

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061621\  
 Data File : VL037171.D  
 Acq On : 16 Jun 2021 14:27  
 Operator : SY/AP  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL061621

Manual Integrations  
 APPROVED

MMDadoda  
 6/17/2021 5:37:29 PM

Quant Time: Jun 16 15:55:30 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jun 16 15:55:30 2021  
 QLast Update : Wed Jun 16 14:06:32 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 1554410  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 4639615  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 4254931m | 10.00 | ppbv  | 0.00     |

## System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.43  | 95    | 3308249  | 10.26    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.60% |

## Target Compounds

|                                |      |     |         |             | Ovalue |
|--------------------------------|------|-----|---------|-------------|--------|
| 2) Dichlorodifluoromethane     | 3.05 | 85  | 2367459 | 8.758 ppbv  | 98     |
| 3) Chlorodifluoromethane       | 2.99 | 51  | 2676620 | 8.856 ppbv  | 100    |
| 4) Chloromethane               | 3.14 | 50  | 933178  | 9.264 ppbv  | 98     |
| 5) Vinyl Chloride              | 3.26 | 62  | 992840  | 8.968 ppbv  | 99     |
| 6) Bromomethane                | 3.47 | 94  | 615966  | 9.326 ppbv  | 97     |
| 7) Chloroethane                | 3.56 | 64  | 363659  | 9.190 ppbv  | 94     |
| 8) Dichlorotetrafluoroethane   | 3.19 | 85  | 2482353 | 8.951 ppbv  | 99     |
| 9) Propene                     | 3.01 | 41  | 868330  | 8.985 ppbv  | 99     |
| 10) Heptane                    | 8.13 | 43  | 2184087 | 9.331 ppbv  | 99     |
| 11) Trichlorofluoromethane     | 3.95 | 101 | 2575682 | 8.929 ppbv  | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49 | 101 | 1846958 | 9.083 ppbv  | 99     |
| 13) Ethanol                    | 3.62 | 45  | 118984  | 7.959 ppbv  | 58     |
| 14) Bromoethene                | 3.74 | 108 | 795980  | 9.379 ppbv  | 99     |
| 15) Acetone                    | 3.85 | 43  | 1326977 | 7.570 ppbv  | 97     |
| 16) 1,3-Butadiene              | 3.33 | 39  | 975267  | 9.411 ppbv  | 99     |
| 17) tert-Butyl alcohol         | 4.29 | 59  | 1608151 | 9.927 ppbv  | 100    |
| 18) 1,1-Dichloroethene         | 4.29 | 96  | 840937  | 9.333 ppbv  | 99     |
| 19) Isopropyl Alcohol          | 3.97 | 45  | 956353  | 9.008 ppbv  | 100    |
| 20) Methylene Chloride         | 4.35 | 84  | 740717m | 7.058 ppbv  |        |
| 21) Allyl Chloride             | 4.41 | 41  | 1193059 | 9.030 ppbv  | 97     |
| 22) trans-1,2-Dichloroethene   | 4.89 | 96  | 849952  | 9.533 ppbv  | 98     |
| 23) Vinyl Acetate              | 5.08 | 43  | 2240202 | 8.913 ppbv  | 99     |
| 24) 1,1-Dichloroethane         | 5.01 | 63  | 1846437 | 9.124 ppbv  | 100    |
| 25) Ethyl Acetate              | 5.68 | 43  | 3511994 | 9.255 ppbv  | 99     |
| 26) Hexane                     | 5.69 | 57  | 1669334 | 8.704 ppbv  | 100    |
| 27) Carbon Disulfide           | 4.56 | 76  | 1970422 | 10.486 ppbv | 100    |
| 28) Methyl tert-Butyl Ether    | 5.04 | 73  | 2108580 | 9.145 ppbv  | 99     |
| 29) Chloroform                 | 5.76 | 83  | 2720293 | 9.182 ppbv  | 100    |
| 30) Cyclohexane                | 7.14 | 84  | 1451686 | 9.084 ppbv  | 99     |
| 31) cis-1,2-Dichloroethene     | 5.56 | 61  | 1728450 | 9.807 ppbv  | 99     |
| 32) 1,1,1-Trichloroethane      | 6.52 | 97  | 2825005 | 8.911 ppbv  | 99     |
| 34) 2-Butanone                 | 5.25 | 43  | 1619439 | 8.975 ppbv  | 100    |
| 35) Carbon Tetrachloride       | 7.02 | 117 | 3010191 | 9.673 ppbv  | 100    |
| 36) Benzene                    | 6.90 | 78  | 3475676 | 9.264 ppbv  | 99     |
| 37) 1,2-Dichloroethane         | 6.31 | 62  | 2027476 | 9.303 ppbv  | 99     |
| 38) Trichloroethene            | 7.84 | 130 | 1526815 | 8.561 ppbv  | 98     |
| 39) 1,2-Dichloropropane        | 7.62 | 63  | 1333276 | 9.564 ppbv  | 99     |
| 40) 1,4-Dioxane                | 7.84 | 88  | 348577  | 9.118 ppbv  | 86     |
| 41) Tetrahydrofuran            | 6.06 | 42  | 807826  | 9.638 ppbv  | 99     |
| 42) Bromodichloromethane       | 7.80 | 83  | 2970524 | 9.880 ppbv  | 98     |
| 43) Methyl Methacrylate        | 8.02 | 69  | 1283762 | 9.908 ppbv  | 100    |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL061621

Manual Integrations  
 APPROVED

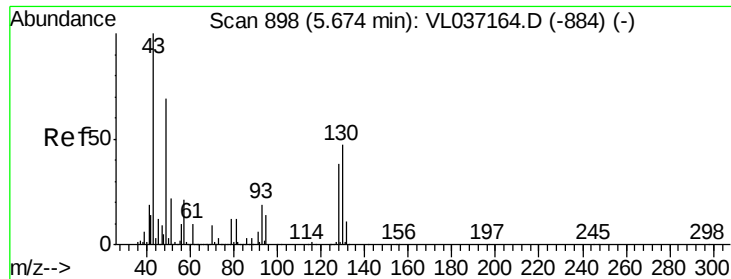
MMDadoda  
 6/17/2021 5:37:29 PM

Quant Time: Jun 16 15:55:30 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jun 16 15:55:30 2021  
 QLast Update : Wed Jun 16 14:06:32 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.88  | 57   | 5683527  | 8.996  | ppbv  | 100      |
| 45) t-1,3-Dichloropropene     | 9.29  | 75   | 1305832  | 11.423 | ppbv  | 98       |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 1671695  | 10.690 | ppbv  | 96       |
| 47) 1,1,2-Trichloroethane     | 9.48  | 97   | 1478884  | 9.298  | ppbv  | 97       |
| 48) Dibromochloromethane      | 10.31 | 129  | 2647520  | 10.545 | ppbv  | 99       |
| 49) Bromoform                 | 13.05 | 173  | 2166165  | 11.580 | ppbv  | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.75  | 43   | 2377376  | 9.592  | ppbv  | 98       |
| 51) 2-Hexanone                | 10.14 | 43   | 1223411  | 10.145 | ppbv  | 97       |
| 52) Tetrachloroethene         | 11.23 | 164  | 1441162  | 8.267  | ppbv  | 99       |
| 53) Toluene                   | 9.81  | 91   | 4154779  | 9.271  | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 10.62 | 107  | 2216933  | 9.699  | ppbv  | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.13 | 131  | 1778533  | 9.560  | ppbv  | 97       |
| 57) Chlorobenzene             | 12.16 | 112  | 3185429  | 9.231  | ppbv  | 96       |
| 58) Ethyl Benzene             | 12.72 | 91   | 5509370  | 9.406  | ppbv  | 100      |
| 59) m/p-Xylene                | 13.01 | 91   | 9260840m | 18.657 | ppbv  |          |
| 60) o-Xylene                  | 13.70 | 91   | 4409502  | 9.329  | ppbv  | 100      |
| 61) Styrene                   | 13.54 | 104  | 2545575  | 10.435 | ppbv  | 98       |
| 62) Isopropylbenzene          | 14.68 | 105  | 6171181  | 9.182  | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.69 | 83   | 2953895  | 9.386  | ppbv  | 100      |
| 64) n-propylbenzene           | 15.57 | 120  | 1659365  | 9.859  | ppbv  | 98       |
| 65) tert-Butylbenzene         | 16.75 | 119  | 5620611  | 9.429  | ppbv  | 100      |
| 66) Benzyl Chloride           | 17.00 | 91   | 279437   | 11.062 | ppbv  | 98       |
| 67) sec-Butylbenzene          | 17.30 | 105  | 7504152  | 9.441  | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 17.66 | 119  | 6547482  | 9.752  | ppbv  | 100      |
| 70) n-Butylbenzene            | 18.56 | 91   | 6206043  | 9.987  | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 15.46 | 91   | 4539862  | 9.661  | ppbv  | 99       |
| 72) 4-Ethyltoluene            | 15.85 | 105  | 5281220  | 9.836  | ppbv  | 98       |
| 73) 1,3,5-Trimethylbenzene    | 16.01 | 105  | 4907779  | 9.456  | ppbv  | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.77 | 105  | 5114841  | 9.564  | ppbv  | 98       |
| 75) 1,3-Dichlorobenzene       | 17.00 | 146  | 3201911  | 9.847  | ppbv  | 100      |
| 76) 1,4-Dichlorobenzene       | 17.15 | 146  | 3039274  | 9.358  | ppbv  | 100      |
| 77) 1,2-Dichlorobenzene       | 17.83 | 146  | 3036512  | 9.653  | ppbv  | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.39 | 225  | 2034047  | 7.521  | ppbv  | 99       |
| 79) Naphthalene               | 22.21 | 128  | 4046110  | 9.074  | ppbv  | 98       |
| 80) Naphthalene, 2-methyl-    | 24.98 | 142  | 1349119  | 11.537 | ppbv  | 94       |
| 81) 1,2,4-Trichlorobenzene    | 21.94 | 180  | 2281900  | 8.869  | ppbv  | 98       |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL061621

Tot Ion: 49 Resp: 1554410

Ion Ratio Lower Upper

49 100

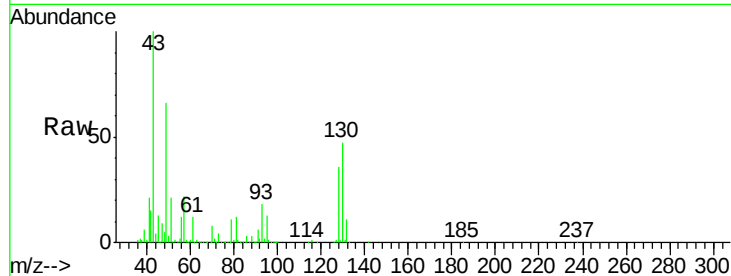
128 59.4 29.3 88.0

130 71.7 35.9 107.8

Manual Integrations  
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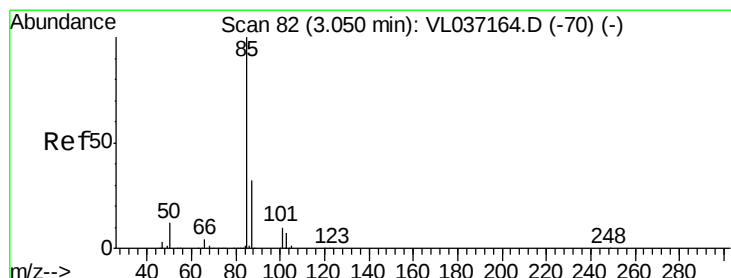
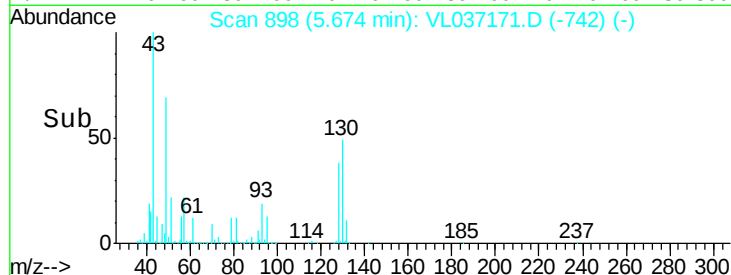
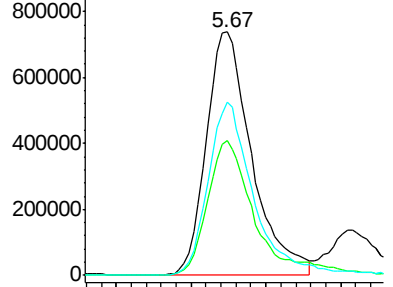
6/17/2021 5:37:29 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 8.758 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL037171.D

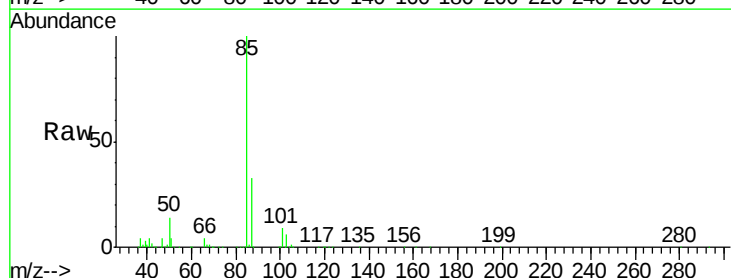
Acq: 16 Jun 2021 14:27

Tgt Ion: 85 Resp: 2367459

Ion Ratio Lower Upper

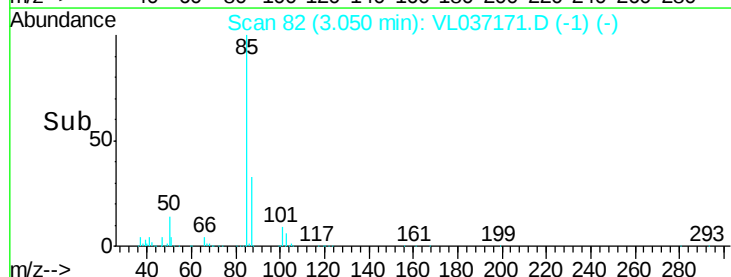
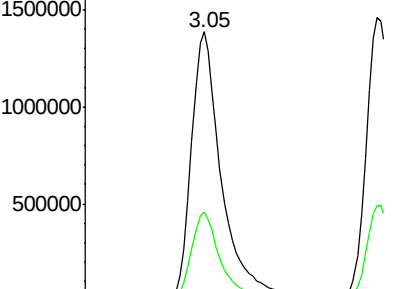
85 100

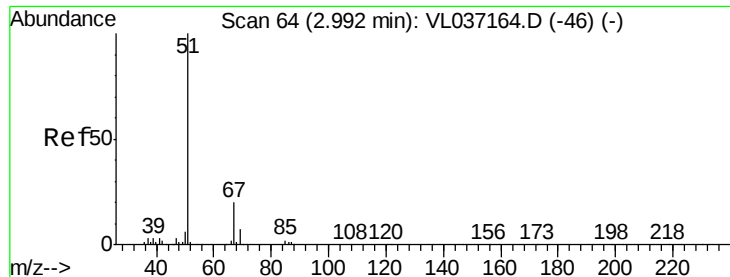
87 33.1 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.856 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

Tot Ion: 51 Resp: 2676620

Ion Ratio Lower Upper

51 100

67 19.9 15.8 23.6

Instrument :

MSVOA\_L

ClientSampleId :

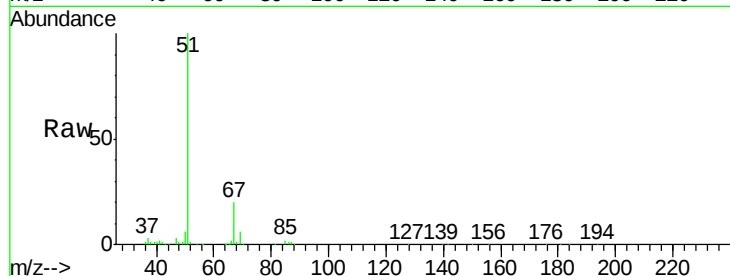
ICVVL061621

Manual Integrations

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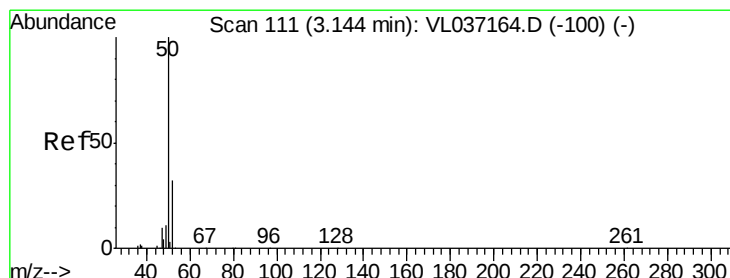
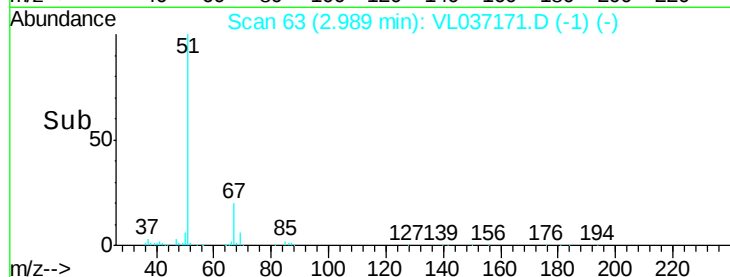
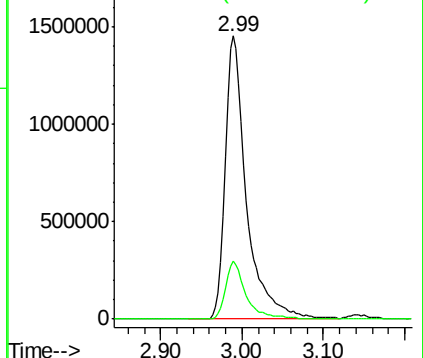
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.264 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL037171.D

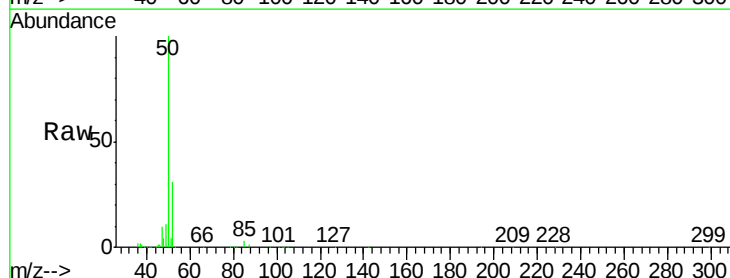
Acq: 16 Jun 2021 14:27

Tgt Ion: 50 Resp: 933178

Ion Ratio Lower Upper

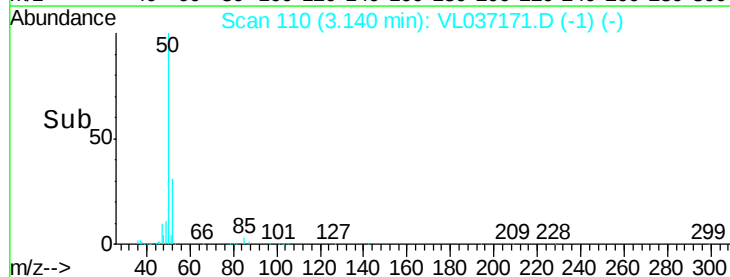
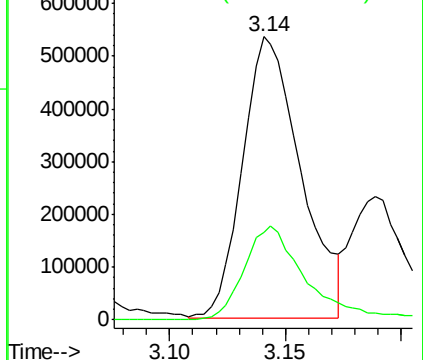
50 100

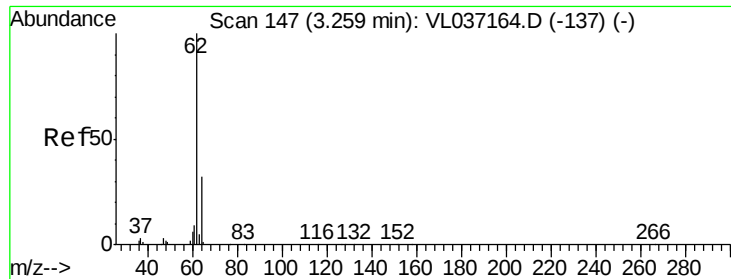
52 31.2 25.8 38.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.968 ppbv

