443  
Ion Ratio Lower Upper  
91 100  
106 55.1 34.0 51.0#

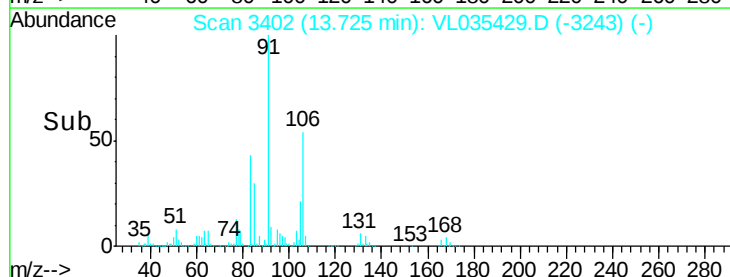
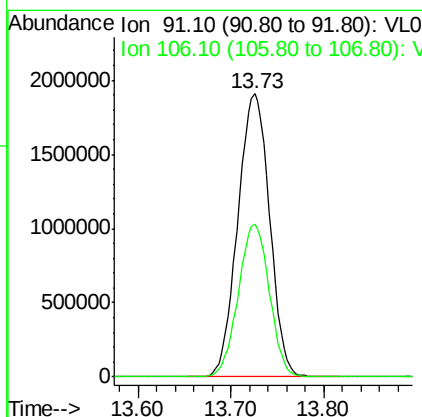
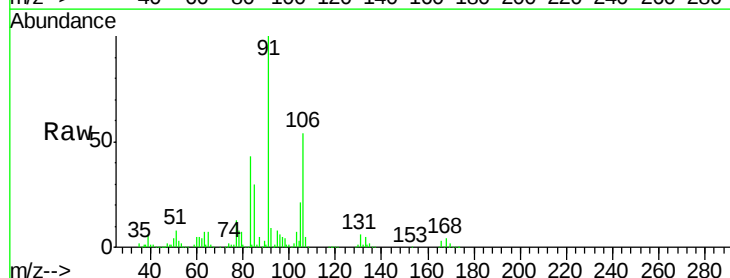
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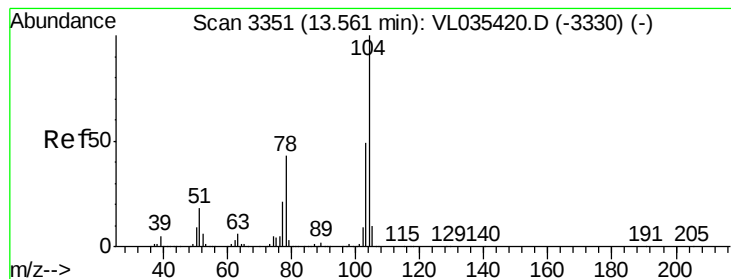
MMDadoda  
8/20/2020 11:05:55 AM



#60  
o-Xylene  
Concen: 8.762 ppbv  
RT: 13.73 min Scan# 3402  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

Tgt Ion: 91 Resp: 4544335  
Ion Ratio Lower Upper  
91 100  
106 52.6 21.8 65.3





#61

Stvrene

Concen: 9.261 ppbv

RT: 13.56 min Scan# 3350

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0817ABS01

Tot Ion:104 Resp: 3881134

Ion Ratio Lower Upper

104 100

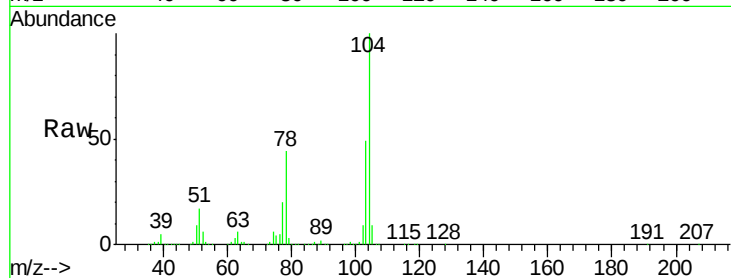
78 43.2 45.4 68.2#

103 47.9 37.8 56.8

Manual Integrations  
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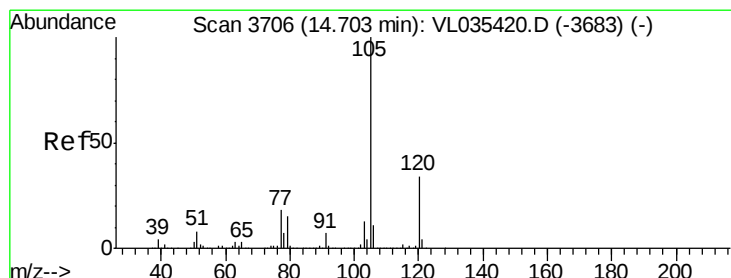
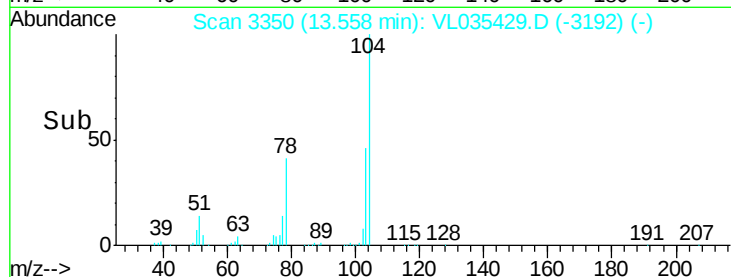
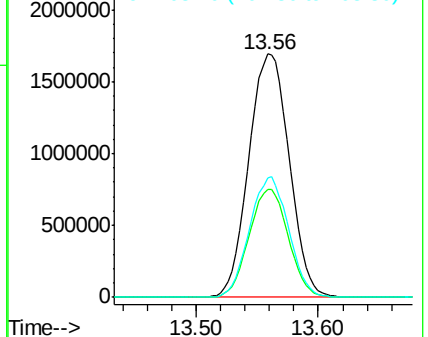
8/20/2020 11:05:55 AM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 8.423 ppbv

RT: 14.70 min Scan# 3706

Delta R.T. 0.01 min

Lab File: VL035429.D

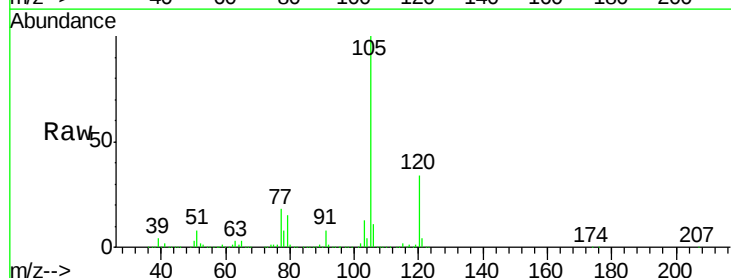
Acq: 17 Aug 2020 22:26

Tgt Ion:105 Resp: 7160024

Ion Ratio Lower Upper

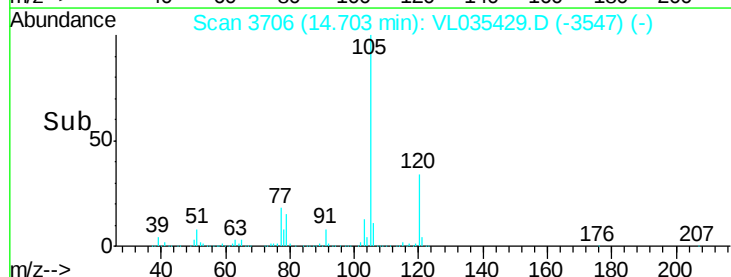
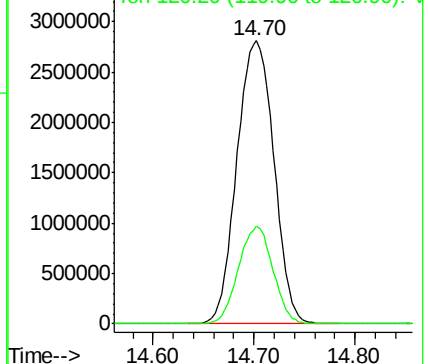
105 100

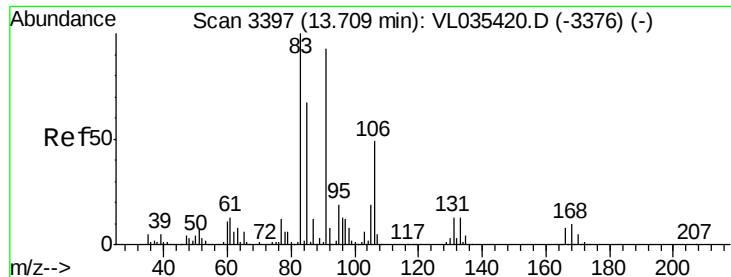
120 32.1 20.3 30.5#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 8.485 ppbv

RT: 13.71 min Scan# 3397

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0817ABS01

Tot Ion: 83 Resp: 3161268

Ion Ratio Lower Upper

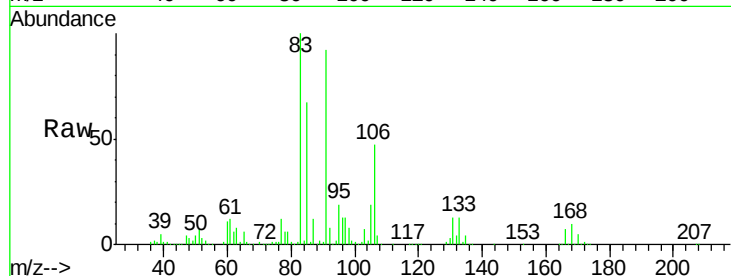
83 100

131 12.8 4.5 13.4

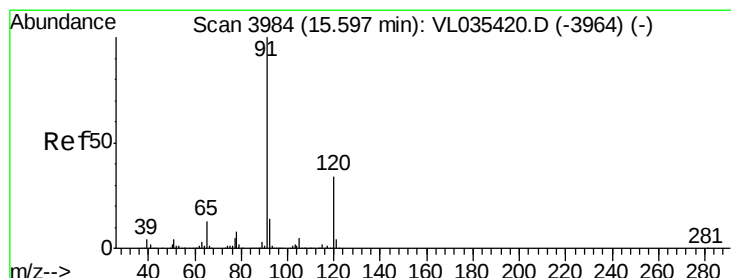
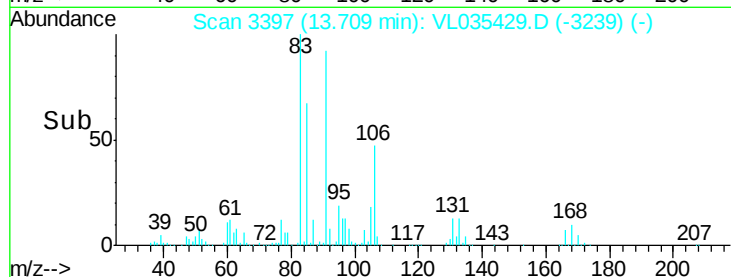
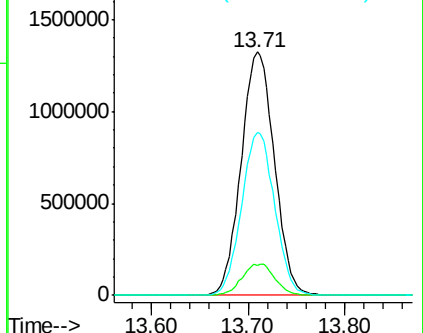
85 66.6 32.7 98.1

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Abundance Ion 83.00 (82.70 to 83.70): VL0  
Ion 131.00 (130.70 to 131.70): V  
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 9.149 ppbv

RT: 15.60 min Scan# 3984

Delta R.T. 0.01 min

Lab File: VL035429.D

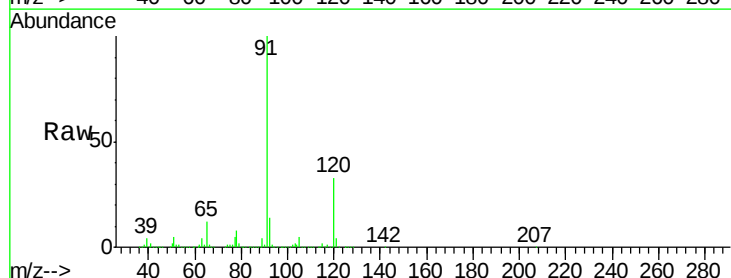
Acq: 17 Aug 2020 22:26

Tgt Ion:120 Resp: 2397085

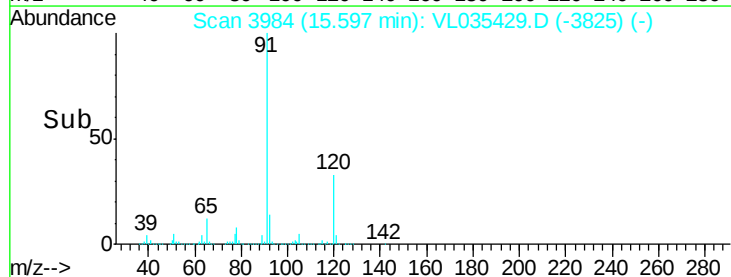
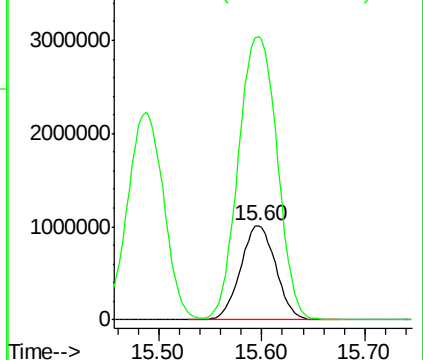
Ion Ratio Lower Upper

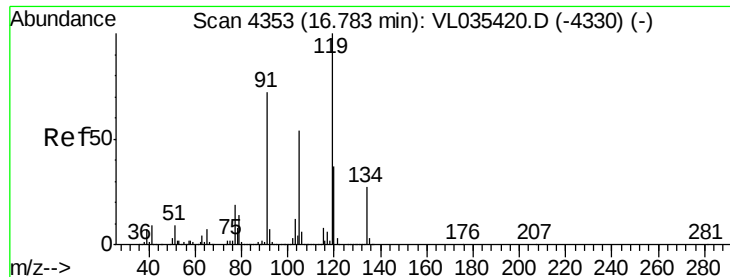
120 100

91 332.5 385.5 578.3#



Abundance Ion 120.20 (119.90 to 120.90): V  
Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 8.469 ppbv