RT: 3.26 min Scan# 147

Delta R.T. 0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL061621

Tot Ion: 62 Resp: 992840

Ion Ratio Lower Upper

62 100

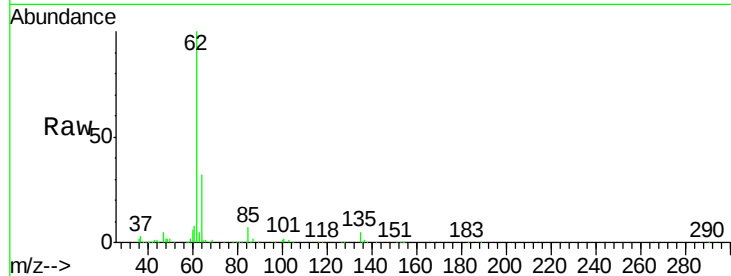
64 32.5 25.6 38.4

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

500000

400000

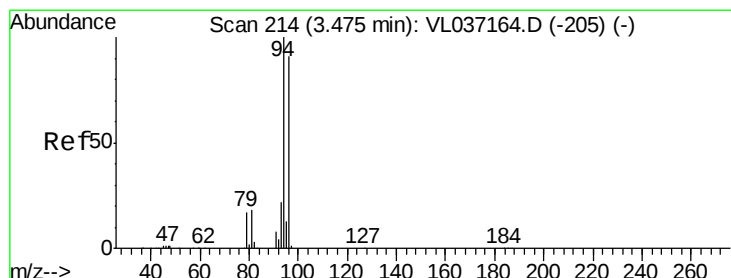
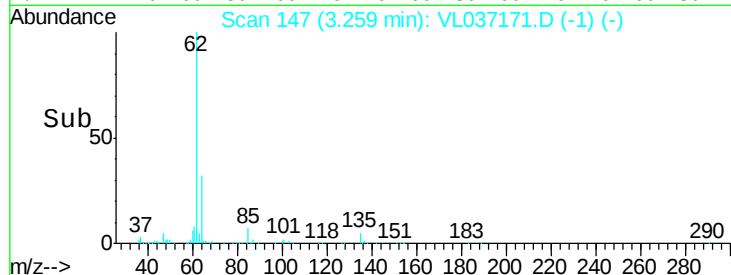
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 9.326 ppbv

RT: 3.47 min Scan# 214

Delta R.T. 0.00 min

Lab File: VL037171.D

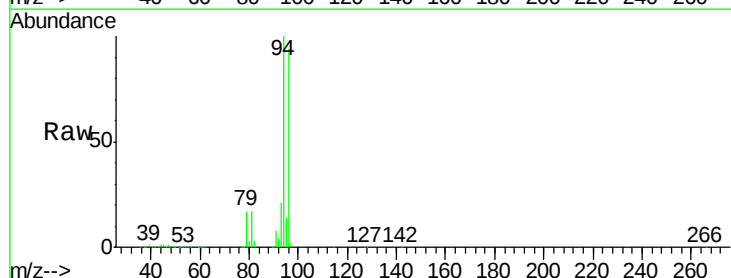
Acq: 16 Jun 2021 14:27

Tgt Ion: 94 Resp: 615966

Ion Ratio Lower Upper

94 100

96 93.6 72.6 108.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.47

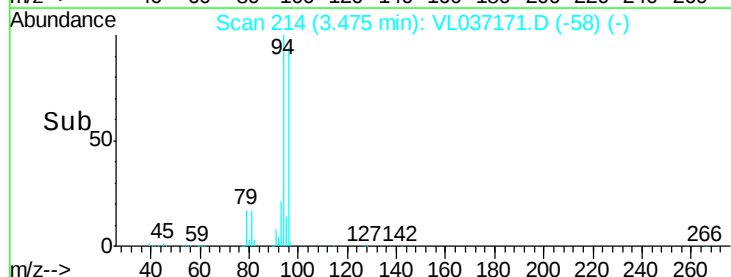
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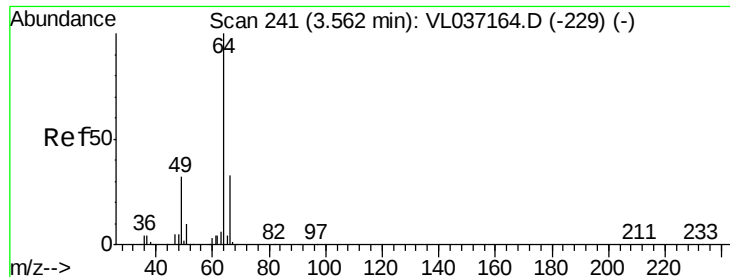
200000

100000

0

Time-->





#7

Chloroethane

Concen: 9.190 ppbv

RT: 3.56 min Scan# 240

Delta R.T. -0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL061621

Tot Ion: 64 Resp: 363659

Ion Ratio Lower Upper

64 100

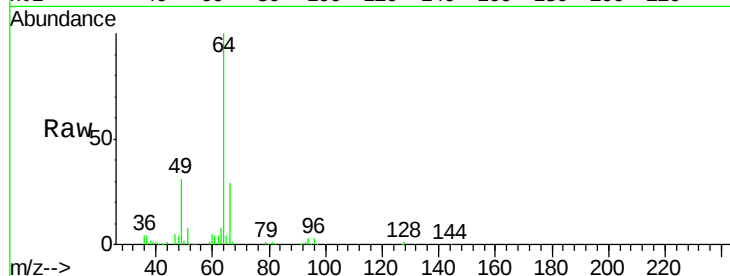
66 29.4 26.2 39.4

Manual Integrations

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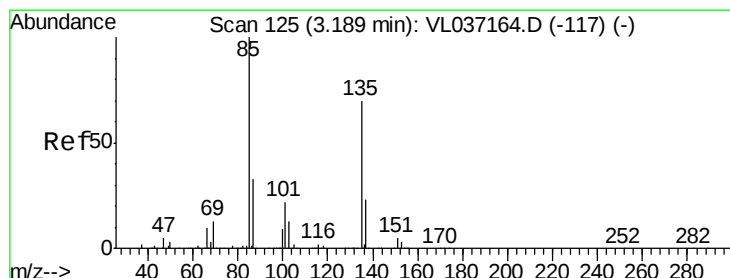
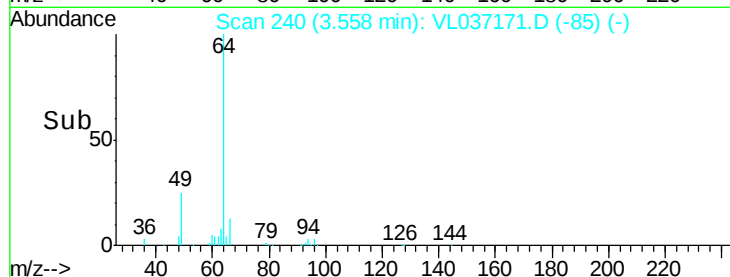
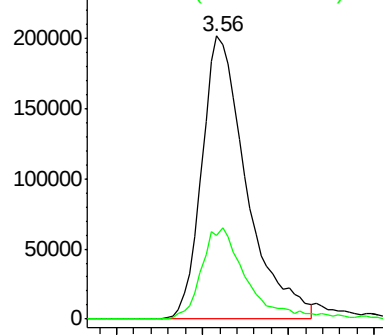
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 8.951 ppbv

RT: 3.19 min Scan# 125

Delta R.T. 0.00 min

Lab File: VL037171.D

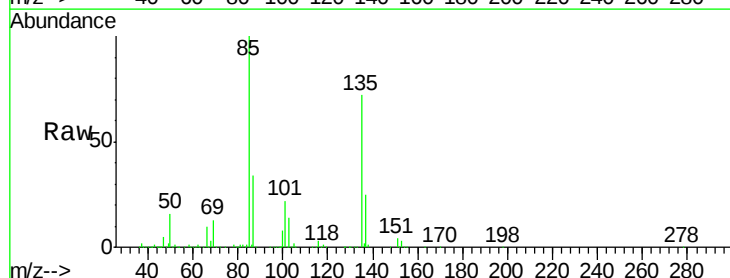
Acq: 16 Jun 2021 14:27

Tgt Ion: 85 Resp: 2482353

Ion Ratio Lower Upper

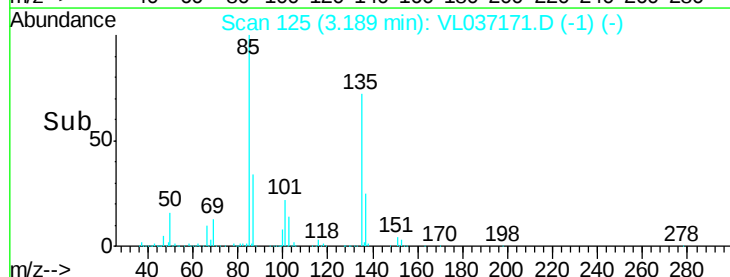
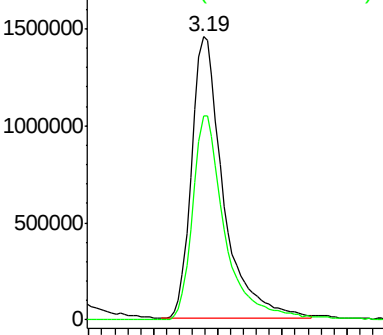
85 100

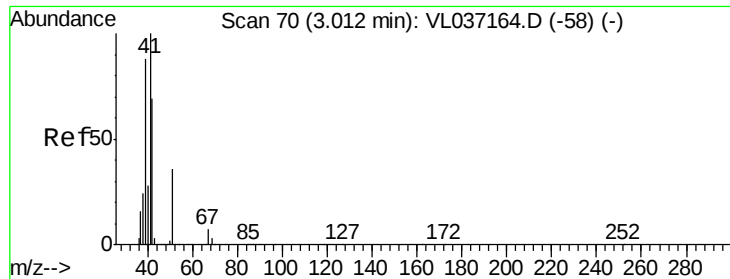
135 74.9 60.4 90.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 8.985 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL061621

Tot Ion: 41 Resp: 868330

Ion Ratio Lower Upper

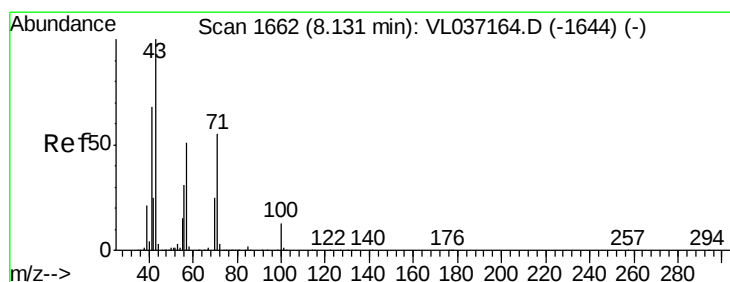
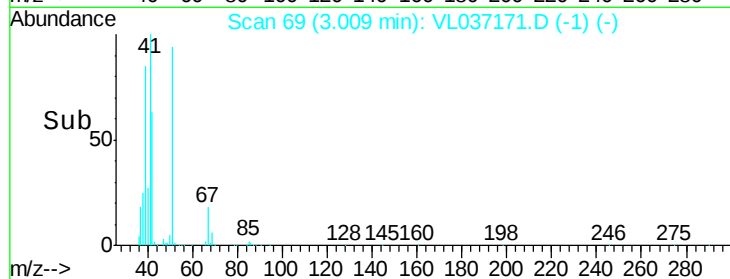
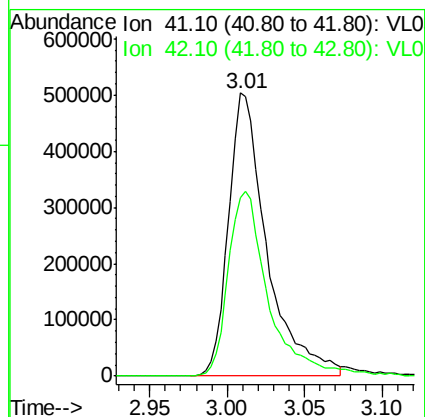
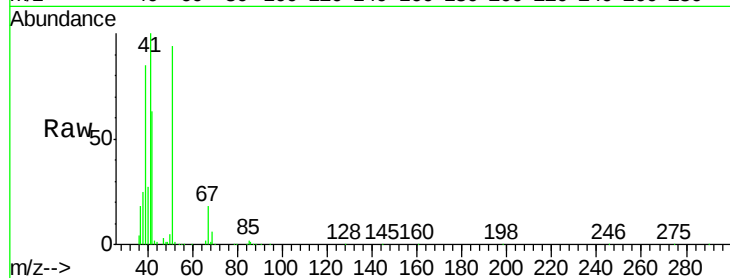
41 100

42 68.5 54.5 81.7

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#10

Heptane

Concen: 9.331 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.00 min

Lab File: VL037171.D

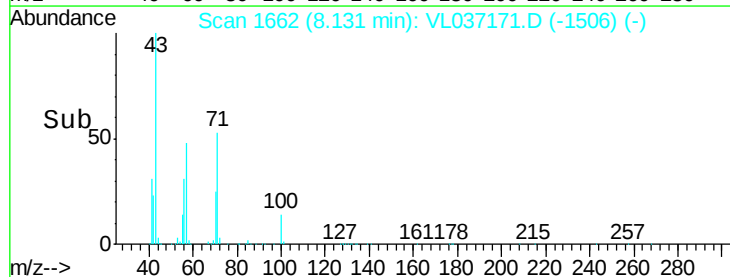
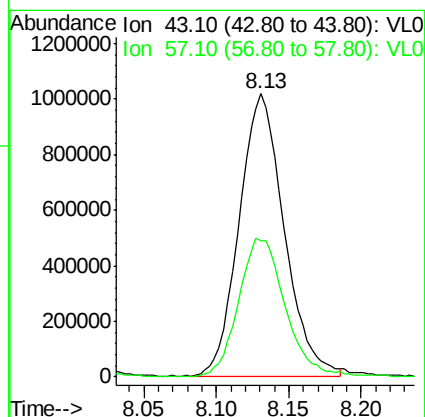
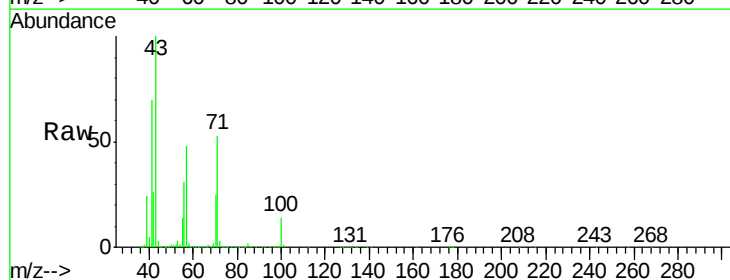
Acq: 16 Jun 2021 14:27

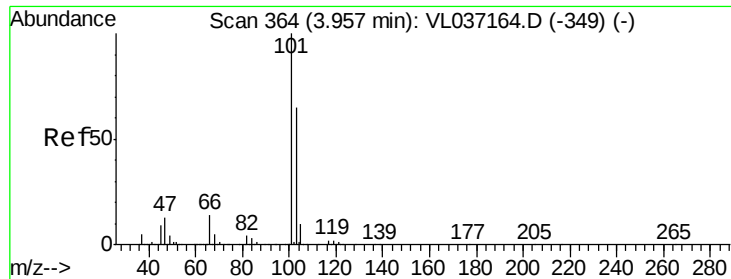
Tgt Ion: 43 Resp: 2184087

Ion Ratio Lower Upper

43 100

57 51.6 40.6 61.0





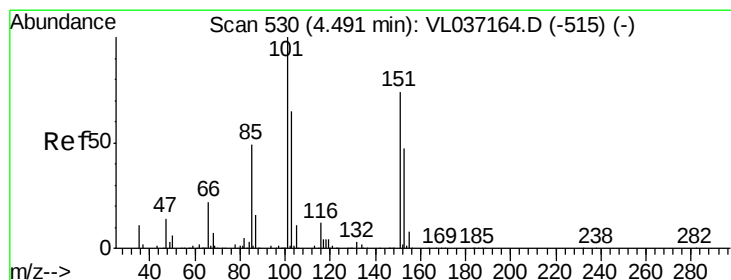
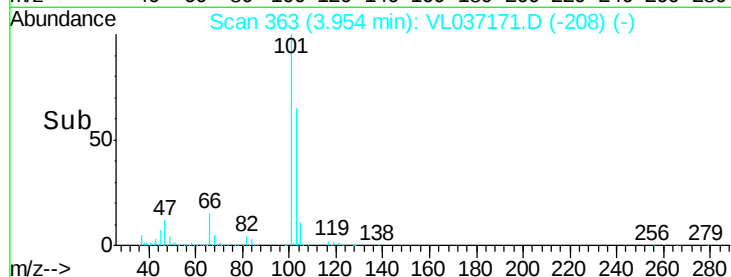
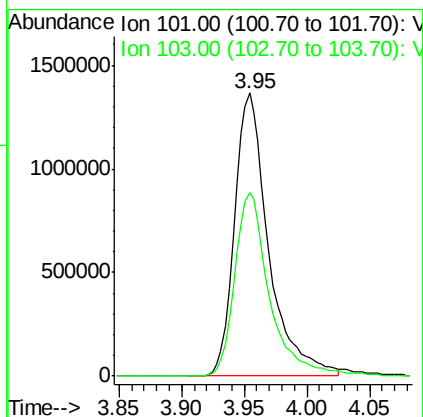
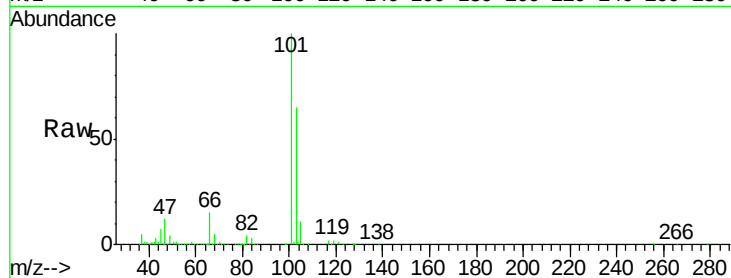
#11  
 Trichlorofluoromethane  
 Concen: 8.929 ppbv  
 RT: 3.95 min Scan# 363  
 Delta R.T. -0.00 min  
 Lab File: VL037171.D  
 Acq: 16 Jun 2021 14:27

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL061621

Tot Ion:101 Resp: 2575682  
 Ion Ratio Lower Upper  
 101 100  
 103 64.7 52.2 78.4

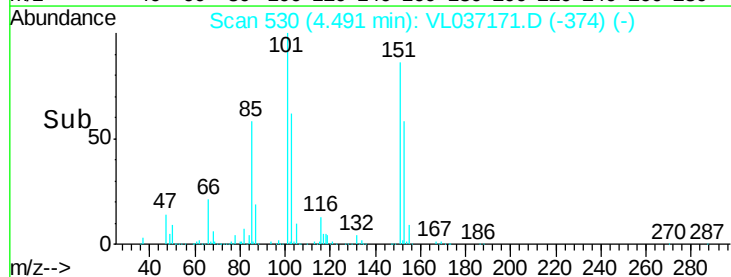
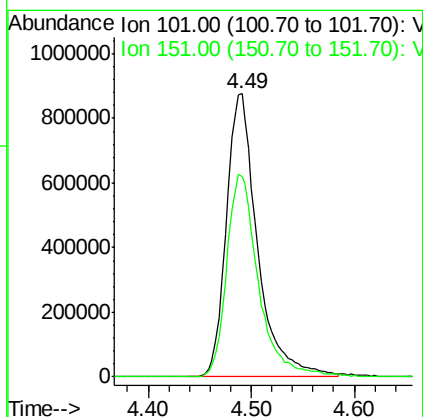
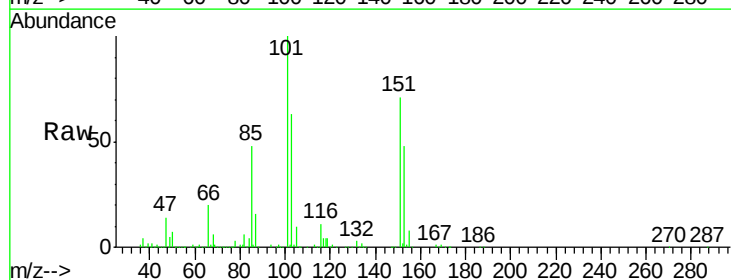
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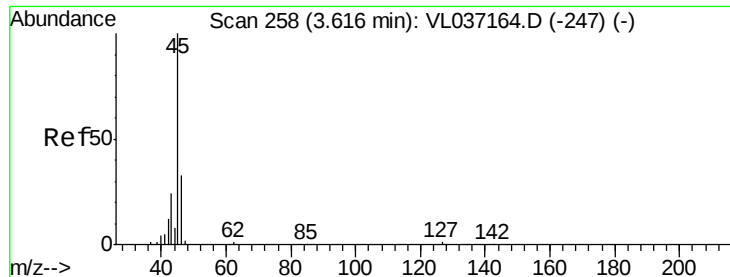
MMDadoda  
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#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.083 ppbv  
 RT: 4.49 min Scan# 530  
 Delta R.T. 0.00 min  
 Lab File: VL037171.D  
 Acq: 16 Jun 2021 14:27

Tgt Ion:101 Resp: 1846958  
 Ion Ratio Lower Upper  
 101 100  
 151 73.3 59.1 88.7





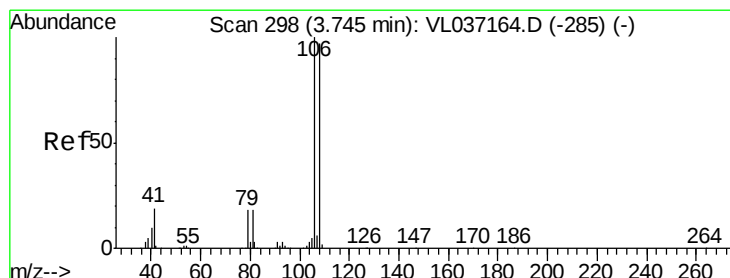
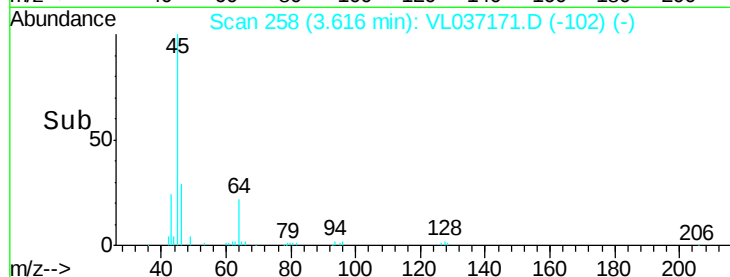
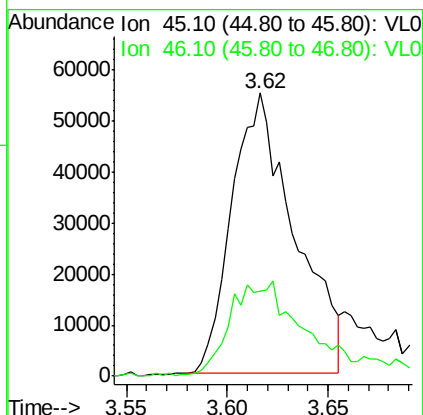
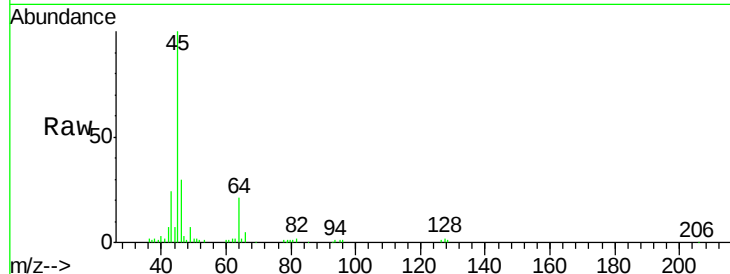
#13  
Ethanol  
Concen: 7.959 ppbv  
RT: 3.62 min Scan# 258  
Delta R.T. 0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL061621

| Tot Ion   | 45   | Resp  | 118984 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 46        | 47.5 | 34.2  | 137.0  |

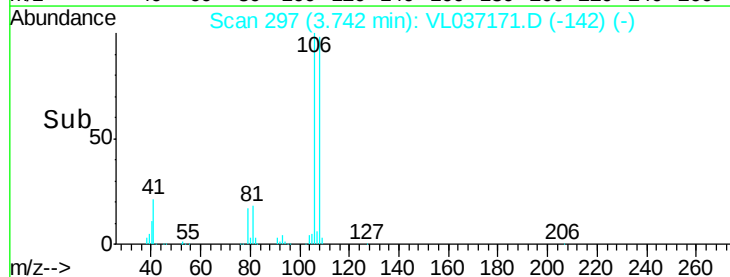
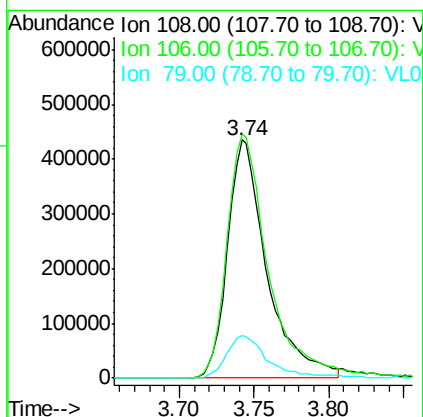
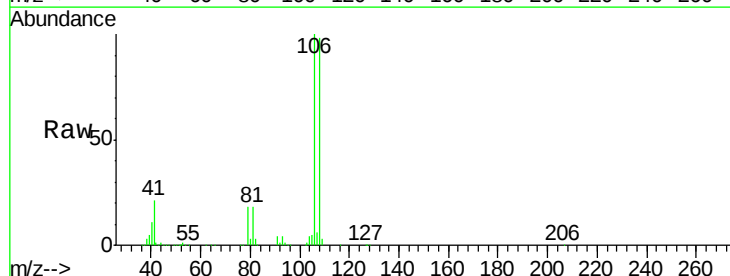
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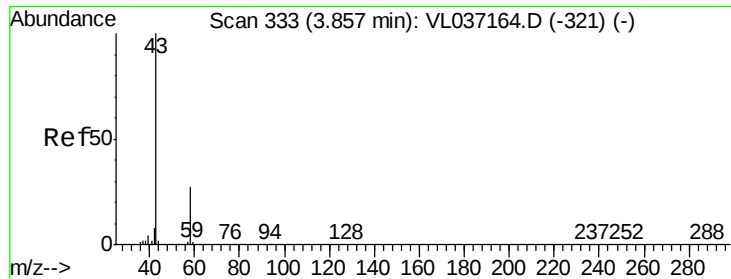
MMDadoda  
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#14  
Bromoethene  
Concen: 9.379 ppbv  
RT: 3.74 min Scan# 297  
Delta R.T. -0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

| Tgt Ion   | 108   | Resp  | 795980 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 106       | 109.4 | 86.8  | 130.2  |
| 79        | 19.3  | 15.6  | 23.4   |





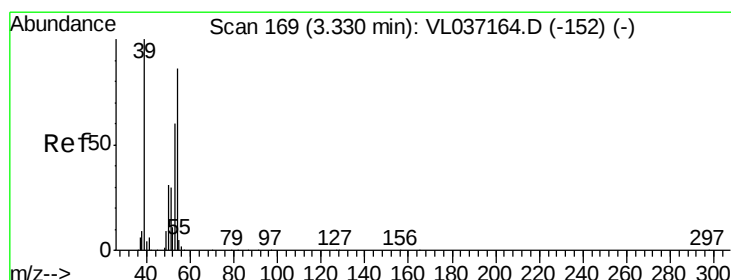
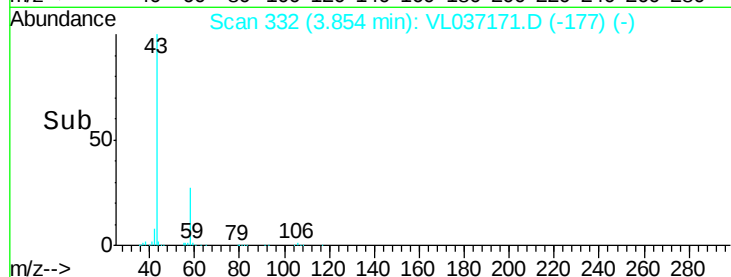
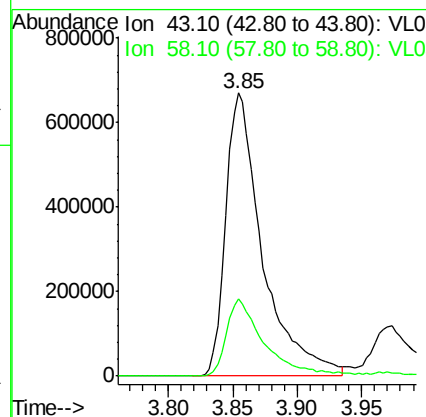
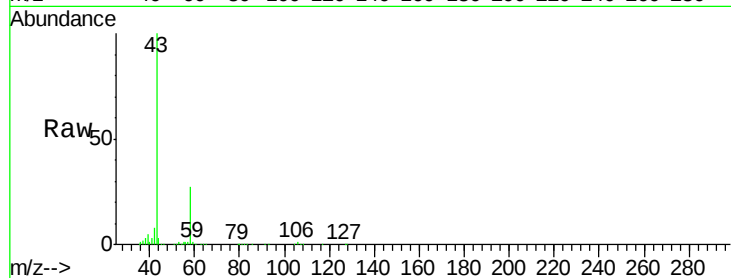
#15  
Acetone  
Concen: 7.570 ppbv  
RT: 3.85 min Scan# 332  
Delta R.T. -0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL061621

Tot Ion: 43 Resp: 1326977  
Ion Ratio Lower Upper  
43 100  
58 27.9 23.7 35.5

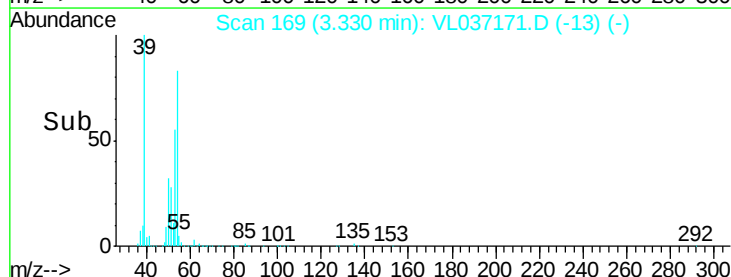
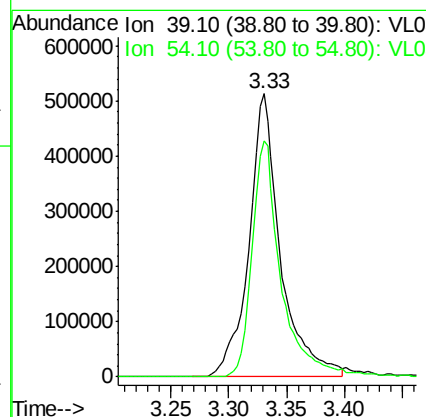
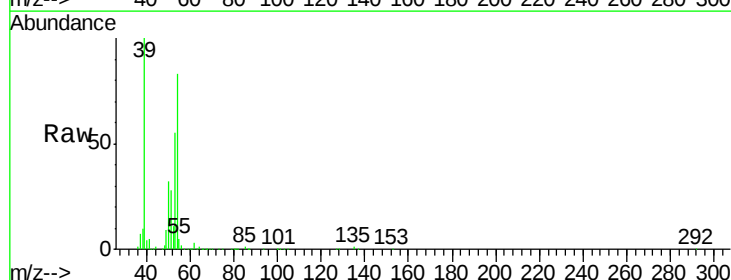
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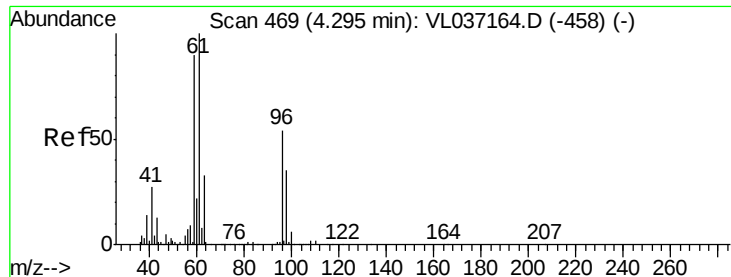
MMDadoda  
6/17/2021 5:37:29 PM



#16  
1,3-Butadiene  
Concen: 9.411 ppbv  
RT: 3.33 min Scan# 169  
Delta R.T. 0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

Tgt Ion: 39 Resp: 975267  
Ion Ratio Lower Upper  
39 100  
54 77.4 61.2 91.8





#17

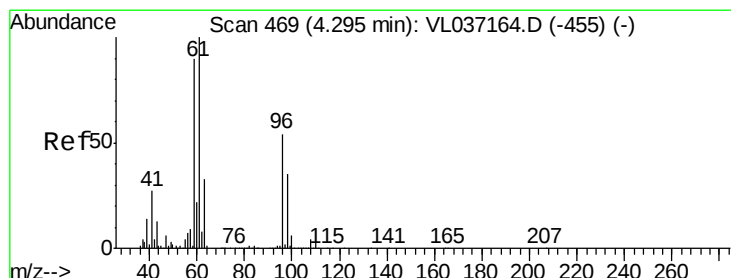
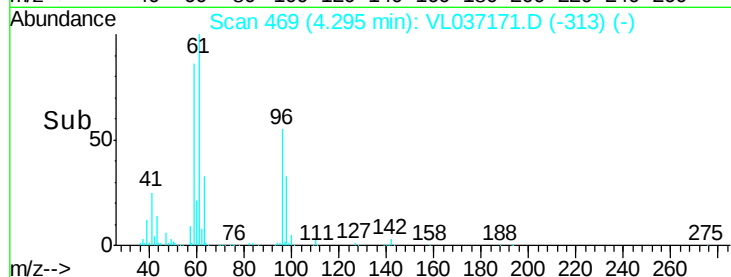
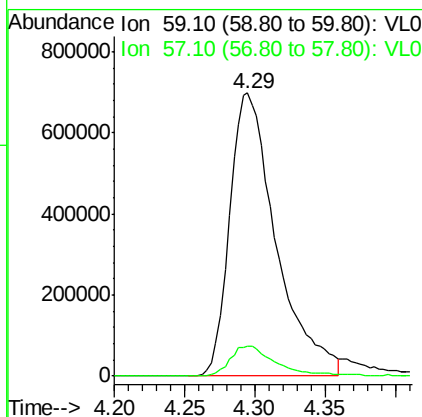
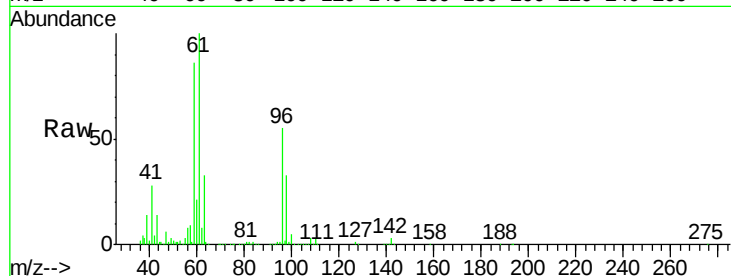
tert-Butyl alcohol  
Concen: 9.927 ppbv  
RT: 4.29 min Scan# 469  
Delta R.T. 0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL061621

Tot Ion: 59 Resp: 1608151  
Ion Ratio Lower Upper  
59 100  
57 11.1 8.8 13.2

Manual Integrations  
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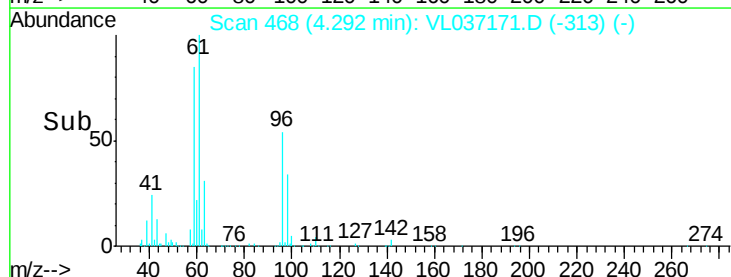
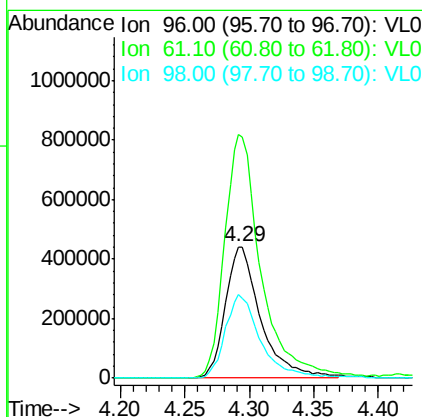
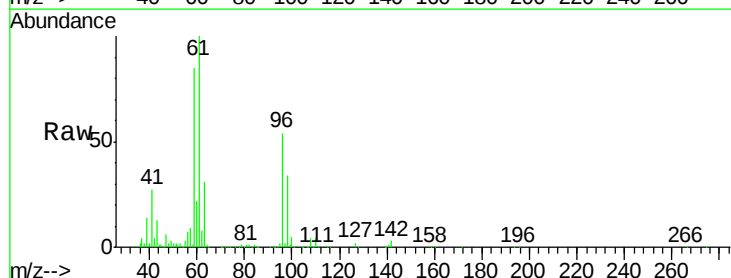
MMDadoda  
6/17/2021 5:37:29 PM

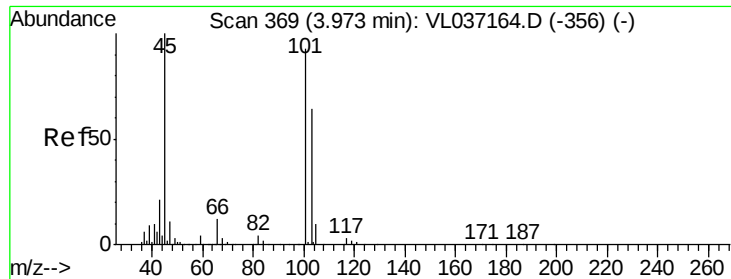


#18

1,1-Dichloroethene  
Concen: 9.333 ppbv  
RT: 4.29 min Scan# 468  
Delta R.T. -0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

Tgt Ion: 96 Resp: 840937  
Ion Ratio Lower Upper  
96 100  
61 184.9 148.6 222.8  
98 63.2 51.9 77.9





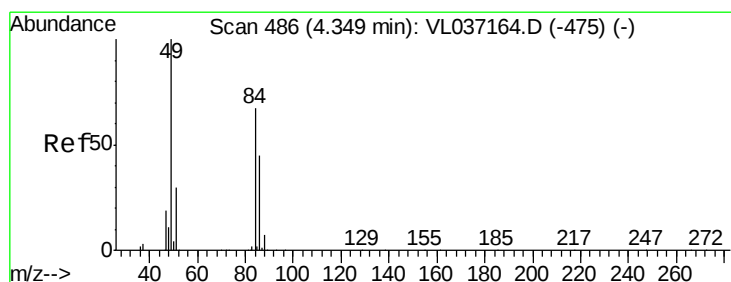
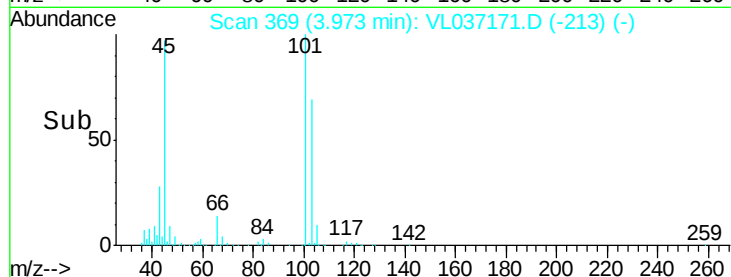
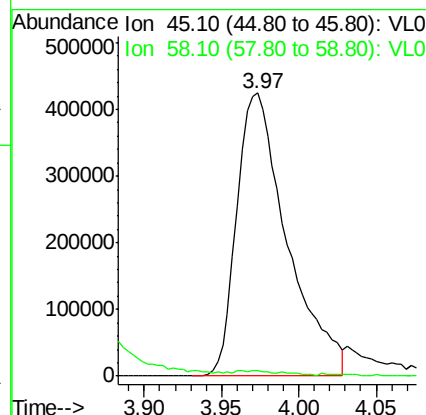
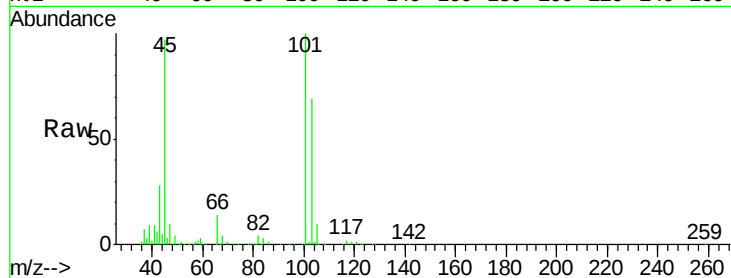
#19  
Isopropyl Alcohol  
Concen: 9.008 ppbv  
RT: 3.97 min Scan# 369  
Delta R.T. 0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL061621

Tot Ion: 45 Resp: 956353  
Ion Ratio Lower Upper  
45 100  
58 3.0 2.4 3.6

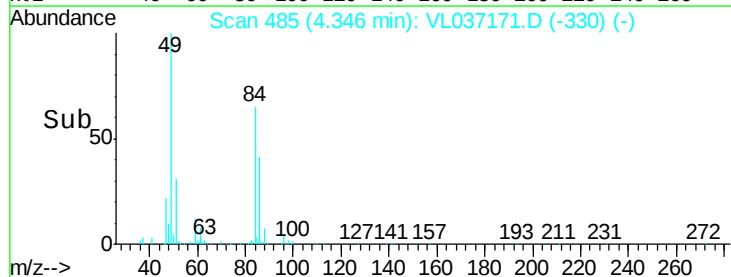
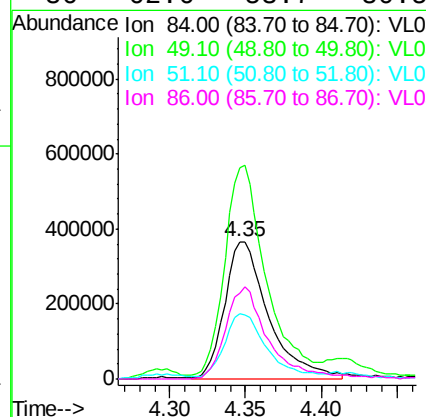
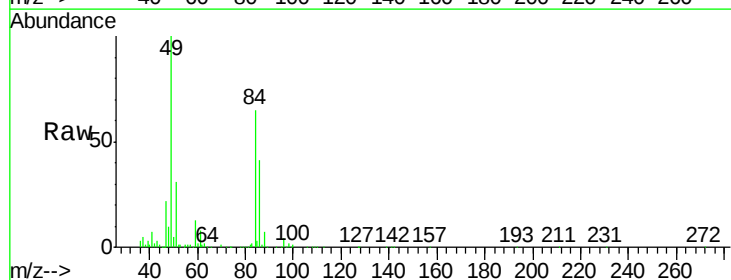
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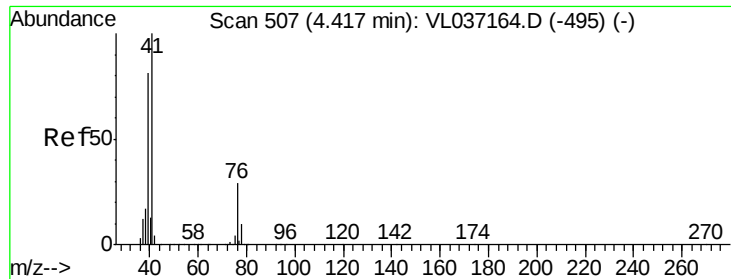
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#20  
Methylene Chloride  
Concen: 7.058 ppbv m  
RT: 4.35 min Scan# 485  
Delta R.T. -0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