RT: 16.78 min Scan# 4353

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0817ABS01

Tot Ion:119 Resp: 6995869

Ion Ratio Lower Upper

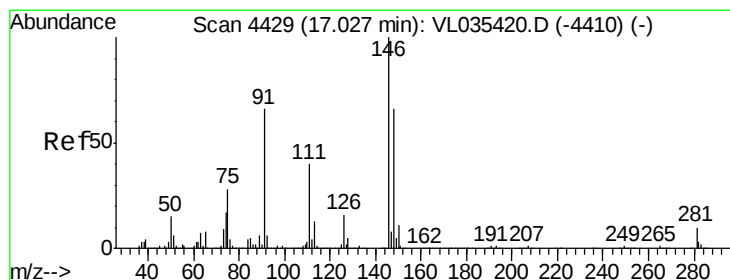
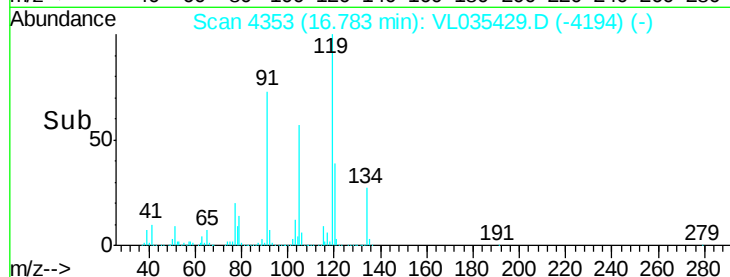
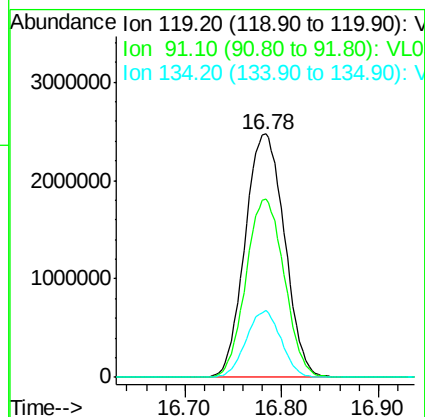
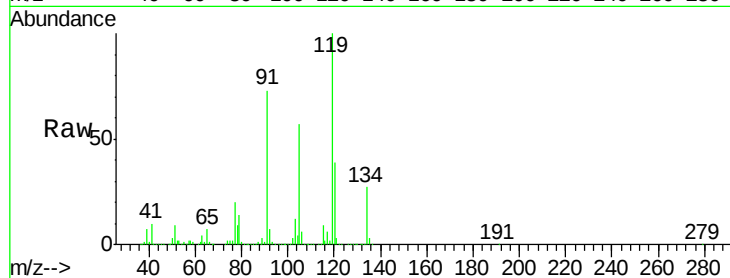
119 100

91 71.3 72.0 108.0#

134 24.3 15.7 23.5#

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#66

Benzyl Chloride

Concen: 11.866 ppbv

RT: 17.03 min Scan# 4429

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

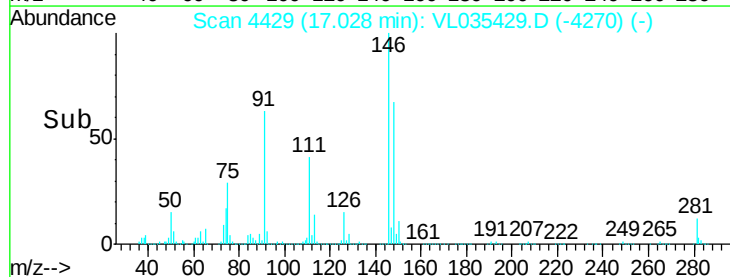
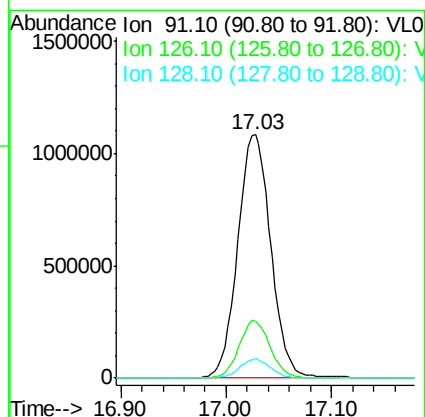
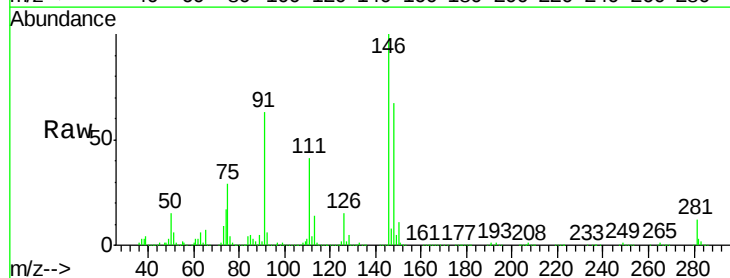
Tgt Ion: 91 Resp: 2357666

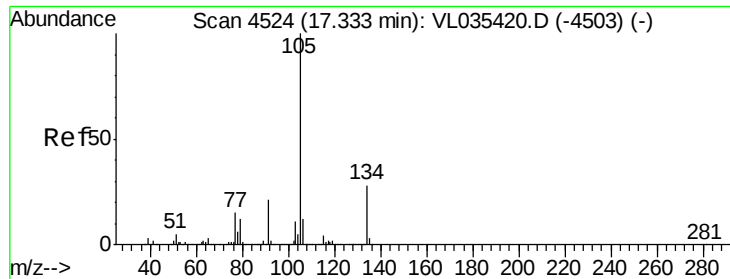
Ion Ratio Lower Upper

91 100

126 22.5 13.3 19.9#

128 7.4 4.1 6.1#





#67

sec-Butylbenzene

Concen: 8.155 ppbv

RT: 17.33 min Scan# 4524

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0817ABS01

Tot Ion:105 Resp: 8865824

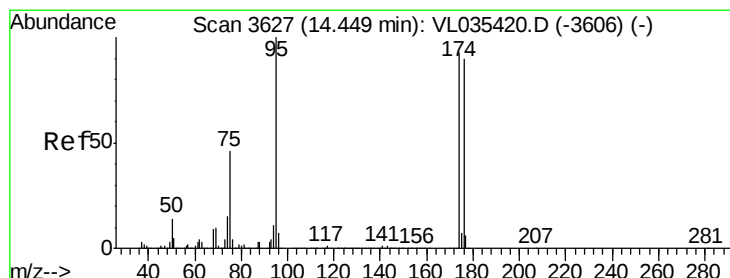
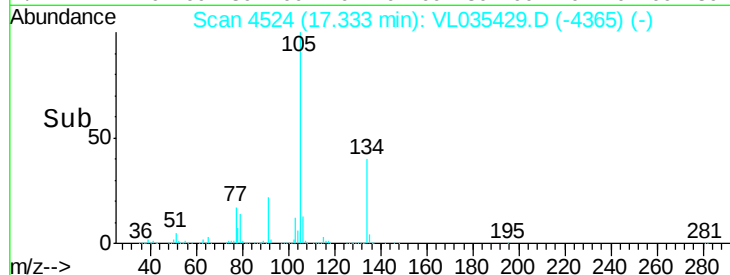
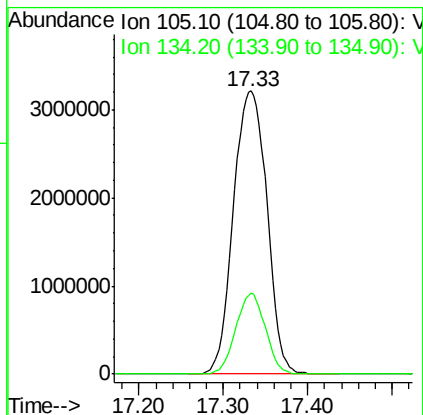
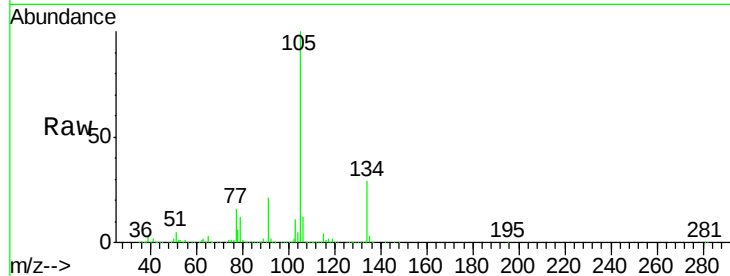
Ion Ratio Lower Upper

105 100

134 25.3 14.1 21.1#

Manual Integrations  
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#68

1-Bromo-4-Fluorobenzene

Concen: 9.922 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

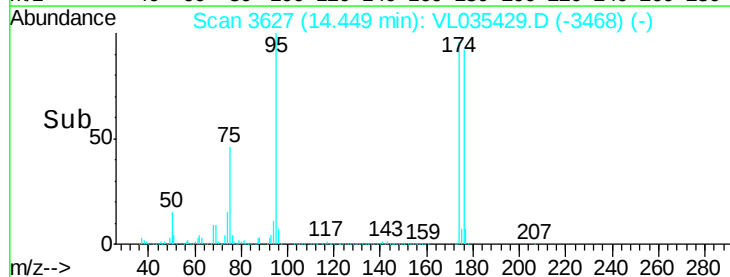
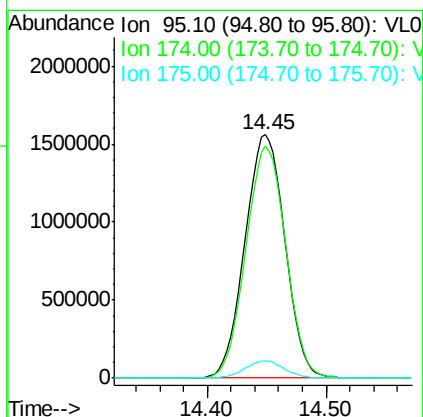
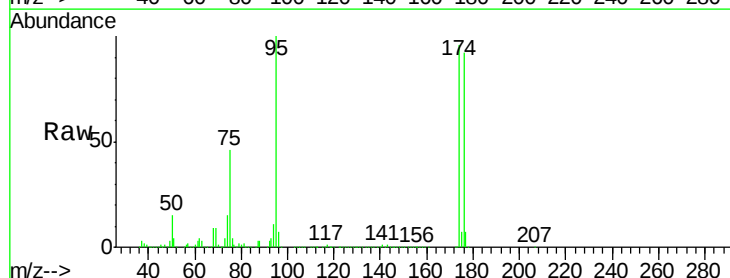
Tgt Ion: 95 Resp: 3632408

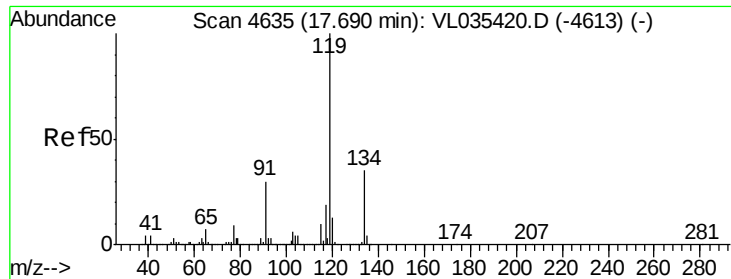
Ion Ratio Lower Upper

95 100

174 95.4 44.0 66.0#

175 7.0 3.2 4.8#





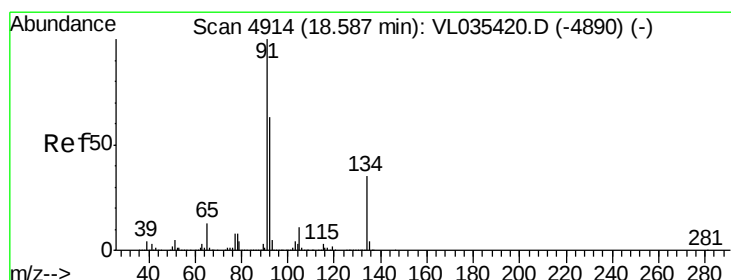
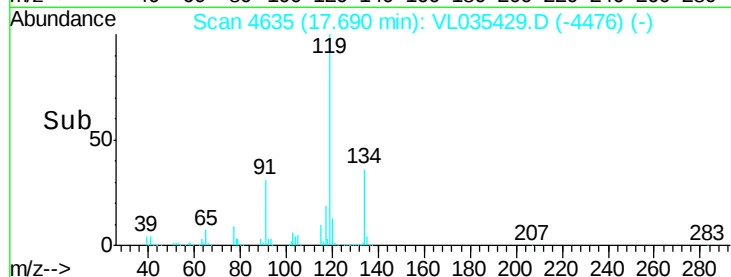
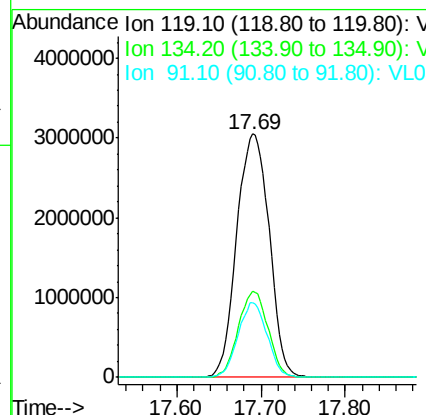
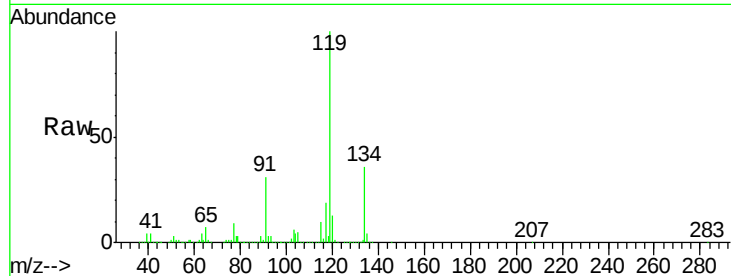
#69  
 p-Isopropyltoluene  
 Concen: 8.453 ppbv  
 RT: 17.69 min Scan# 4635  
 Delta R.T. 0.01 min  
 Lab File: VL035429.D  
 Acq: 17 Aug 2020 22:26

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0817ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 32.4  | 20.6  | 30.8# |
| 91      | 27.5  | 26.6  | 39.8  |