Tgt Ion: 84 Resp: 740717  
Ion Ratio Lower Upper  
84 100  
49 153.9 119.7 179.5  
51 47.3 36.1 54.1  
86 62.6 53.7 80.5





#21

Allvl Chloride

Concen: 9.030 ppbv

RT: 4.41 min Scan# 506

Delta R.T. -0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

Instrument :

MSVOA\_L

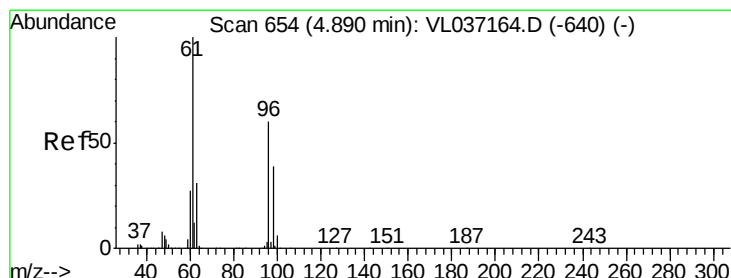
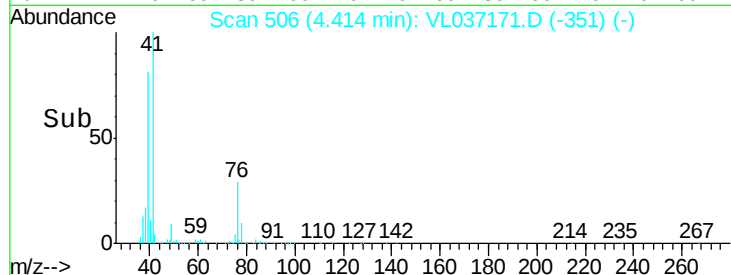
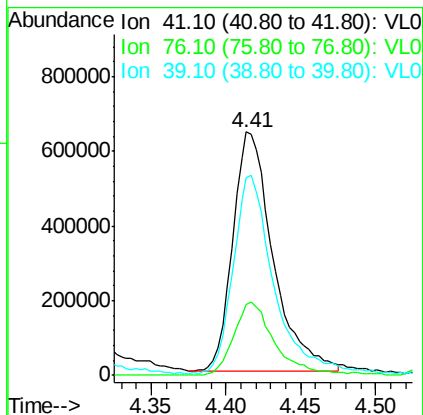
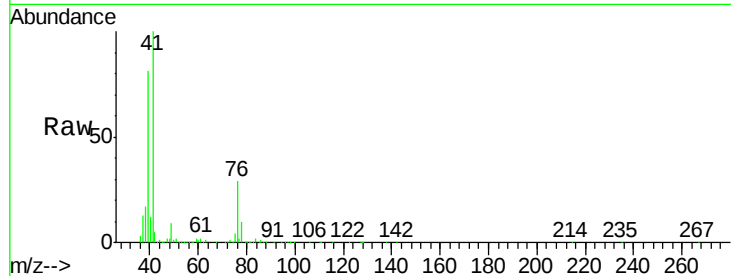
ClientSampleId :

ICVVL061621

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 41    | Resp: | 1193059 |
| Ion      | Ratio | Lower | Upper   |
| 41       | 100   |       |         |
| 76       | 32.0  | 24.6  | 37.0    |
| 39       | 85.2  | 65.4  | 98.0    |

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#22

trans-1,2-Dichloroethene

Concen: 9.533 ppbv

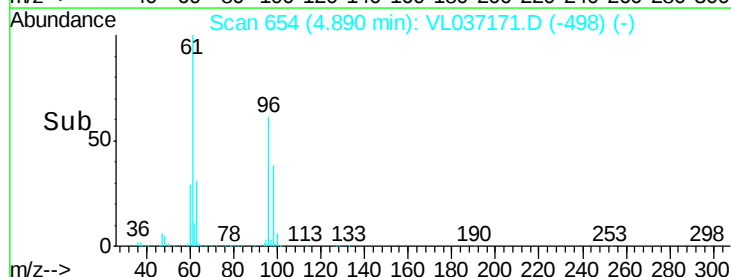
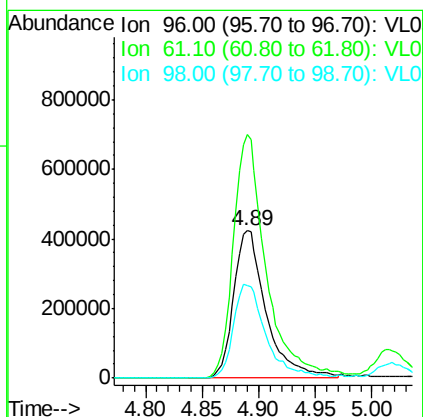
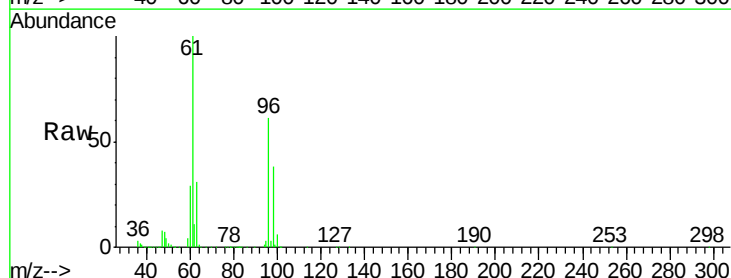
RT: 4.89 min Scan# 654

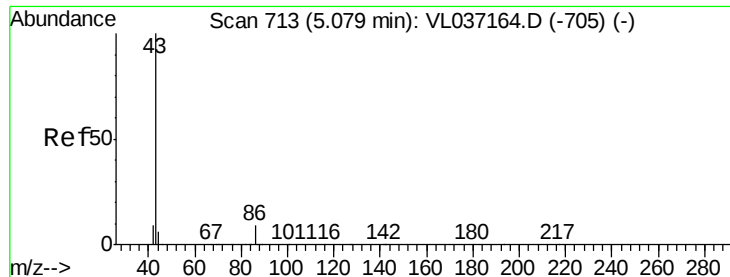
Delta R.T. 0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 849952 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 165.0 | 133.9 | 200.9  |
| 98       | 63.1  | 52.9  | 79.3   |





#23

Vinyl Acetate

Concen: 8.913 ppbv

RT: 5.08 min Scan# 713

Delta R.T. 0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL061621

Tot Ion: 43 Resp: 2240202

Ion Ratio Lower Upper

43 100

86 7.0 5.8 8.8

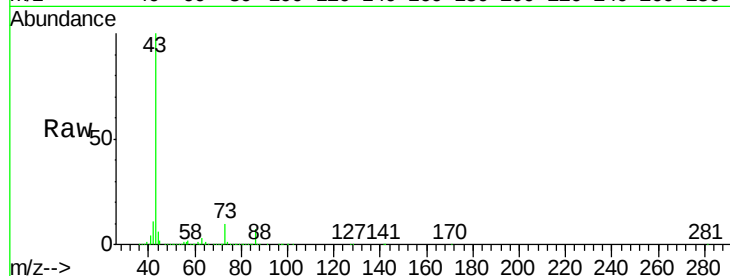
42 10.6 8.2 12.2

44 5.3 4.2 6.4

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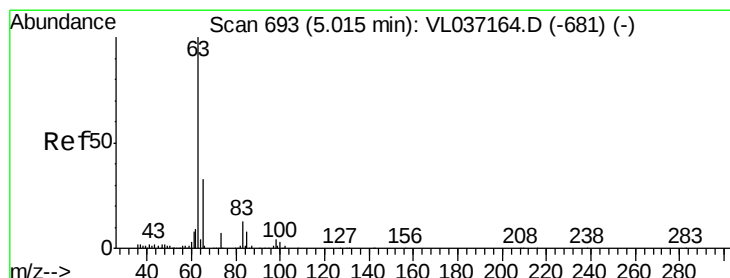
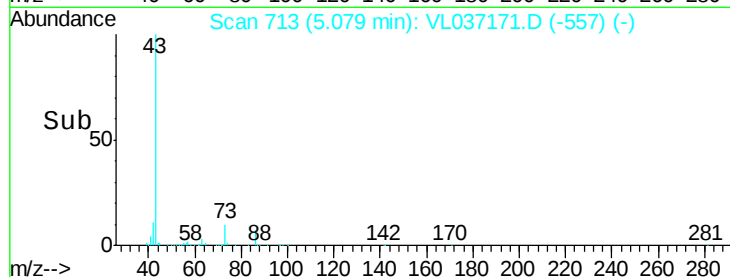
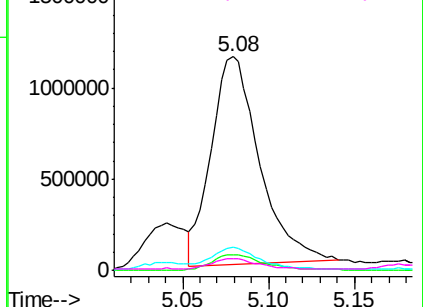


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.124 ppbv

RT: 5.01 min Scan# 693

Delta R.T. 0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

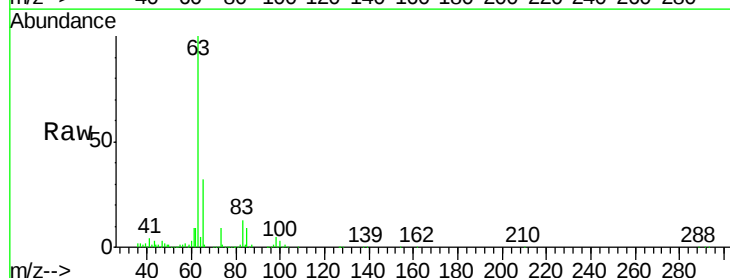
Tgt Ion: 63 Resp: 1846437

Ion Ratio Lower Upper

63 100

98 4.4 2.1 6.5

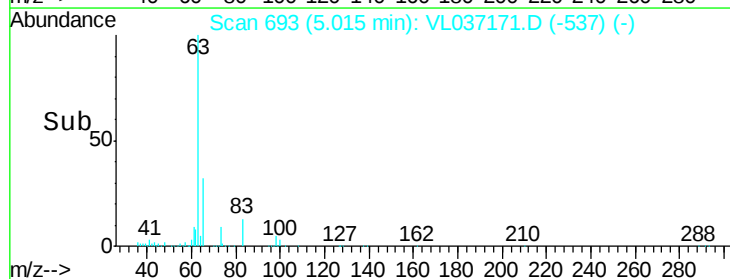
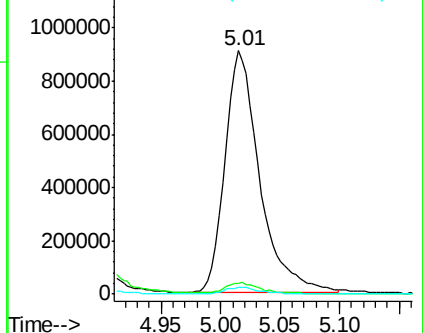
100 2.7 1.4 4.0

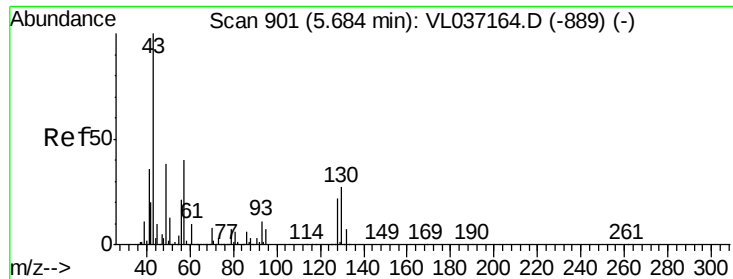


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





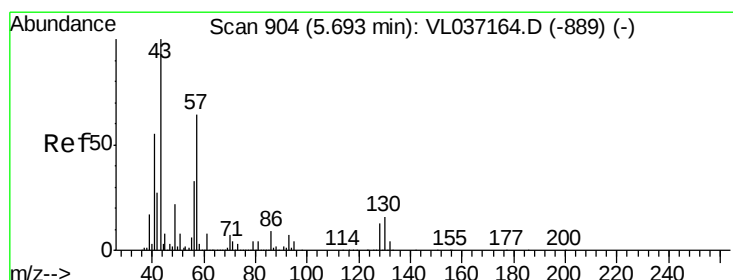
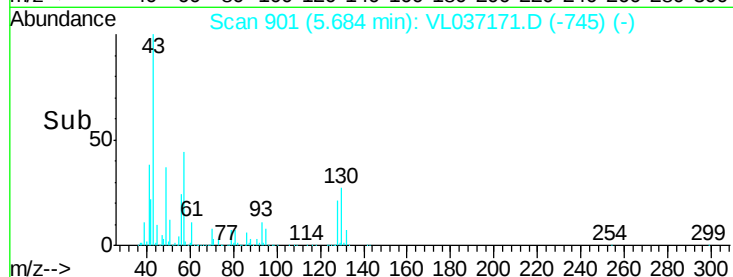
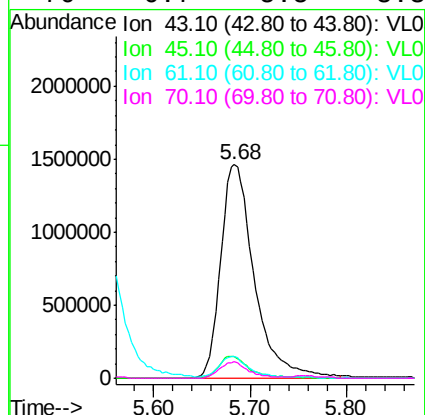
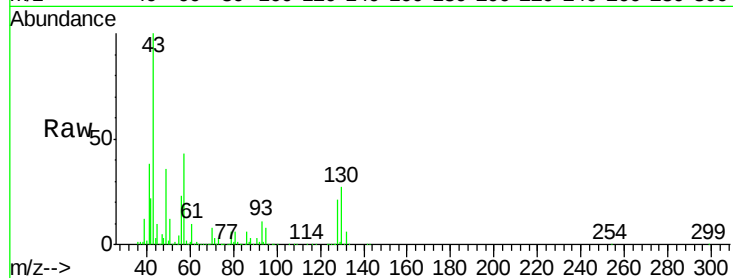
#25  
Ethyl Acetate  
Concen: 9.255 ppbv  
RT: 5.68 min Scan# 901  
Delta R.T. 0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL061621

| Tot Ion: | 43    | Resp: | 3511994 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 43       | 100   |       |         |
| 45       | 9.7   | 8.0   | 12.0    |
| 61       | 9.7   | 8.1   | 12.1    |
| 70       | 6.7   | 5.5   | 8.3     |

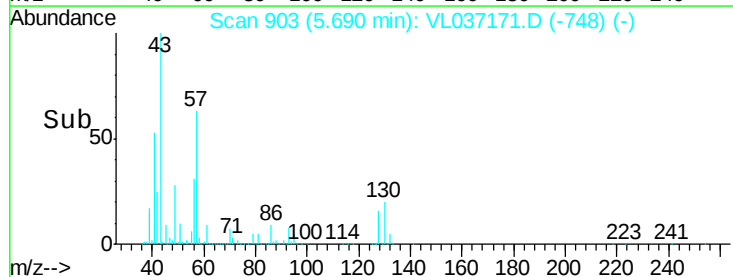
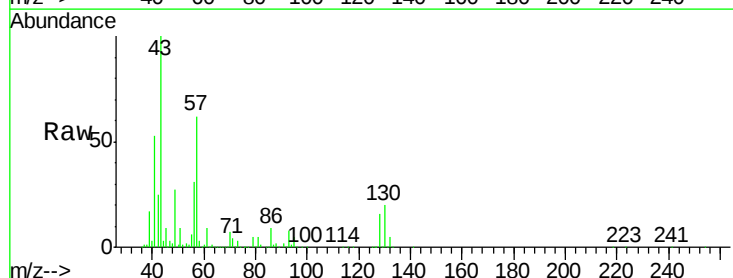
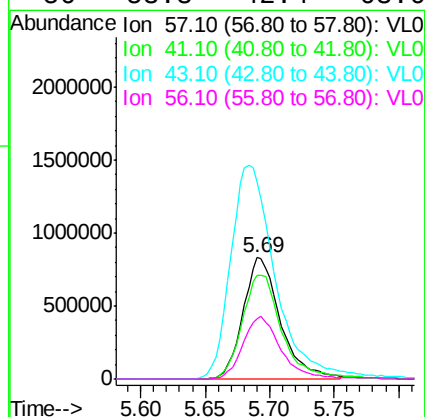
Manual Integrations  
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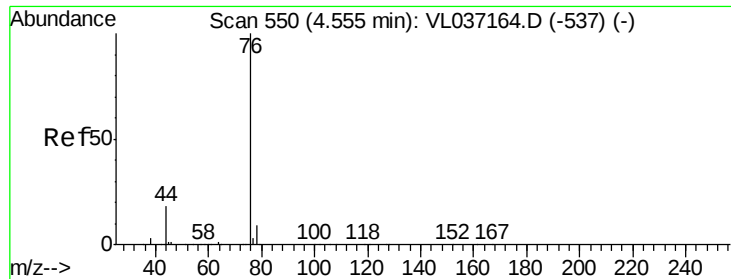
MMDadoda  
6/17/2021 5:37:29 PM



#26  
Hexane  
Concen: 8.704 ppbv  
RT: 5.69 min Scan# 903  
Delta R.T. -0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

| Tgt Ion: | 57    | Resp: | 1669334 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 57       | 100   |       |         |
| 41       | 92.6  | 73.5  | 110.3   |
| 43       | 213.4 | 170.7 | 256.1   |
| 56       | 53.3  | 42.4  | 63.6    |





#27

Carbon Disulfide

Concen: 10.486 ppbv

RT: 4.56 min Scan# 550

Delta R.T. 0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL061621

Tot Ion: 76 Resp: 1970422

Ion Ratio Lower Upper

76 100

44 19.4 15.4 23.2

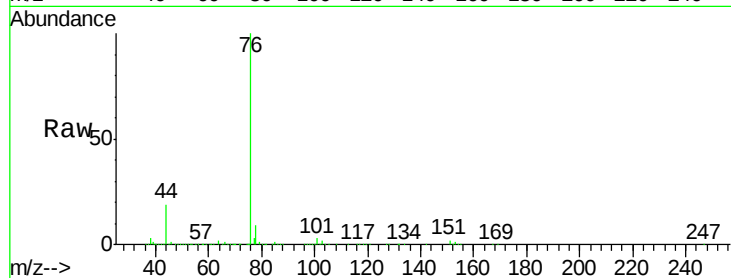
78 9.9 8.0 12.0

Manual Integrations

APPROVED

MMDadoda

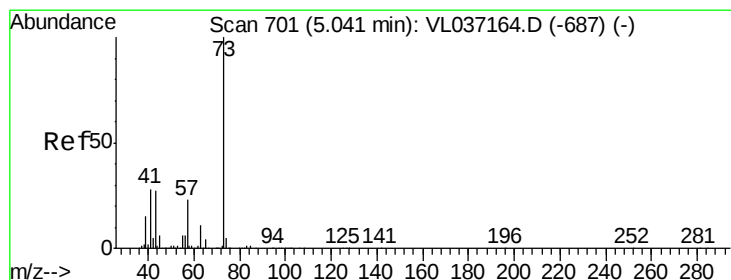
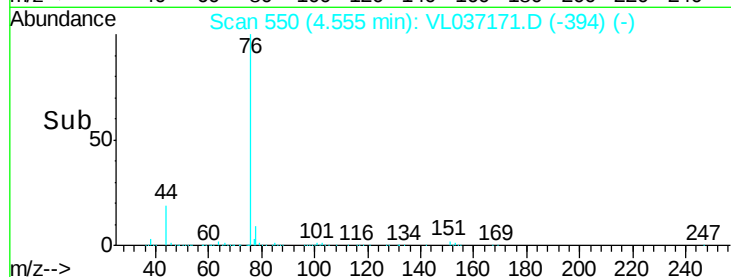
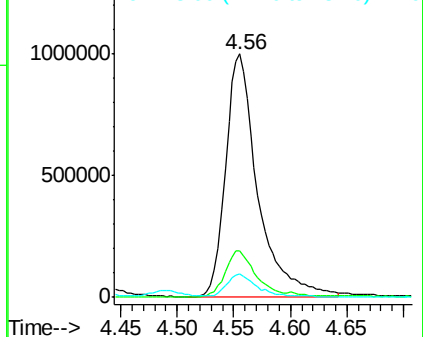
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Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.145 ppbv