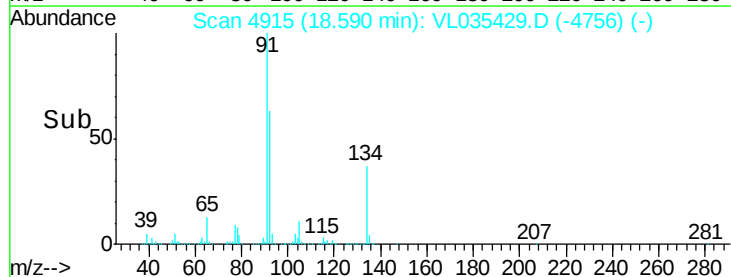
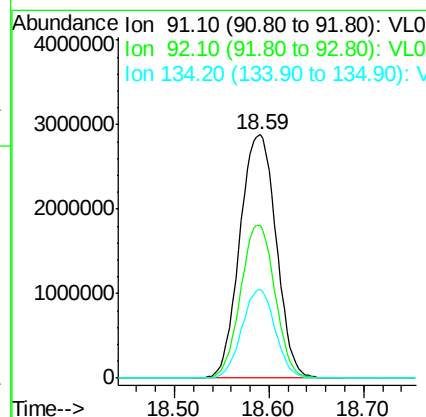
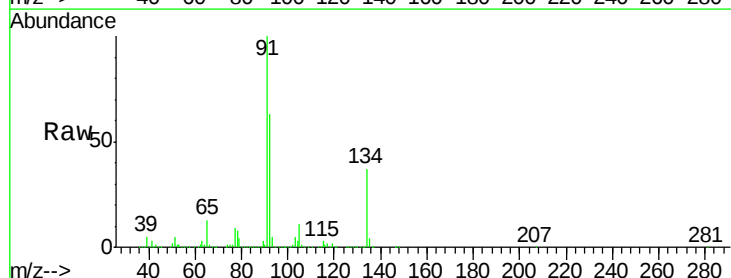
Manual Integrations  
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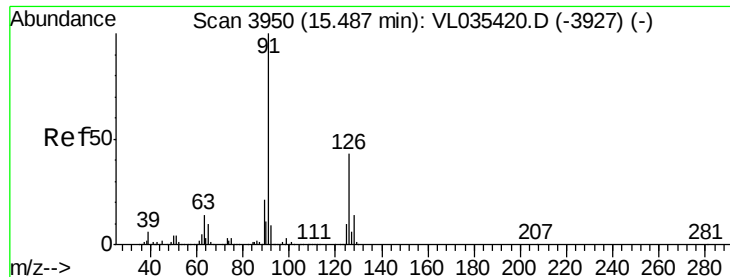
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#70  
 n-Butylbenzene  
 Concen: 8.428 ppbv  
 RT: 18.59 min Scan# 4915  
 Delta R.T. 0.01 min  
 Lab File: VL035429.D  
 Acq: 17 Aug 2020 22:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 59.5  | 44.8  | 67.2  |
| 134     | 33.3  | 17.3  | 25.9# |





#71

2-Chlorotoluene

Concen: 8.808 ppbv

RT: 15.49 min Scan# 3950

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0817ABS01

Tot Ion: 91 Resp: 5432834

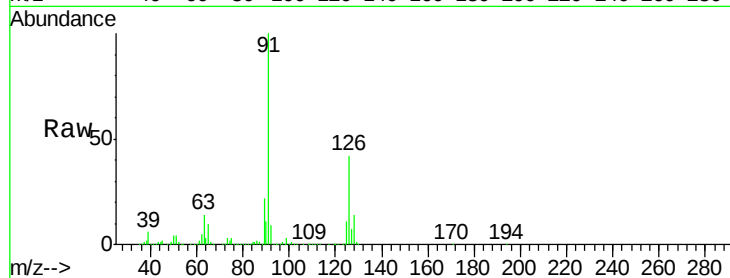
Ion Ratio Lower Upper

91 100

126 40.7 11.4 45.6

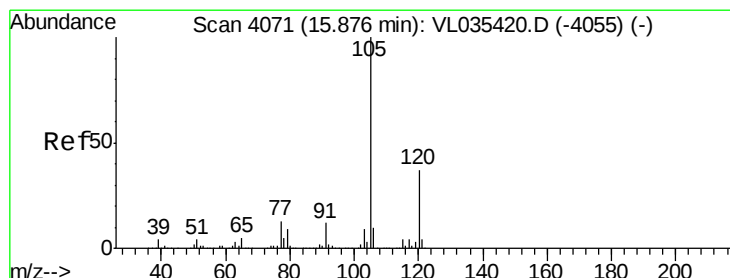
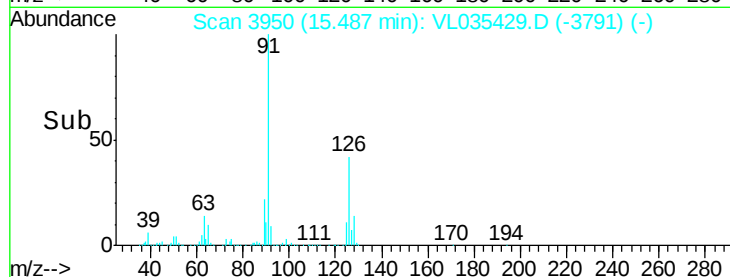
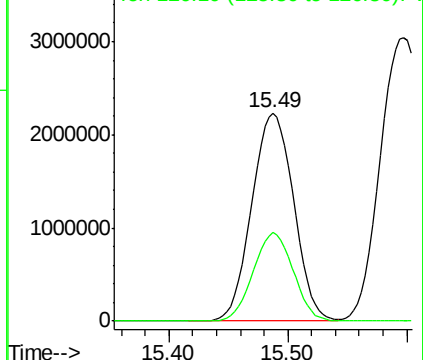
Manual Integrations  
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 8.870 ppbv

RT: 15.88 min Scan# 4071

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

Tgt Ion:105 Resp: 6037374

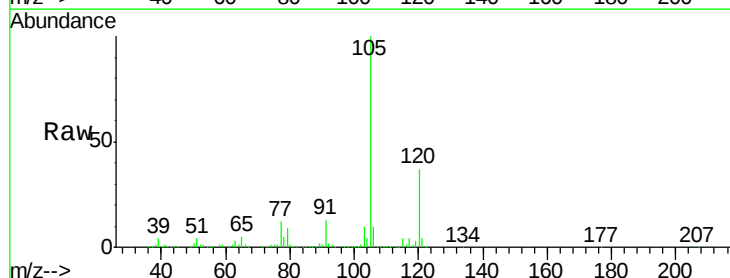
Ion Ratio Lower Upper

105 100

120 35.4 22.7 34.1#

91 12.0 10.8 16.2

77 11.8 11.9 17.9#

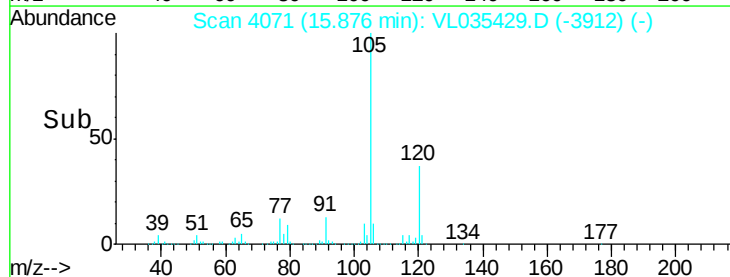
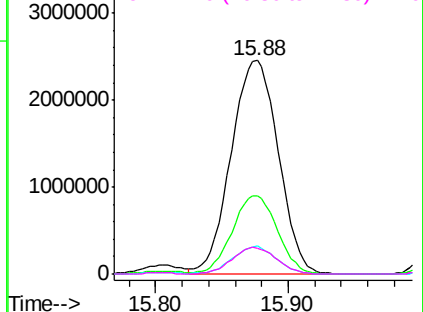


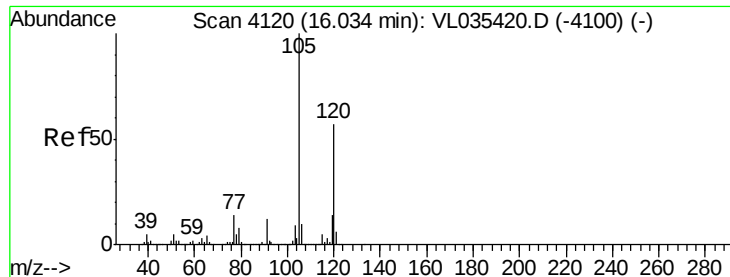
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 8.932 ppbv