RT: 5.04 min Scan# 701

Delta R.T. 0.00 min

Lab File: VL037171.D

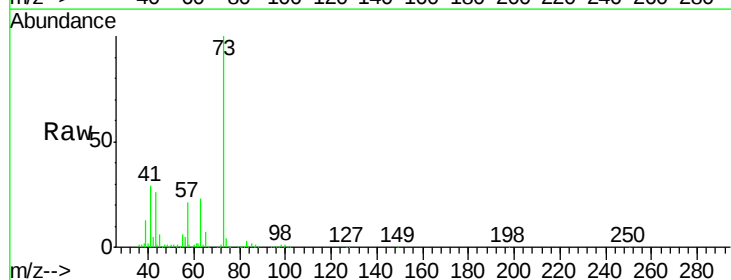
Acq: 16 Jun 2021 14:27

Tgt Ion: 73 Resp: 2108580

Ion Ratio Lower Upper

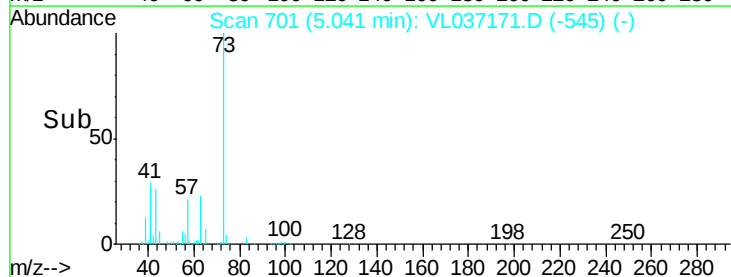
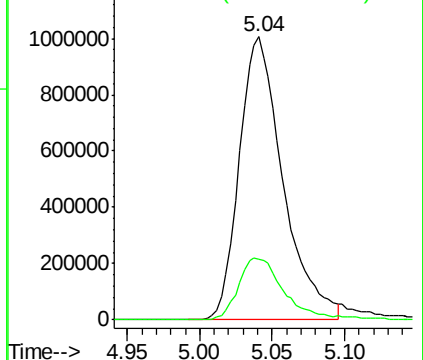
73 100

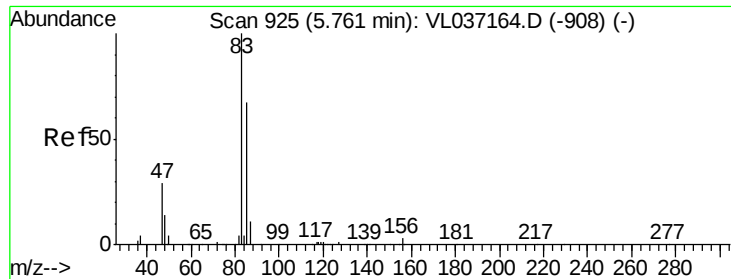
57 23.2 18.0 27.0



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 9.182 ppbv

RT: 5.76 min Scan# 924

Delta R.T. -0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL061621

Tot Ion: 83 Resp: 2720293

Ion Ratio Lower Upper

83 100

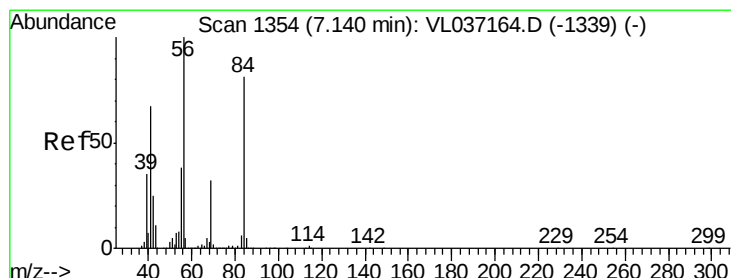
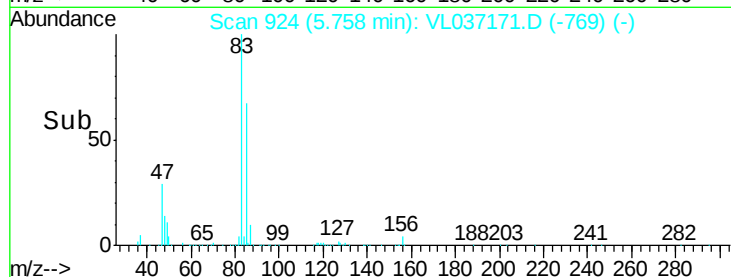
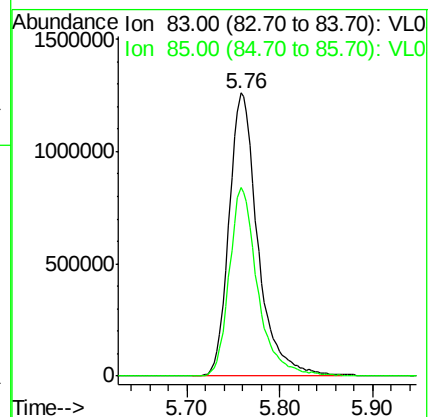
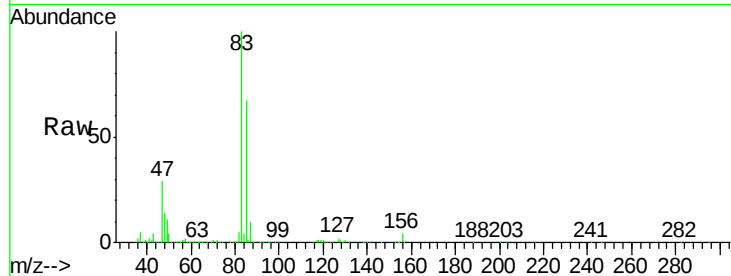
85 66.6 53.6 80.4

Manual Integrations

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#30

Cyclohexane

Concen: 9.084 ppbv

RT: 7.14 min Scan# 1353

Delta R.T. -0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

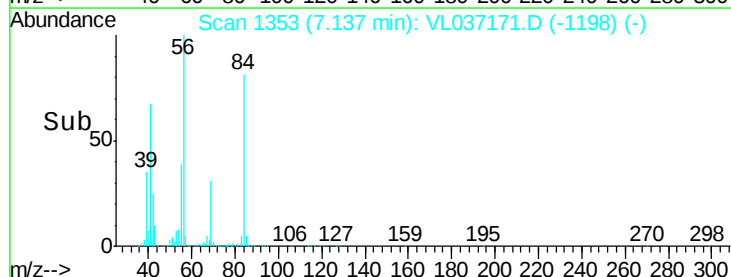
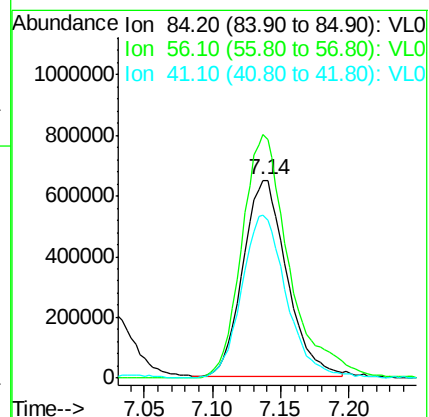
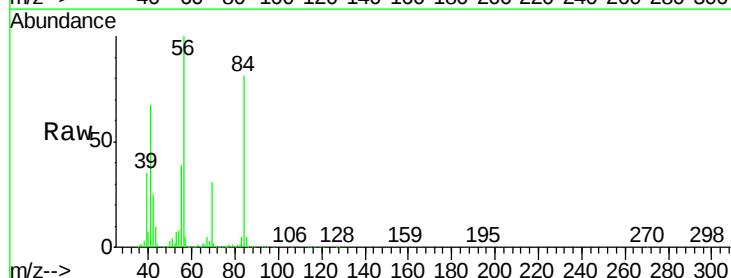
Tgt Ion: 84 Resp: 1451686

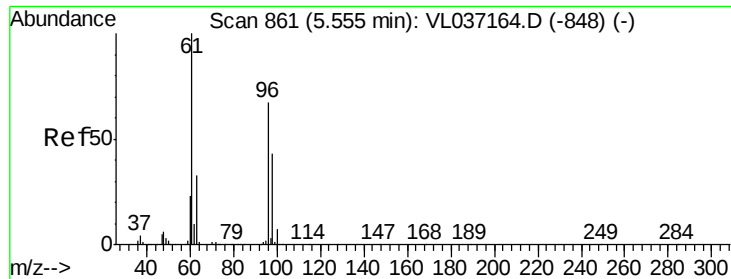
Ion Ratio Lower Upper

84 100

56 134.5 107.7 161.5

41 85.1 69.0 103.6





#31

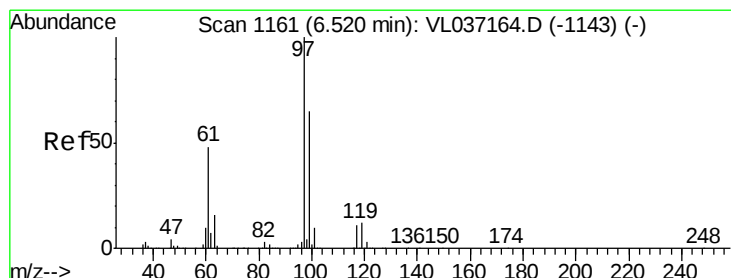
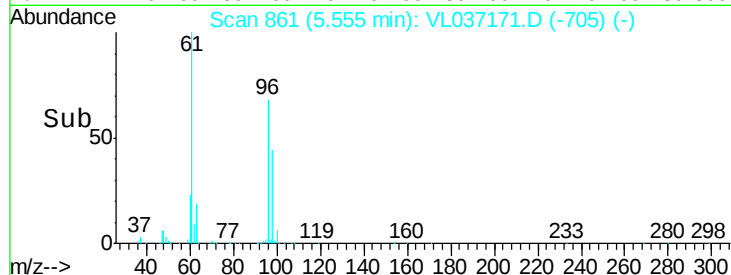
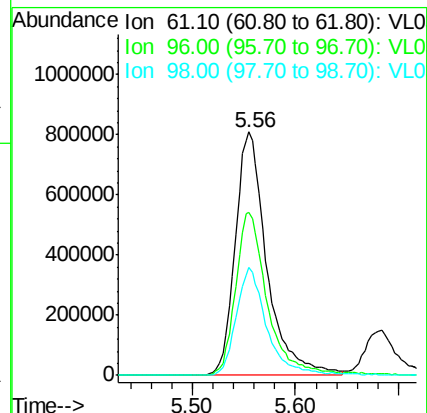
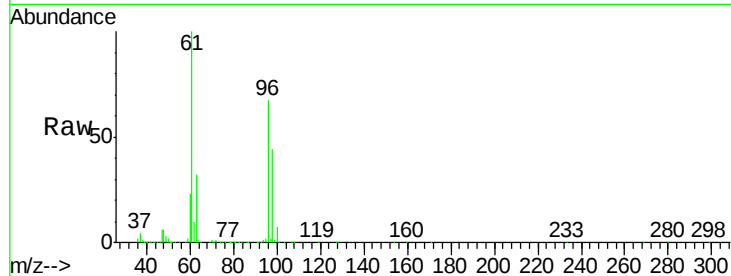
cis-1,2-Dichloroethene  
Concen: 9.807 ppbv  
RT: 5.56 min Scan# 861  
Delta R.T. 0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL061621

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 67.0  | 53.6  | 80.4  |
| 98      | 44.3  | 34.7  | 52.1  |

Manual Integrations  
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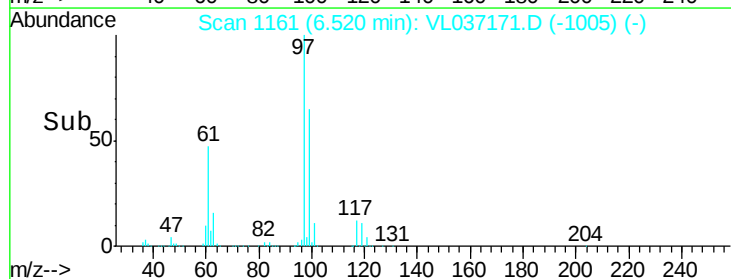
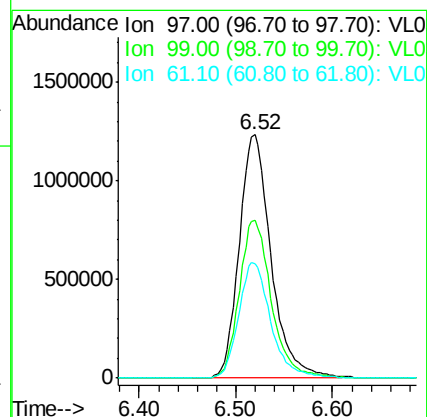
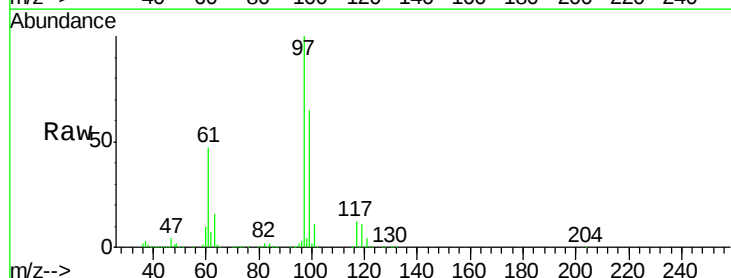
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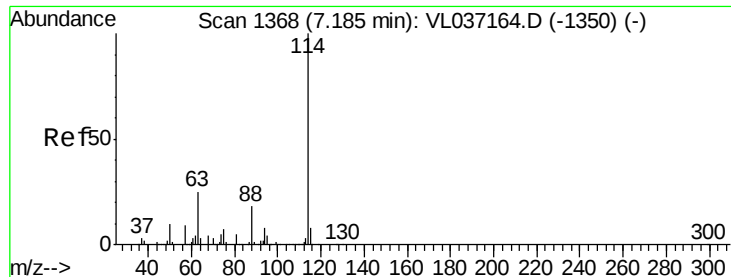


#32

1,1,1-Trichloroethane  
Concen: 8.911 ppbv  
RT: 6.52 min Scan# 1161  
Delta R.T. 0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 65.8  | 52.2  | 78.4  |
| 61      | 47.8  | 38.8  | 58.2  |





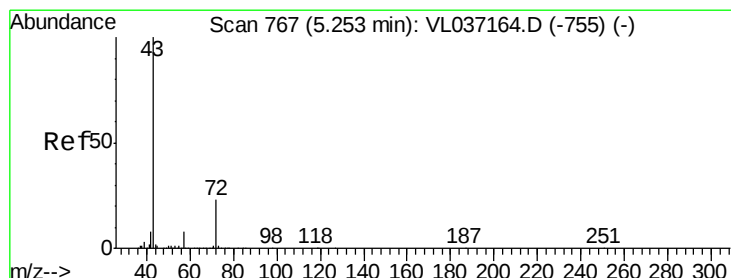
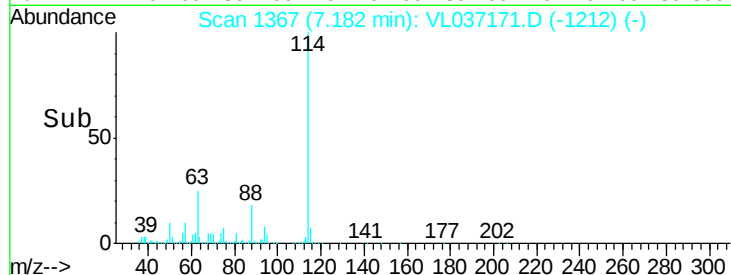
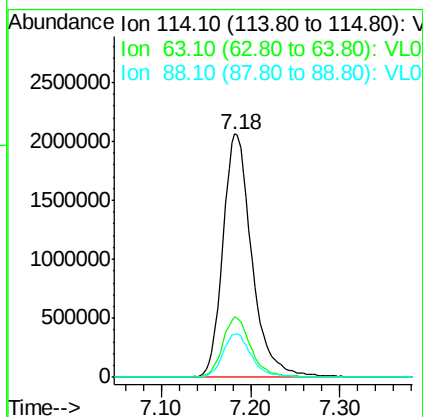
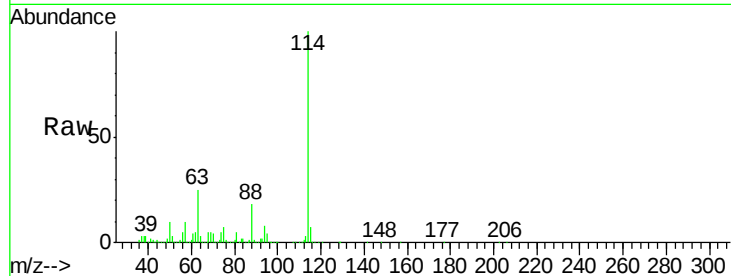
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.18 min Scan# 1367  
 Delta R.T. -0.00 min  
 Lab File: VL037171.D  
 Acq: 16 Jun 2021 14:27

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL061621

Tot Ion:114 Resp: 4639615  
 Ion Ratio Lower Upper  
 114 100  
 63 24.4 19.6 29.4  
 88 17.7 14.2 21.2

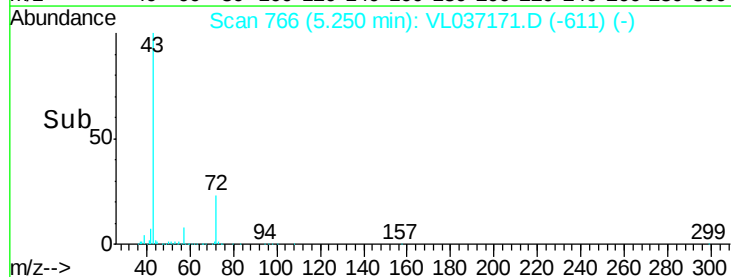
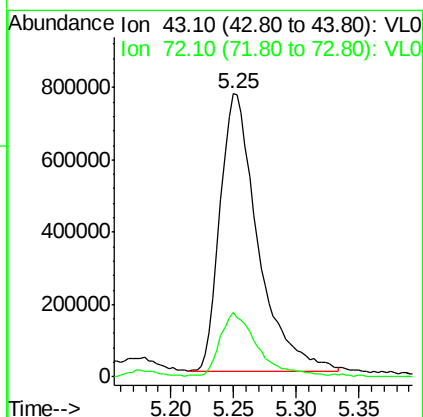
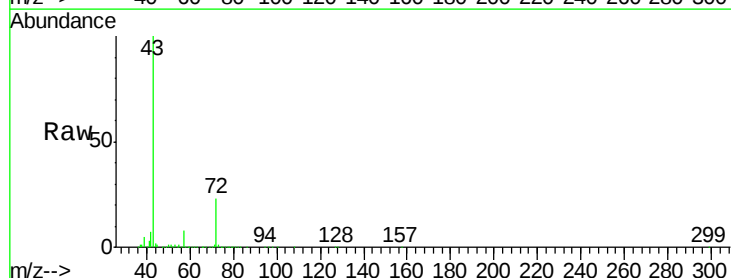
Manual Integrations  
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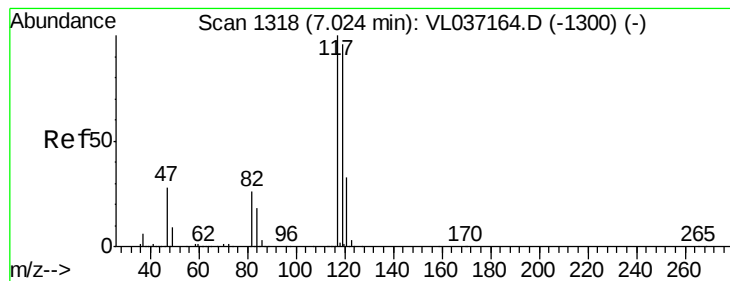
MMDadoda  
 6/17/2021 5:37:29 PM



#34  
 2-Butanone  
 Concen: 8.975 ppbv  
 RT: 5.25 min Scan# 766  
 Delta R.T. -0.00 min  
 Lab File: VL037171.D  
 Acq: 16 Jun 2021 14:27

Tgt Ion: 43 Resp: 1619439  
 Ion Ratio Lower Upper  
 43 100  
 72 23.5 18.9 28.3





#35

Carbon Tetrachloride

Concen: 9.673 ppbv

RT: 7.02 min Scan# 1318

Delta R.T. 0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL061621

Tot Ion:117 Resp: 3010191

Ion Ratio Lower Upper

117 100

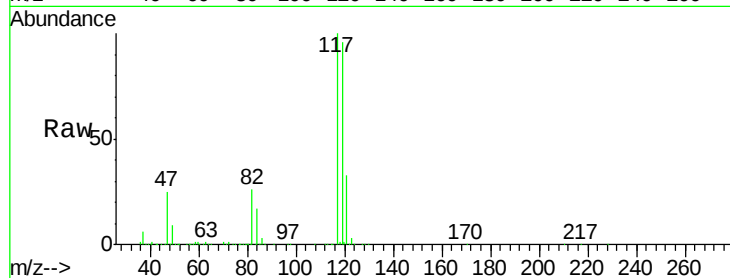
119 95.9 76.6 114.8

121 32.6 26.4 39.6

Manual Integrations  
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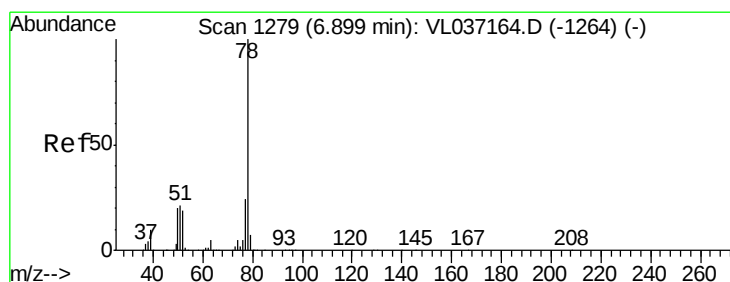
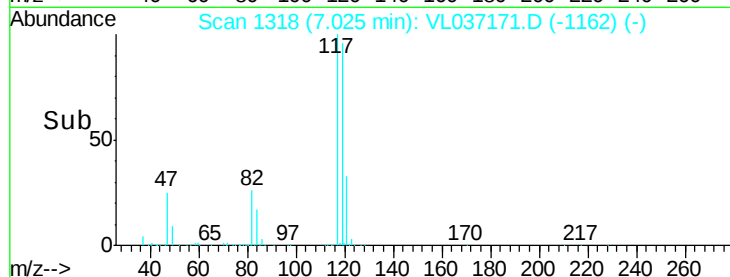
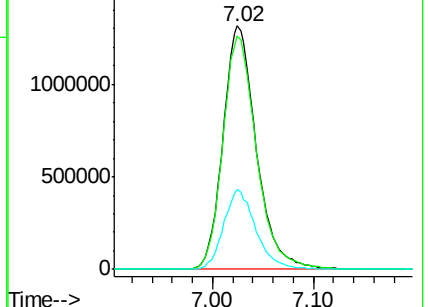
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.264 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. 0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

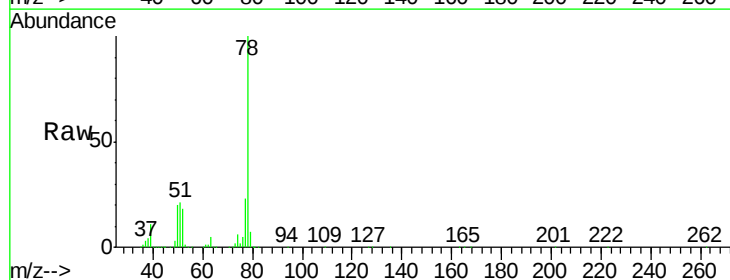
Tgt Ion: 78 Resp: 3475676

Ion Ratio Lower Upper

78 100

77 23.3 19.0 28.6

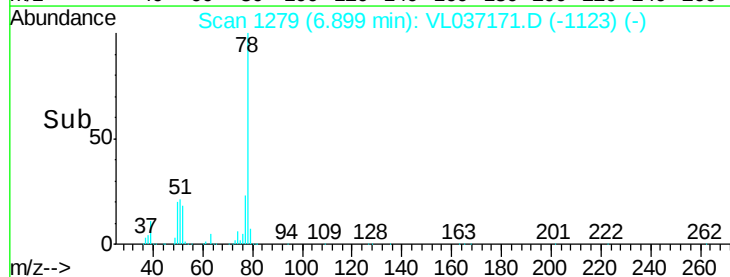
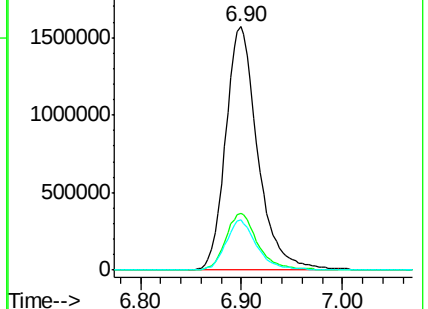
50 20.4 15.7 23.5

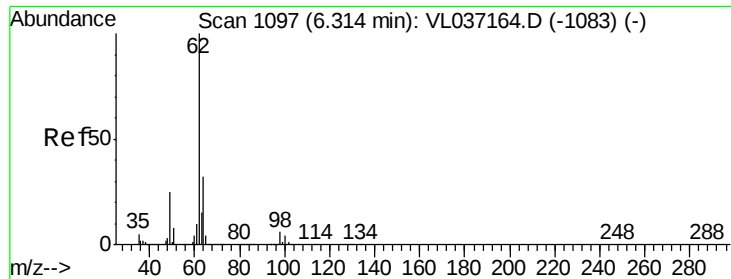


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





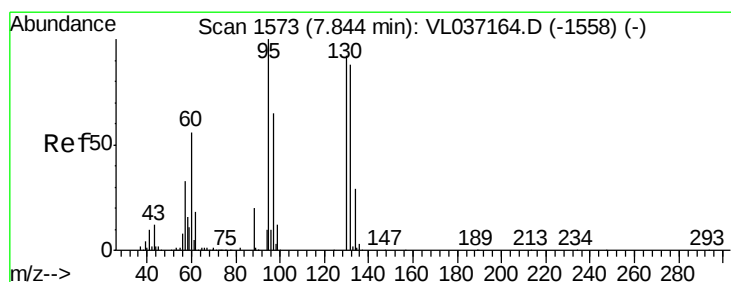
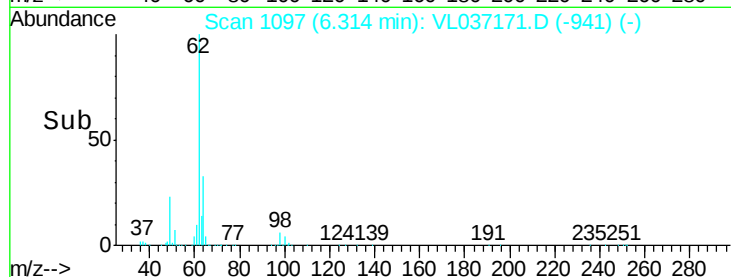
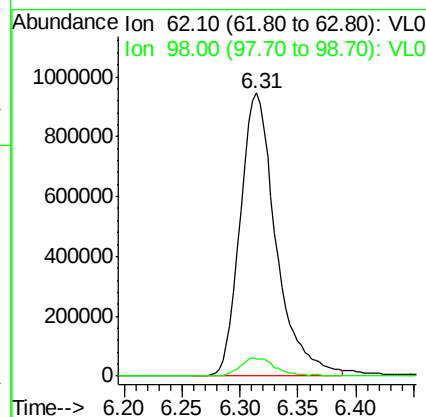
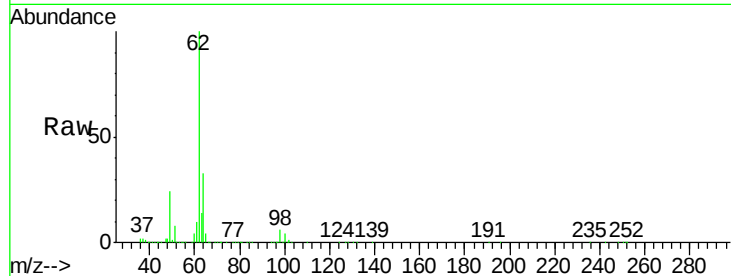
#37  
 1,2-Dichloroethane  
 Concen: 9.303 ppbv  
 RT: 6.31 min Scan# 1097  
 Delta R.T. 0.00 min  
 Lab File: VL037171.D  
 Acq: 16 Jun 2021 14:27

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL061621

Tot Ion: 62 Resp: 2027476  
 Ion Ratio Lower Upper  
 62 100  
 98 6.7 5.0 7.6

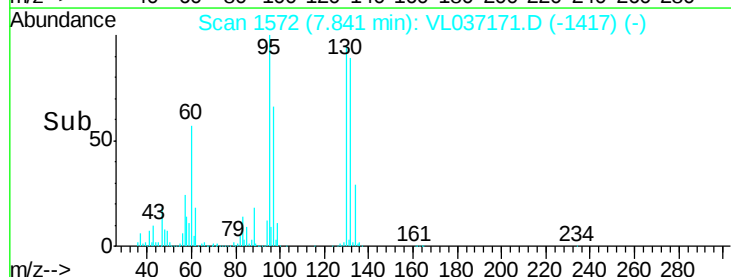
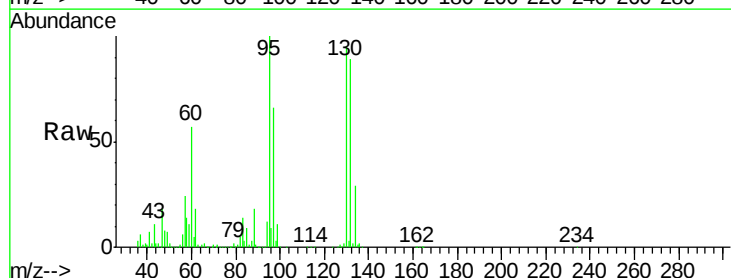
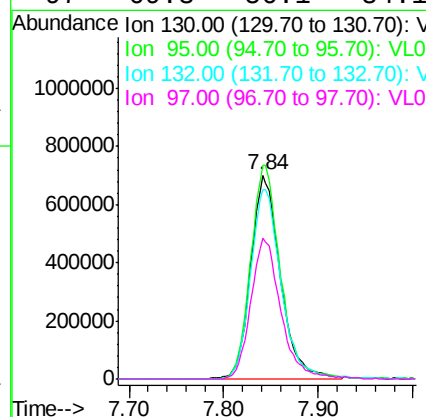
Manual Integrations  
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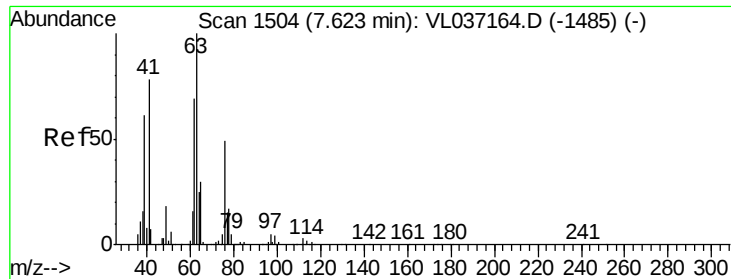
MMDadoda  
 6/17/2021 5:37:29 PM



#38  
 Trichloroethene  
 Concen: 8.561 ppbv  
 RT: 7.84 min Scan# 1572  
 Delta R.T. -0.00 min  
 Lab File: VL037171.D  
 Acq: 16 Jun 2021 14:27

Tgt Ion: 130 Resp: 1526815  
 Ion Ratio Lower Upper  
 130 100  
 95 104.8 86.6 129.8  
 132 93.1 76.6 114.8  
 97 69.3 56.1 84.1





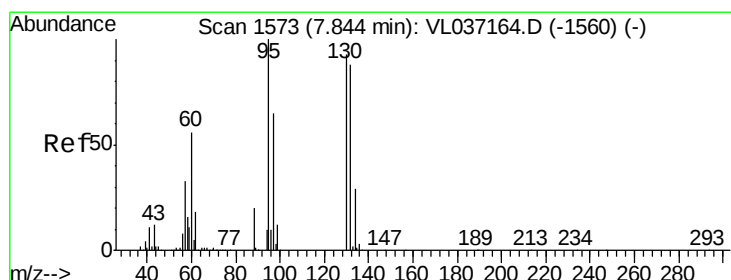
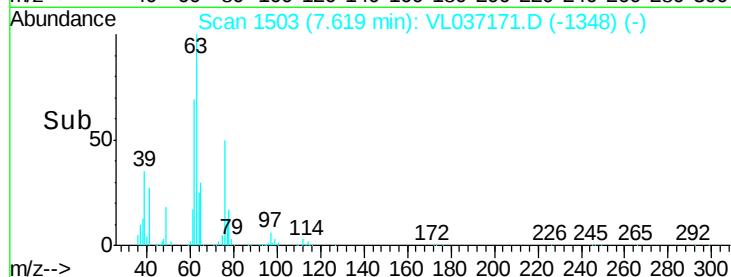
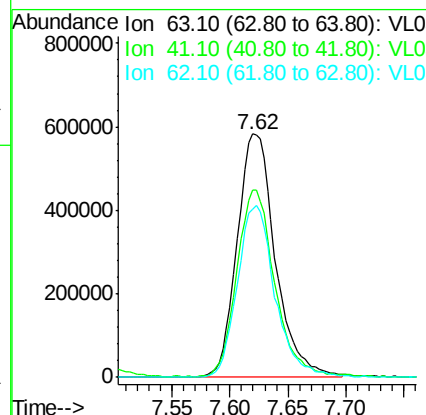
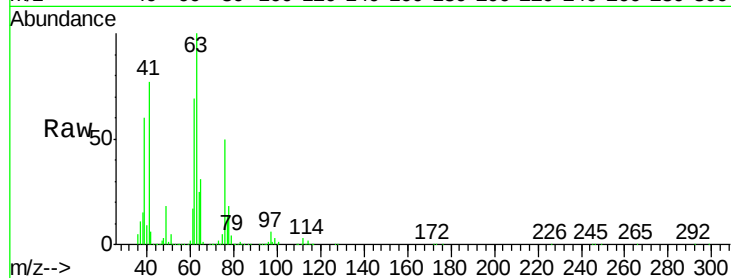
#39  
 1,2-Dichloropropane  
 Concen: 9.564 ppbv  
 RT: 7.62 min Scan# 1503  
 Delta R.T. -0.00 min  
 Lab File: VL037171.D  
 Acq: 16 Jun 2021 14:27

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL061621

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 76.5  | 62.0  | 93.0  |
| 62      | 69.1  | 54.9  | 82.3  |

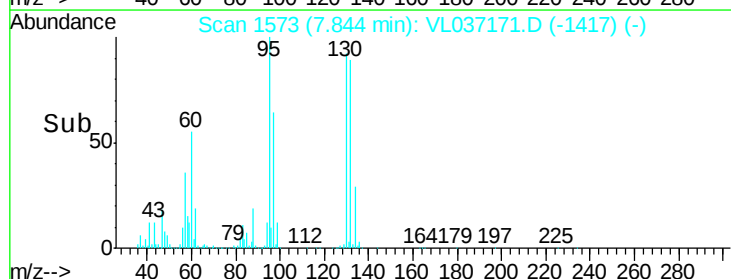
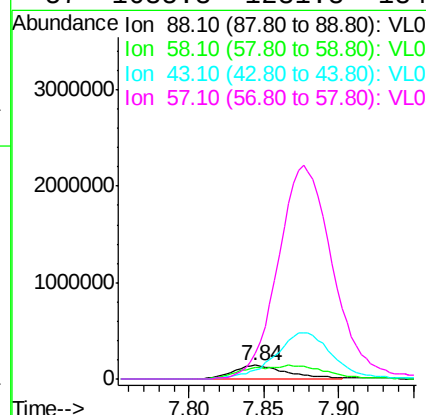
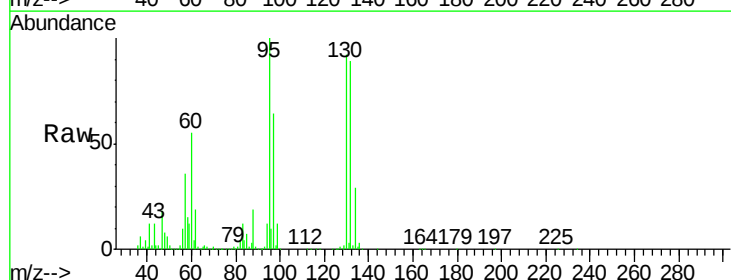
Manual Integrations  
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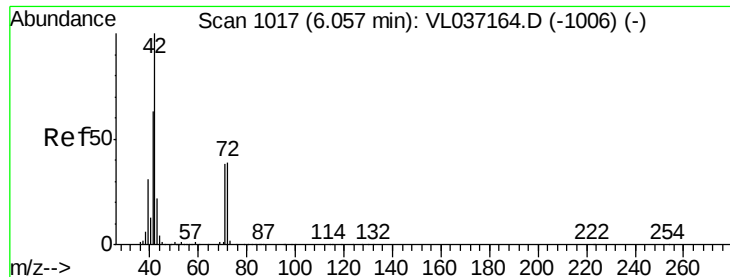
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 6/17/2021 5:37:29 PM



#40  
 1,4-Dioxane  
 Concen: 9.118 ppbv  
 RT: 7.84 min Scan# 1573  
 Delta R.T. 0.00 min  
 Lab File: VL037171.D  
 Acq: 16 Jun 2021 14:27

| Tgt Ion | Ratio  | Lower  | Upper  |
|---------|--------|--------|--------|
| 88      | 100    |        |        |
| 58      | 153.7  | 118.4  | 177.6  |
| 43      | 373.1  | 284.0  | 426.0  |
| 57      | 1635.3 | 1231.8 | 1847.6 |





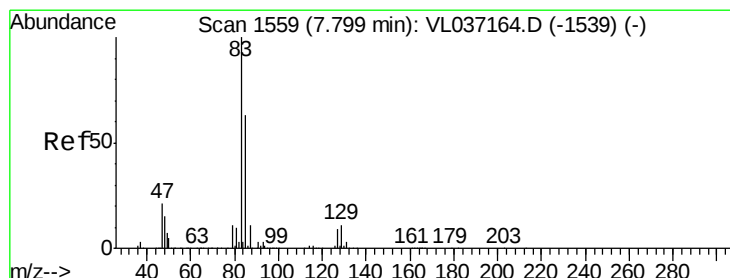
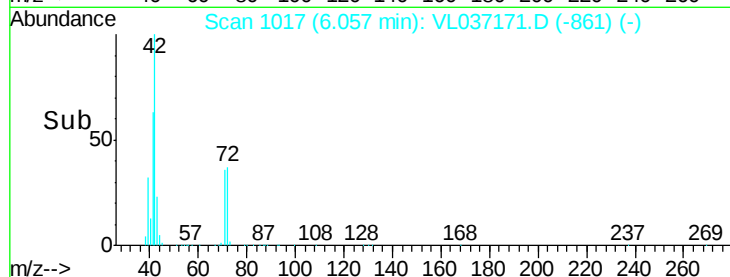
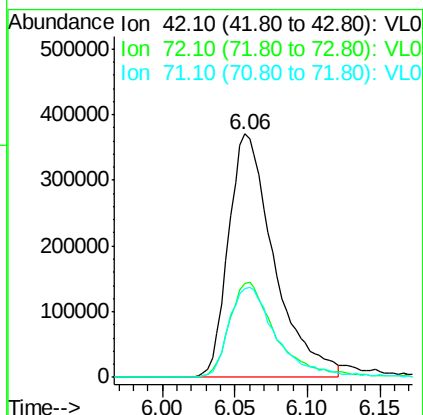
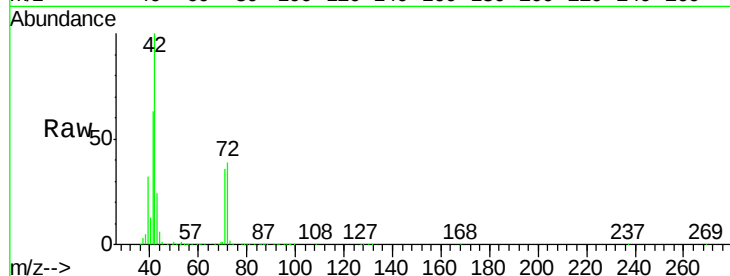
#41  
Tetrahydrofuran  
Concen: 9.638 ppbv  
RT: 6.06 min Scan# 1017  
Delta R.T. 0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL061621

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 40.8  | 33.0  | 49.4  |
| 71      | 39.3  | 31.0  | 46.6  |

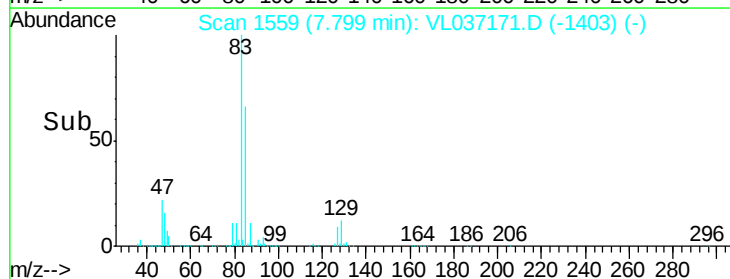
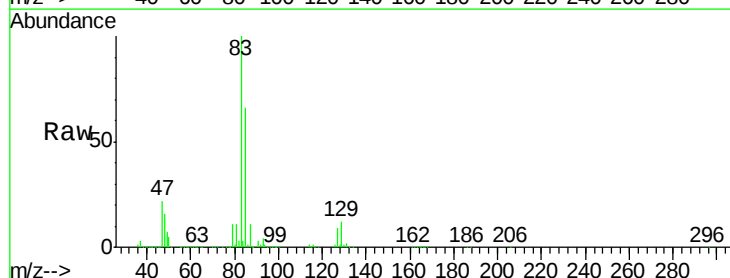
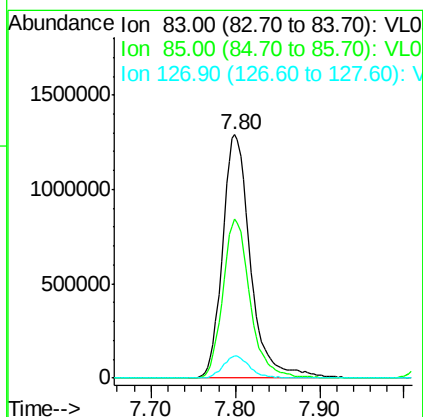
Manual Integrations  
APPROVED