RT: 16.03 min Scan# 4120

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0817ABS01

Tot Ion:105 Resp: 5656578

Ion Ratio Lower Upper

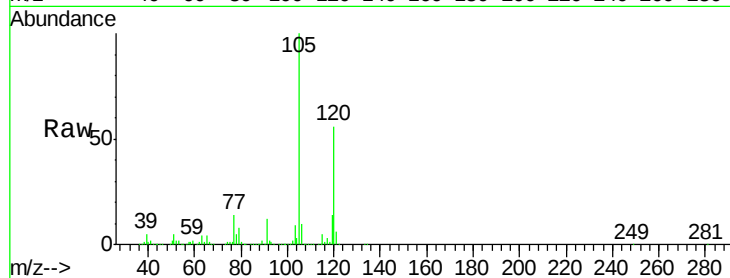
105 100

120 56.3 35.6 53.4#

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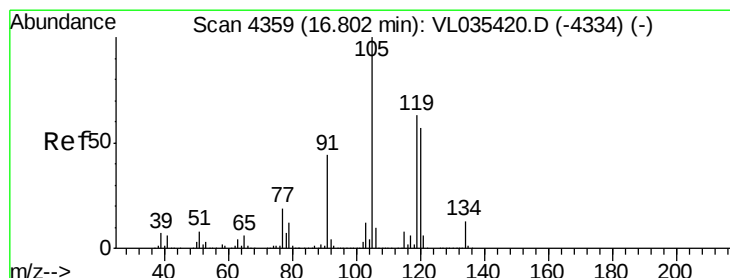
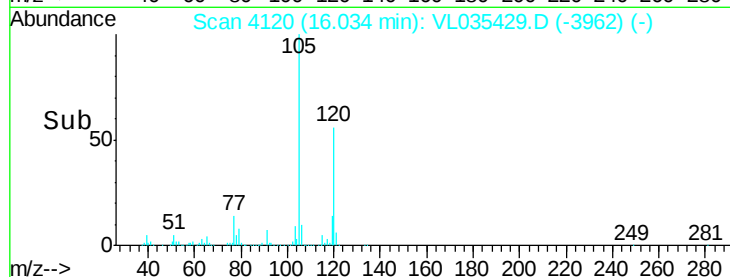
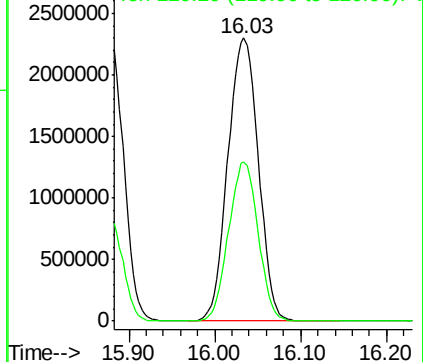
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.475 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

Tgt Ion:105 Resp: 5831828

Ion Ratio Lower Upper

105 100

120 58.1 37.8 56.8#

91 51.9 40.0 60.0

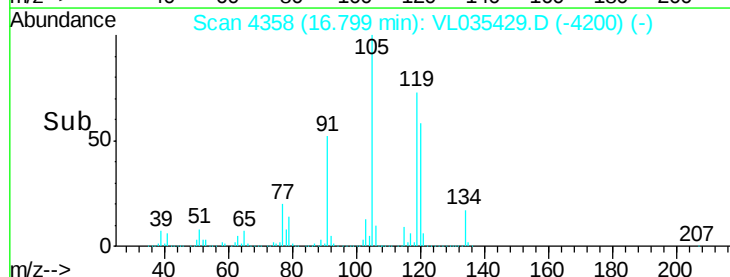
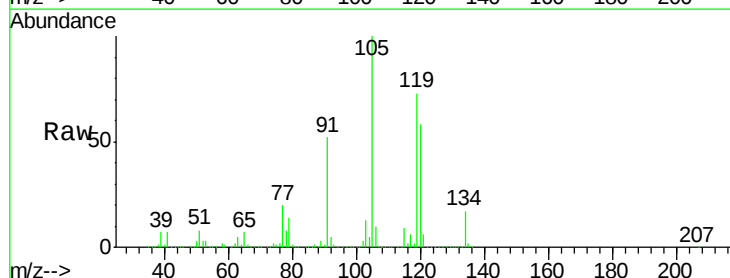
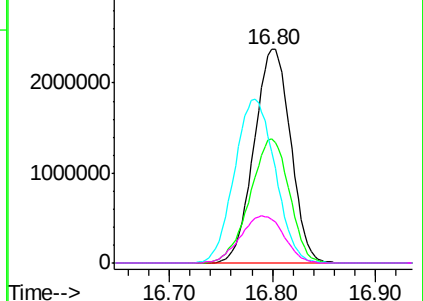
77 20.2 18.8 28.2

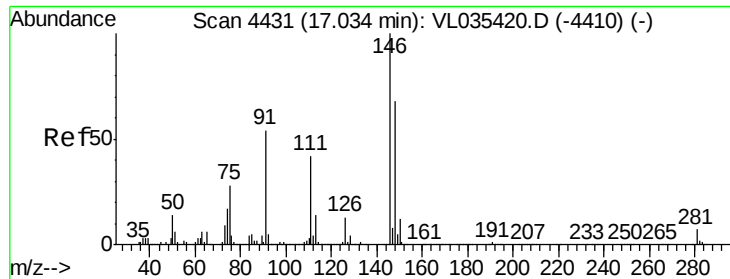
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 8.577 ppbv

RT: 17.03 min Scan# 4431

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0817ABS01

Tot Ion:146 Resp: 4558742

Ion Ratio Lower Upper

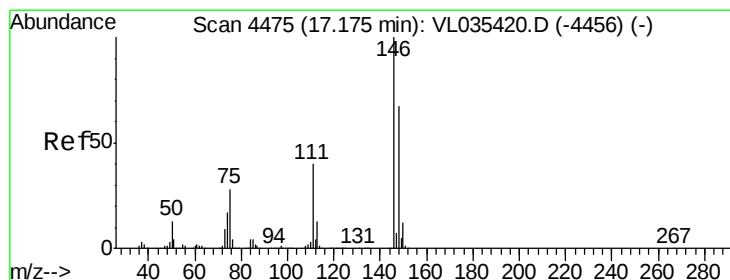
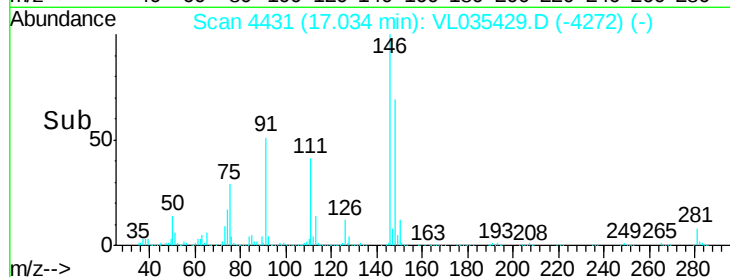
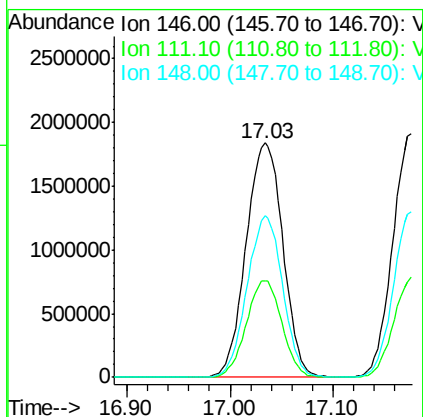
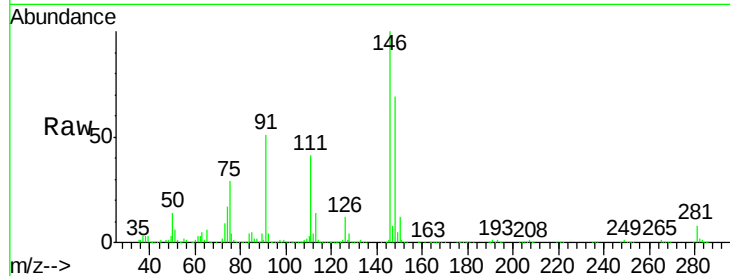
146 100