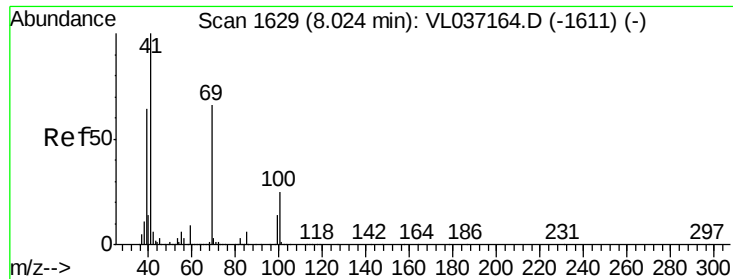
MMDadoda  
6/17/2021 5:37:29 PM



#42  
Bromodichloromethane  
Concen: 9.880 ppbv  
RT: 7.80 min Scan# 1559  
Delta R.T. 0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 65.5  | 50.8  | 76.2  |
| 127     | 9.0   | 7.0   | 10.6  |





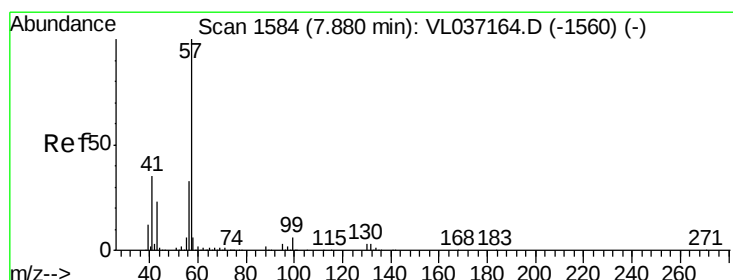
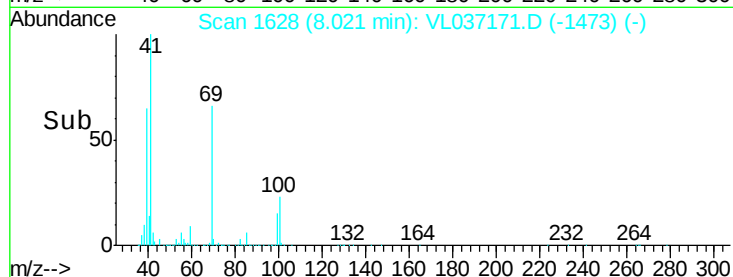
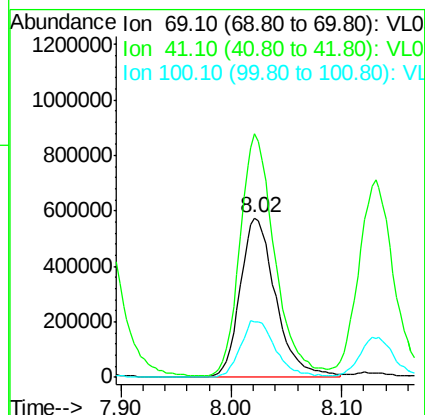
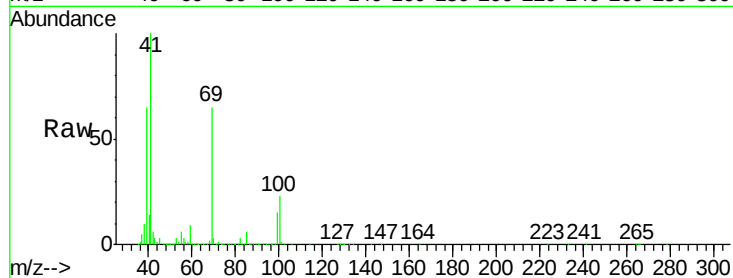
#43  
Methvl Methacrvlate  
Concen: 9.908 ppbv  
RT: 8.02 min Scan# 1628  
Delta R.T. -0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL061621

Tot Ion: 69 Resp: 1283762  
Ion Ratio Lower Upper  
69 100  
41 149.6 119.4 179.0  
100 35.3 28.6 43.0

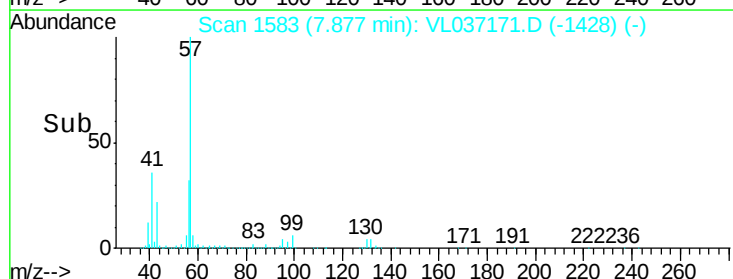
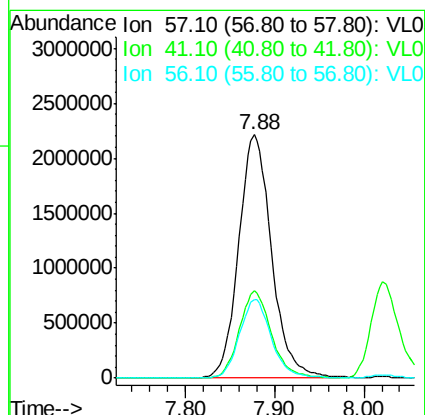
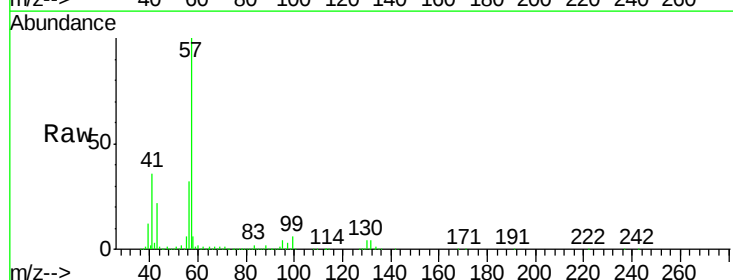
Manual Integrations  
APPROVED

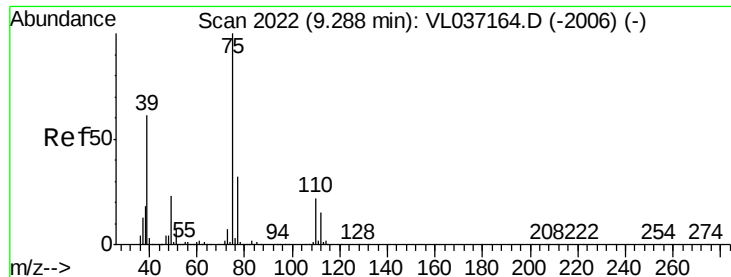
MMDadoda  
6/17/2021 5:37:29 PM



#44  
2,2,4-Trimethylpentane  
Concen: 8.996 ppbv  
RT: 7.88 min Scan# 1583  
Delta R.T. -0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

Tgt Ion: 57 Resp: 5683527  
Ion Ratio Lower Upper  
57 100  
41 34.7 27.6 41.4  
56 31.4 25.3 37.9





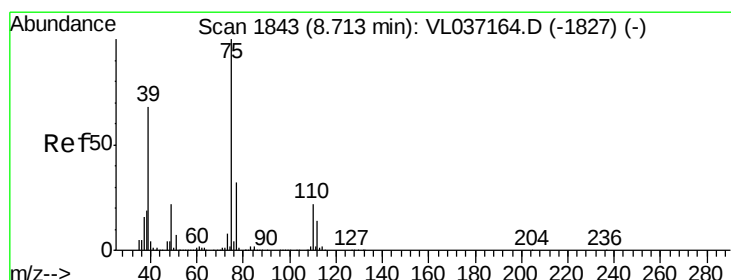
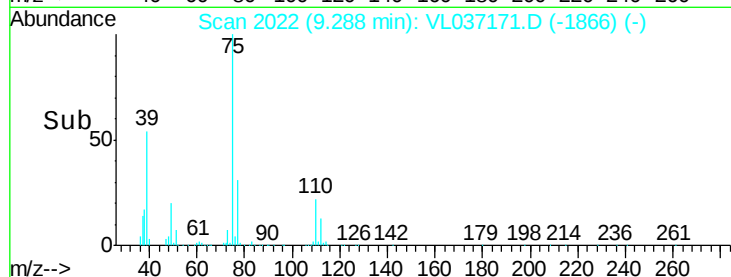
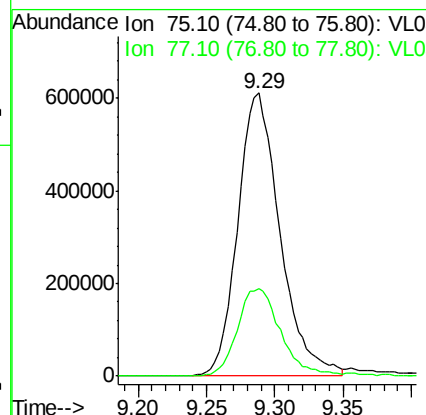
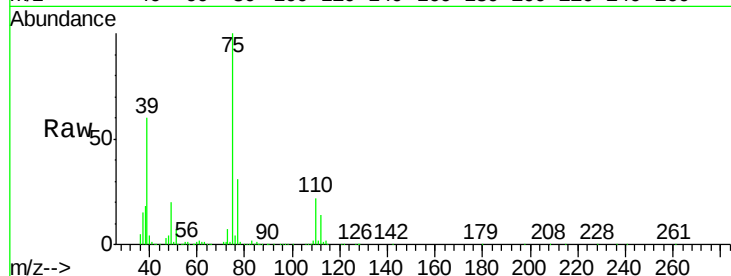
#45  
t-1,3-Dichloropropene  
Concen: 11.423 ppbv  
RT: 9.29 min Scan# 2022  
Delta R.T. 0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL061621

Tot Ion: 75 Resp: 1305832  
Ion Ratio Lower Upper  
75 100  
77 30.7 25.6 38.4

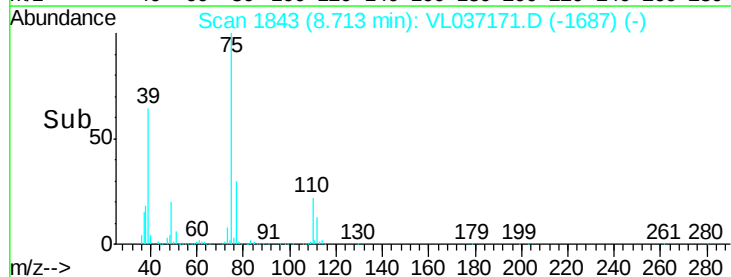
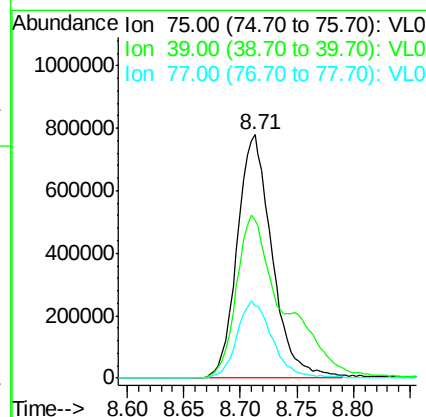
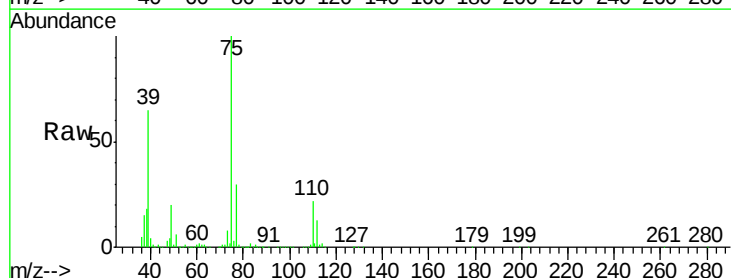
Manual Integrations  
APPROVED

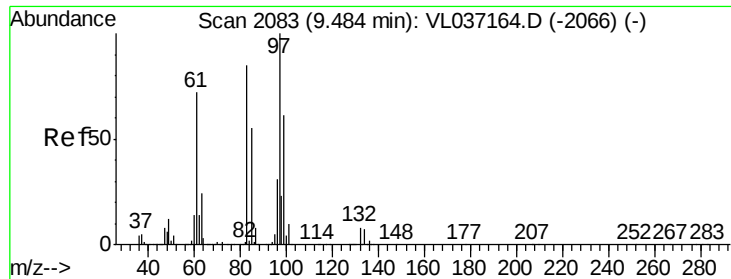
MMDadoda  
6/17/2021 5:37:29 PM



#46  
cis-1,3-Dichloropropene  
Concen: 10.690 ppbv  
RT: 8.71 min Scan# 1843  
Delta R.T. 0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

Tgt Ion: 75 Resp: 1671695  
Ion Ratio Lower Upper  
75 100  
39 64.8 54.7 82.1  
77 29.7 25.8 38.8





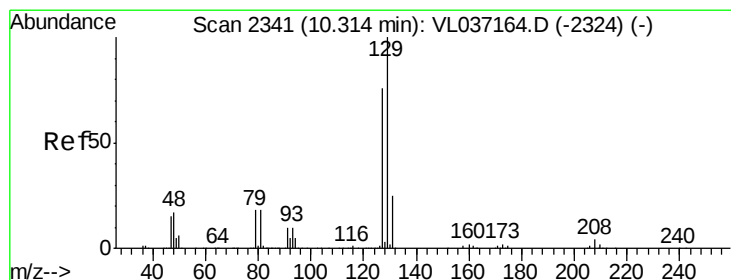
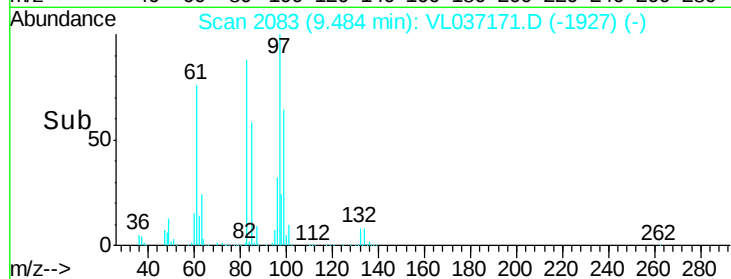
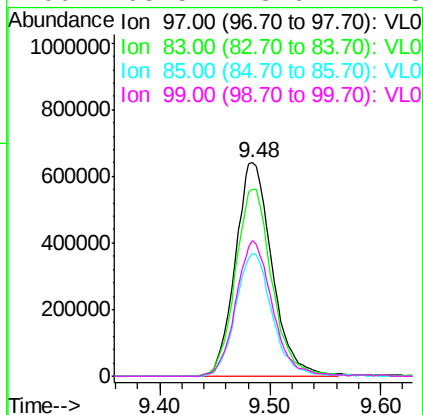
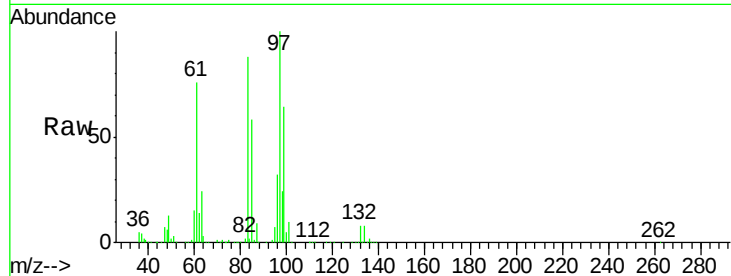
#47  
 1,1,2-Trichloroethane  
 Concen: 9.298 ppbv  
 RT: 9.48 min Scan# 2083  
 Delta R.T. 0.00 min  
 Lab File: VL037171.D  
 Acq: 16 Jun 2021 14:27

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL061621

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 87.6  | 68.3  | 102.5 |
| 85      | 57.8  | 44.1  | 66.1  |
| 99      | 63.5  | 48.6  | 72.8  |

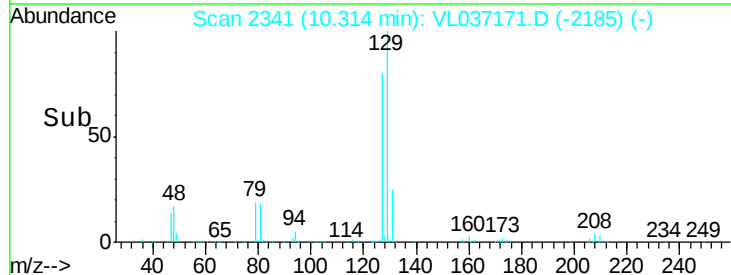
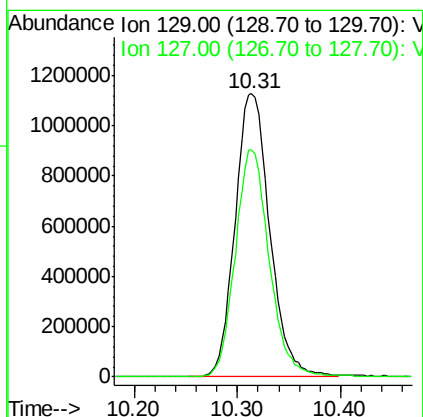
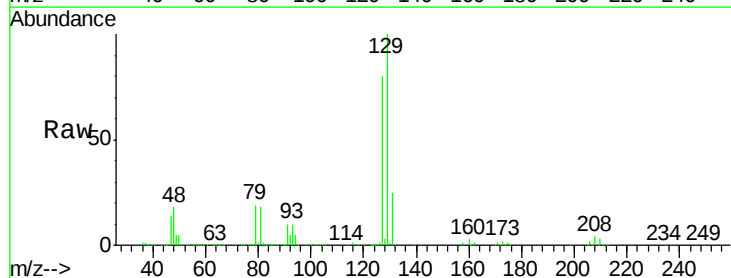
Manual Integrations  
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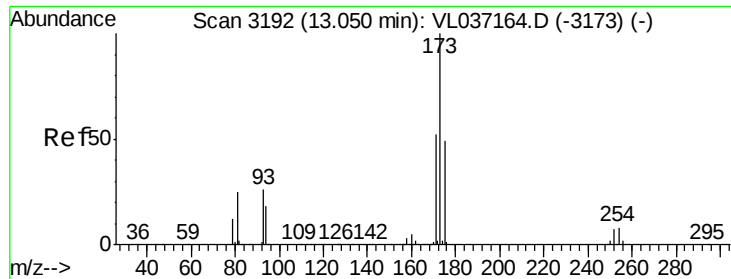
MMDadoda  
 6/17/2021 5:37:29 PM



#48  
 Dibromochloromethane  
 Concen: 10.545 ppbv  
 RT: 10.31 min Scan# 2341  
 Delta R.T. 0.00 min  
 Lab File: VL037171.D  
 Acq: 16 Jun 2021 14:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 79.4  | 39.1  | 117.2 |





#49

Bromoform

Concen: 11.580 ppbv

RT: 13.05 min Scan# 3192

Delta R.T. 0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL061621

Tot Ion:173 Resp: 2166165

Ion Ratio Lower Upper

173 100

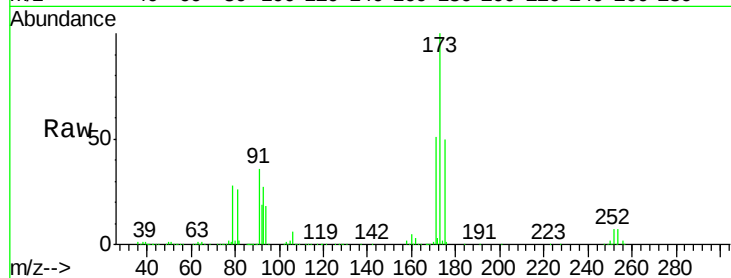
175 50.1 40.2 60.4

171 53.6 41.8 62.8

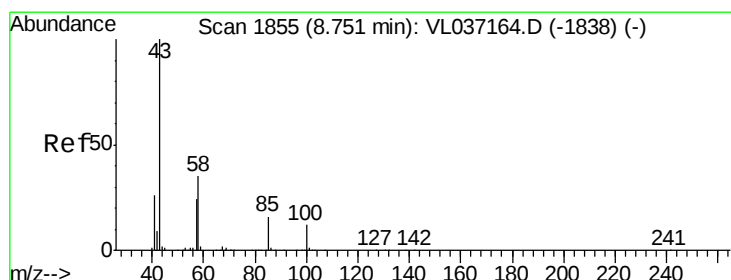
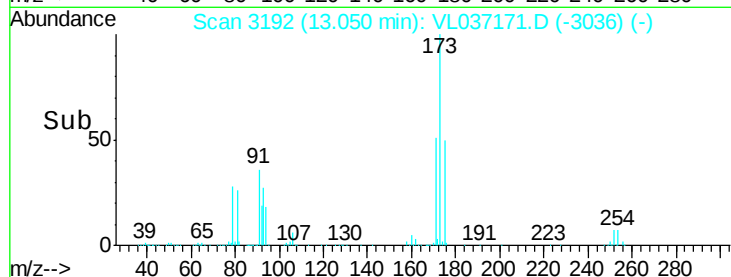
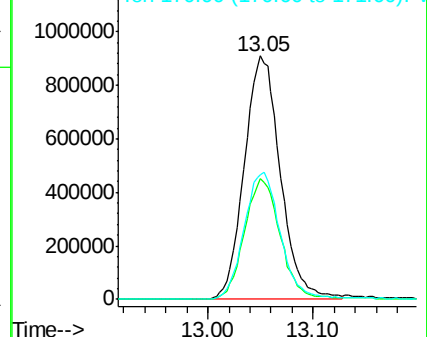
Manual Integrations  
APPROVED