111 39.8 25.6 76.8

148 66.7 32.3 96.9

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#76

1,4-Dichlorobenzene

Concen: 8.859 ppbv

RT: 17.18 min Scan# 4475

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

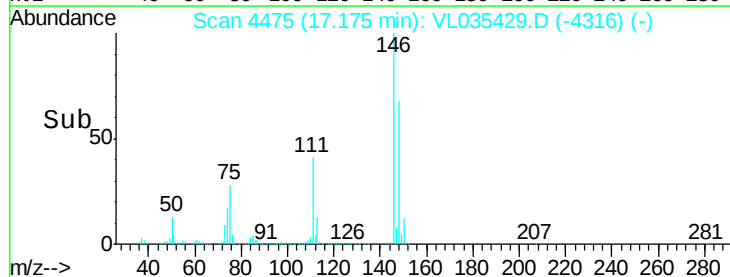
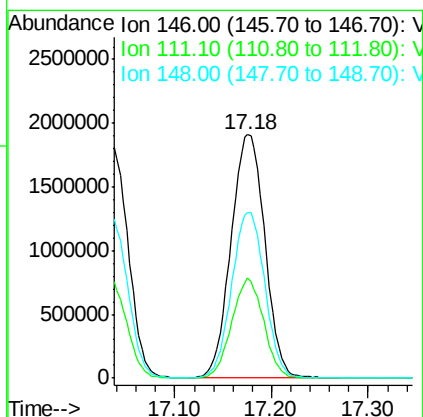
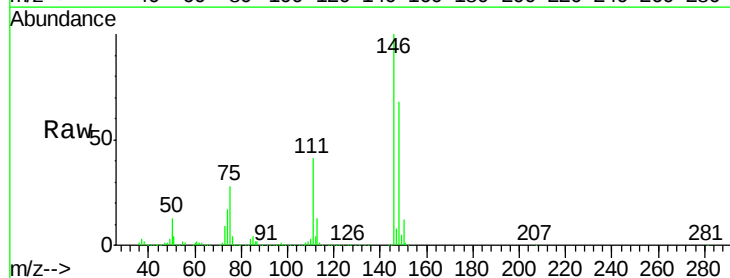
Tgt Ion:146 Resp: 4640257

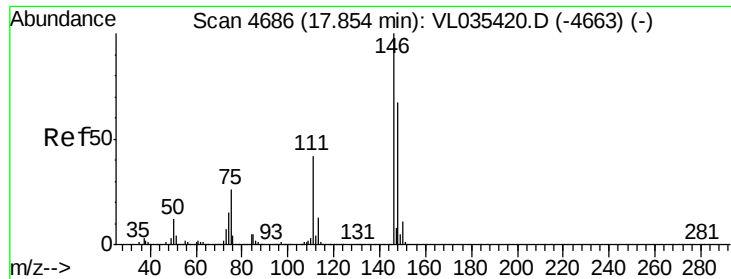
Ion Ratio Lower Upper

146 100

111 38.7 24.8 74.4

148 67.0 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 8.747 ppbv

RT: 17.85 min Scan# 4686

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0817ABS01

Tot Ion:146 Resp: 4553738

Ion Ratio Lower Upper

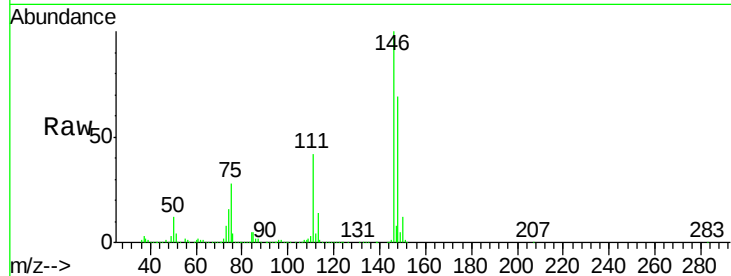
146 100

111 40.9 26.3 78.9

148 66.4 32.0 96.0

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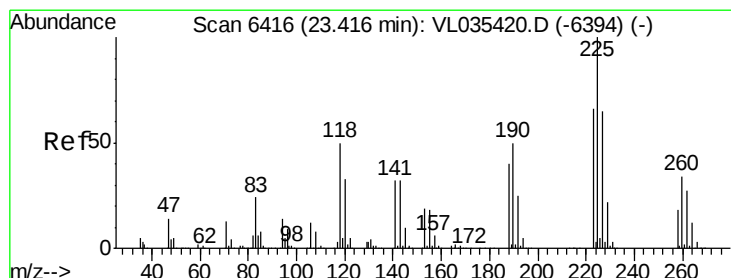
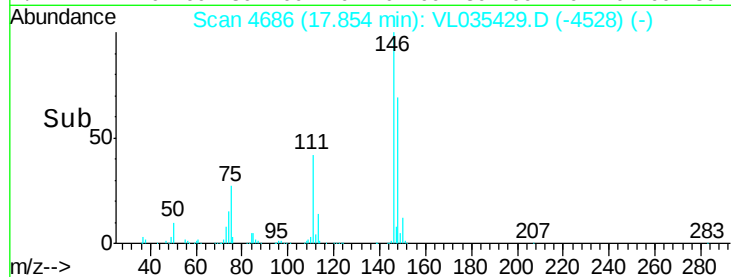
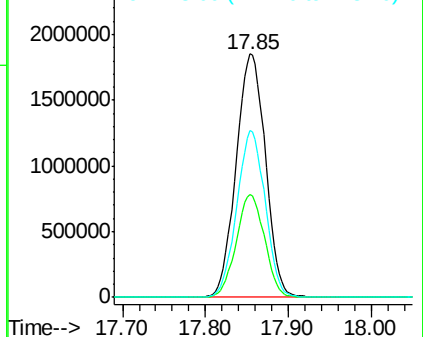
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 8.545 ppbv

RT: 23.42 min Scan# 6417

Delta R.T. 0.01 min

Lab File: VL035429.D

Acq: 17 Aug 2020 22:26

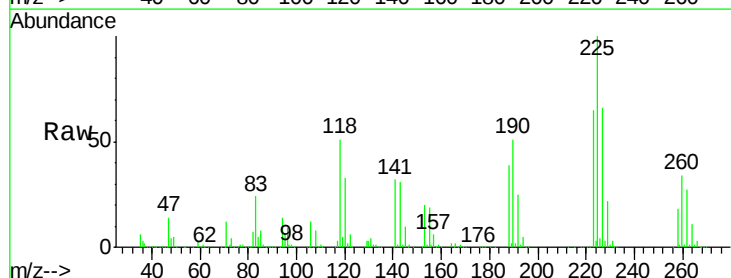
Tgt Ion:225 Resp: 3517093

Ion Ratio Lower Upper

225 100

223 64.6 50.3 75.5

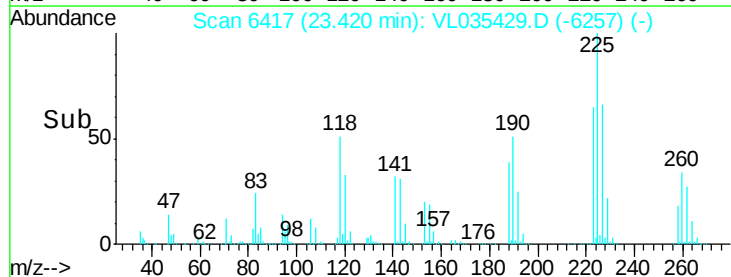
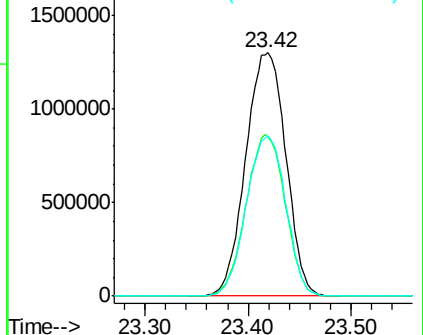
227 64.7 51.0 76.6

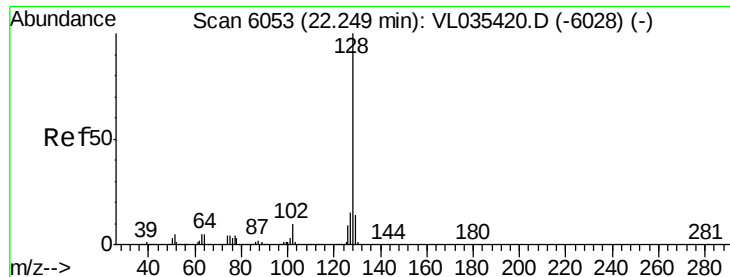


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





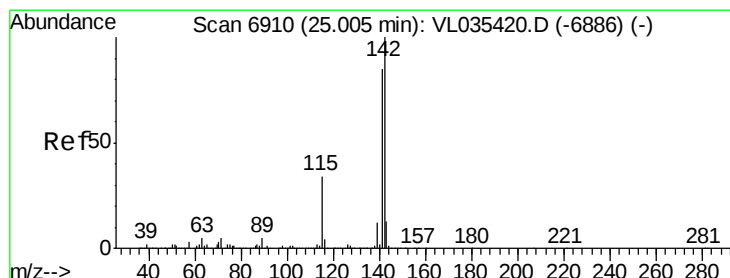
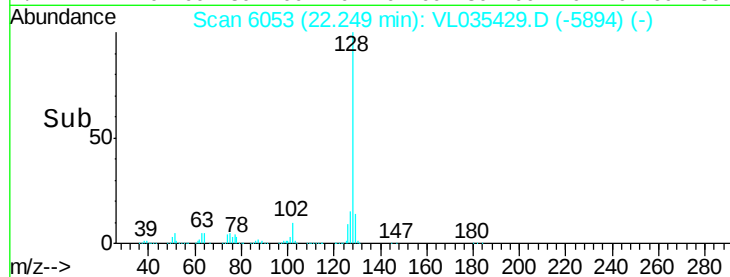
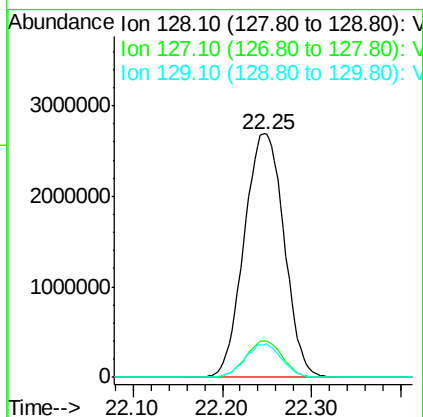
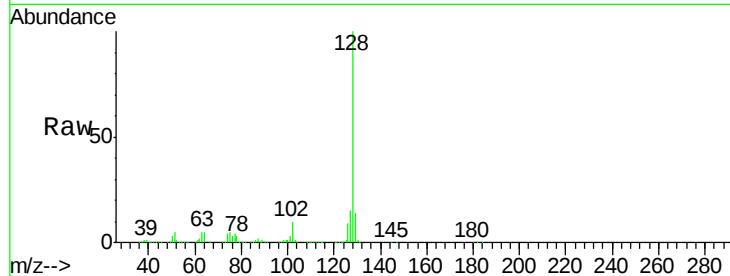
#79  
Naphthalene  
Concen: 8.656 ppbv  
RT: 22.25 min Scan# 6053  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0817ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 15.0  | 11.4  | 17.0  |
| 129     | 13.7  | 9.5   | 14.3  |

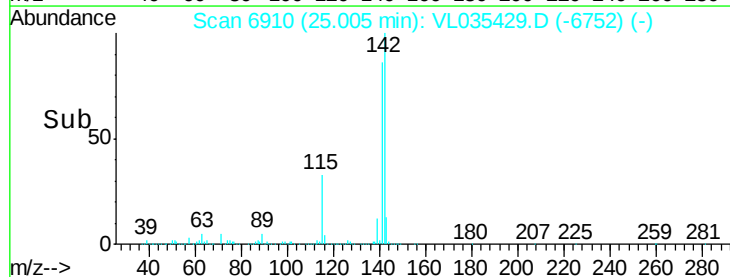
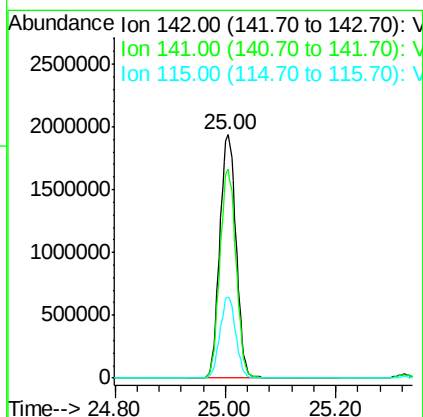
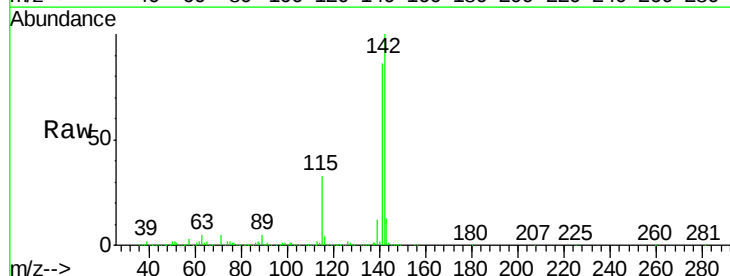
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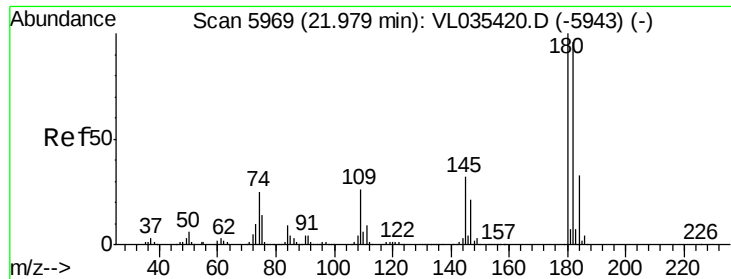
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#80  
Naphthalene, 2-methyl-  
Concen: 9.882 ppbv  
RT: 25.00 min Scan# 6910  
Delta R.T. 0.01 min  
Lab File: VL035429.D  
Acq: 17 Aug 2020 22:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 84.4  | 67.1  | 100.7 |
| 115     | 32.1  | 36.1  | 54.1# |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 8.844 ppbv  
 RT: 21.98 min Scan# 5968  
 Delta R.T. 0.01 min  
 Lab File: VL035429.D  
 Acq: 17 Aug 2020 22:26

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0817ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.7  | 76.6  | 115.0 |
| 184     | 32.1  | 24.8  | 37.2  |

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