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6/17/2021 5:37:29 PM



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



#50

4-Methyl-2-Pentanone

Concen: 9.592 ppbv

RT: 8.75 min Scan# 1855

Delta R.T. 0.00 min

Lab File: VL037171.D

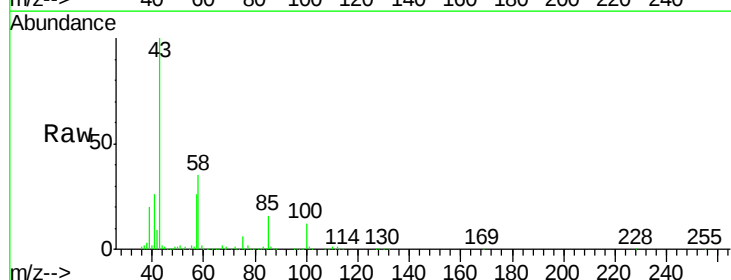
Acq: 16 Jun 2021 14:27

Tgt Ion: 43 Resp: 2377376

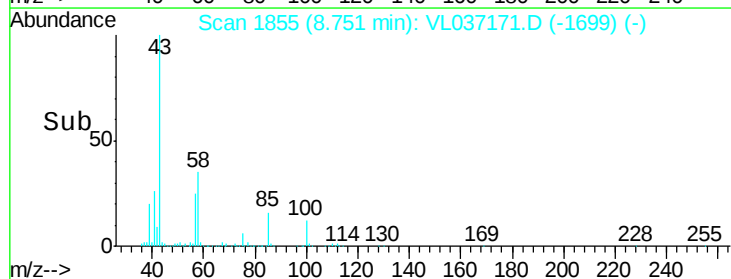
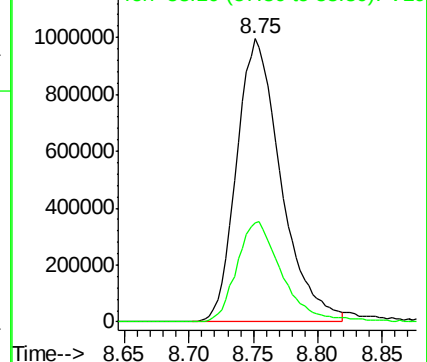
Ion Ratio Lower Upper

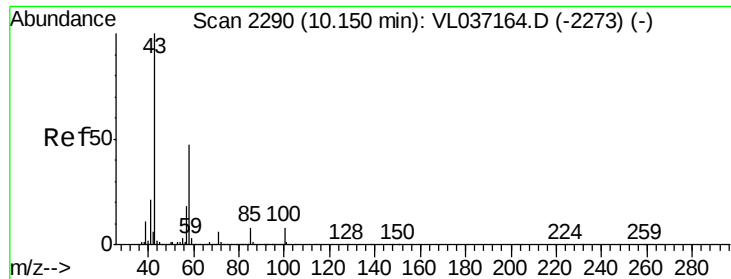
43 100

58 36.6 28.4 42.6



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





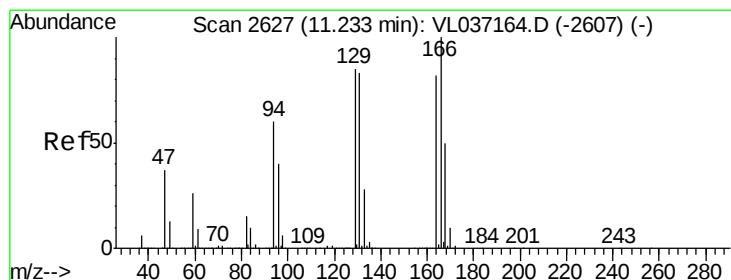
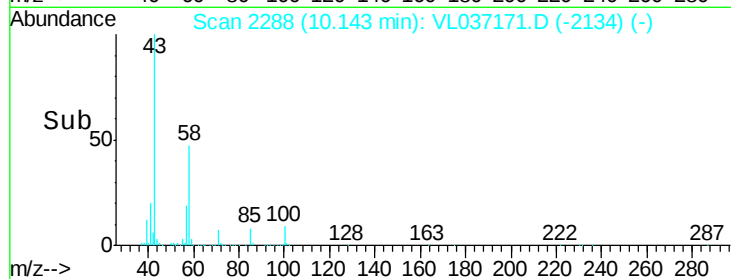
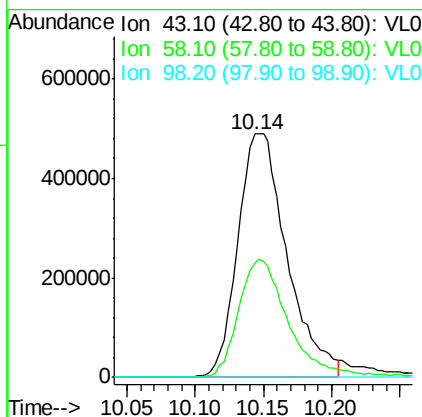
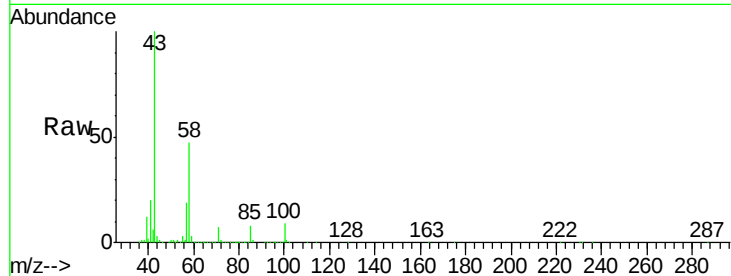
#51  
2-Hexanone  
Concen: 10.145 ppbv  
RT: 10.14 min Scan# 2288  
Delta R.T. -0.01 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL061621

Tot Ion: 43 Resp: 1223411  
Ion Ratio Lower Upper  
43 100  
58 50.1 38.4 57.6  
98 0.4 0.3 0.5

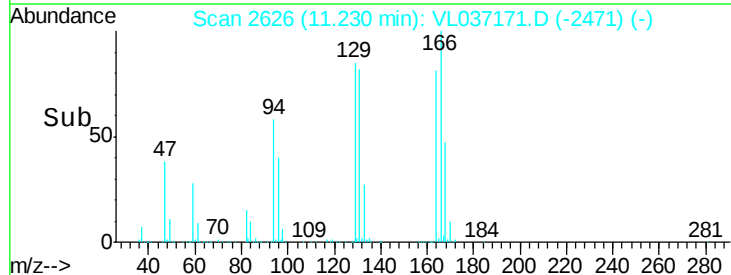
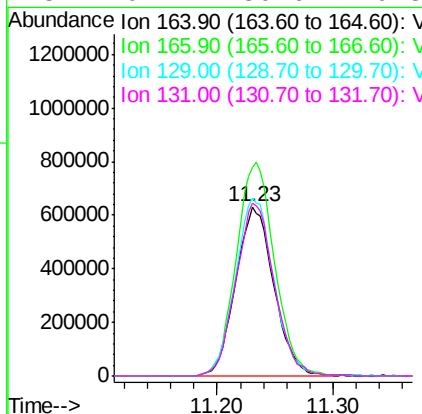
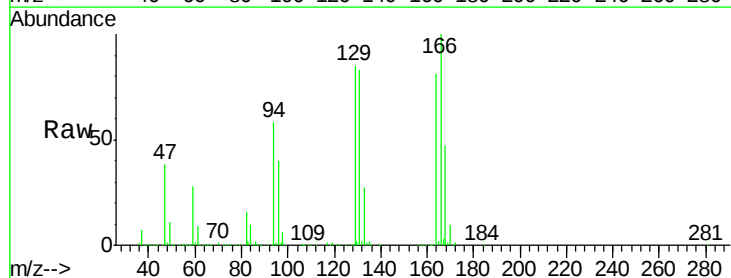
Manual Integrations  
APPROVED

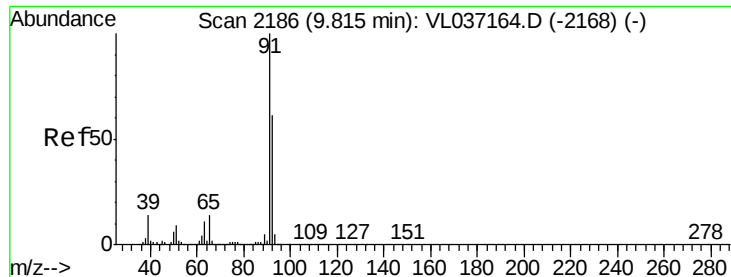
MMDadoda  
6/17/2021 5:37:29 PM



#52  
Tetrachloroethene  
Concen: 8.267 ppbv  
RT: 11.23 min Scan# 2626  
Delta R.T. -0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

Tgt Ion: 164 Resp: 1441162  
Ion Ratio Lower Upper  
164 100  
166 123.4 97.6 146.4  
129 105.2 82.9 124.3  
131 101.7 80.6 120.8





#53

Toluene

Concen: 9.271 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL061621

Tot Ion: 91 Resp: 4154779

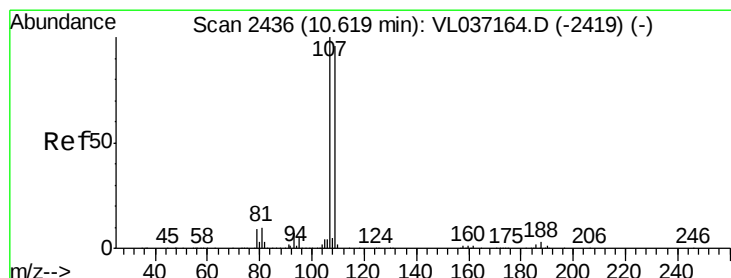
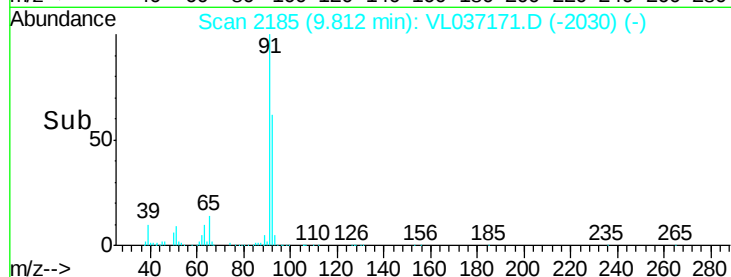
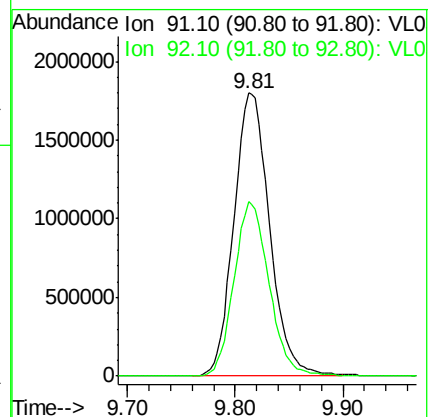
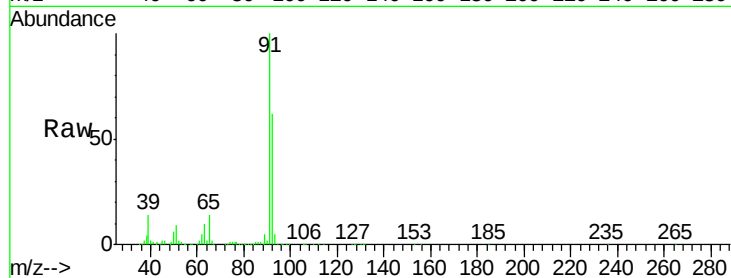
Ion Ratio Lower Upper

91 100

92 60.8 48.3 72.5

Manual Integrations  
APPROVED

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6/17/2021 5:37:29 PM



#54

1,2-Dibromoethane

Concen: 9.699 ppbv

RT: 10.62 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VL037171.D

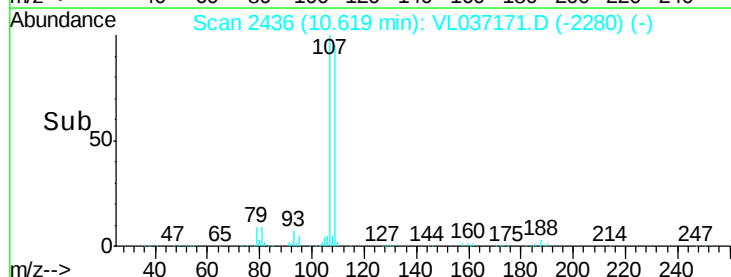
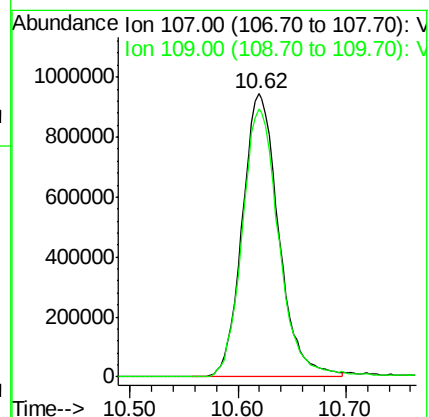
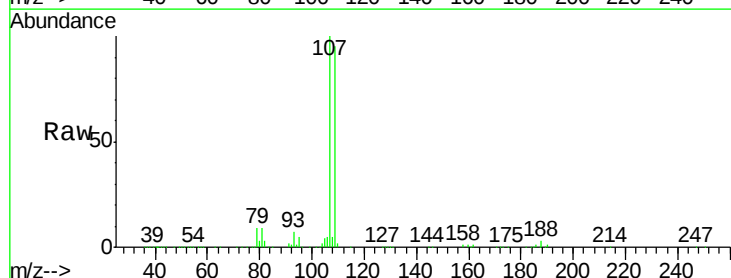
Acq: 16 Jun 2021 14:27

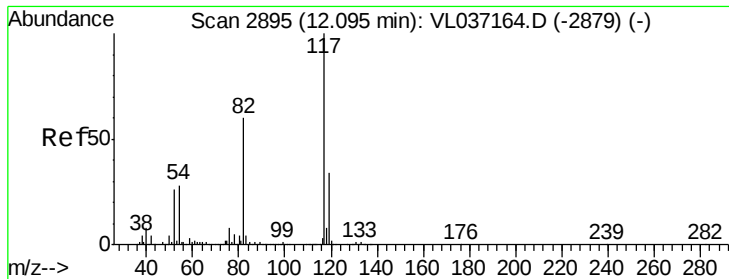
Tgt Ion: 107 Resp: 2216933

Ion Ratio Lower Upper

107 100

109 94.7 77.0 115.6





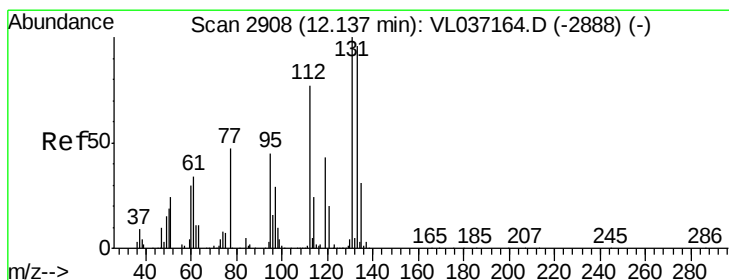
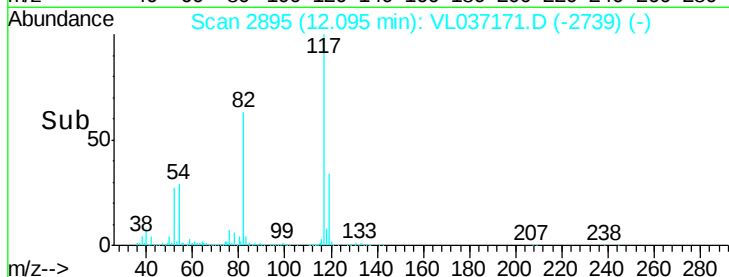
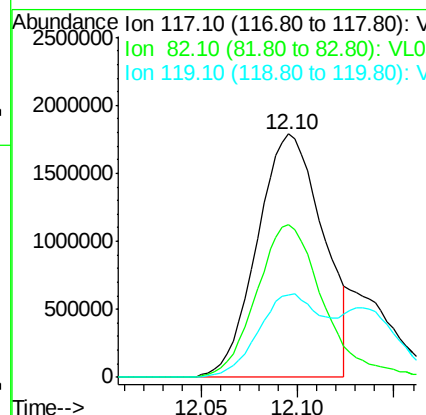
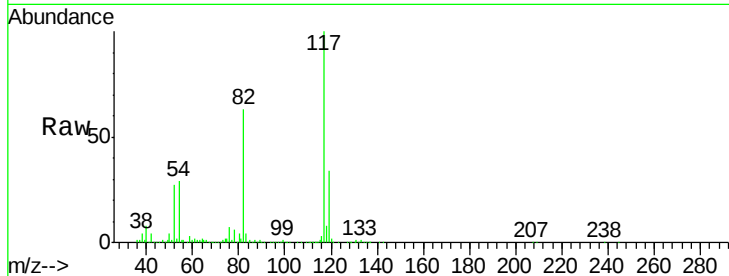
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv m  
RT: 12.10 min Scan# 2895  
Delta R.T. 0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL061621

Tot Ion:117 Resp: 4254931  
Ion Ratio Lower Upper  
117 100  
82 64.3 51.7 77.5  
119 35.1 47.6 71.4#

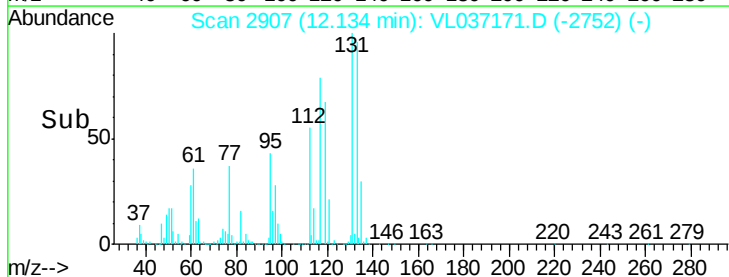
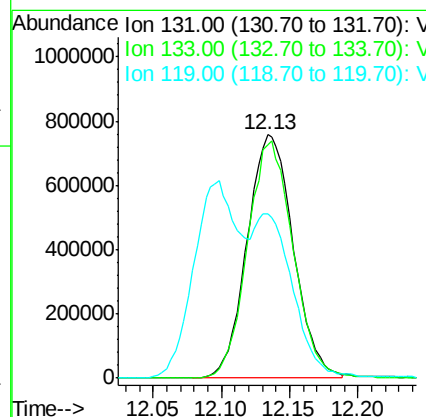
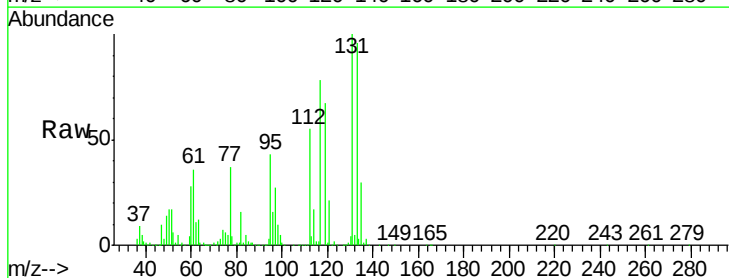
Manual Integrations  
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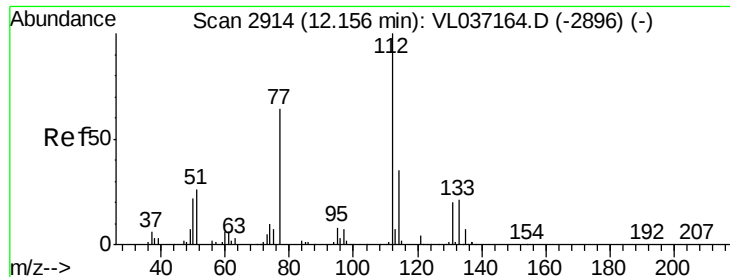
MMDadoda  
6/17/2021 5:37:29 PM



#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.560 ppbv  
RT: 12.13 min Scan# 2907  
Delta R.T. -0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

Tgt Ion:131 Resp: 1778533  
Ion Ratio Lower Upper  
131 100  
133 96.7 76.5 114.7  
119 56.7 48.6 72.8





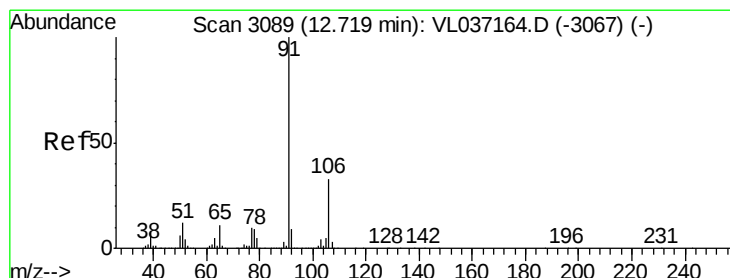
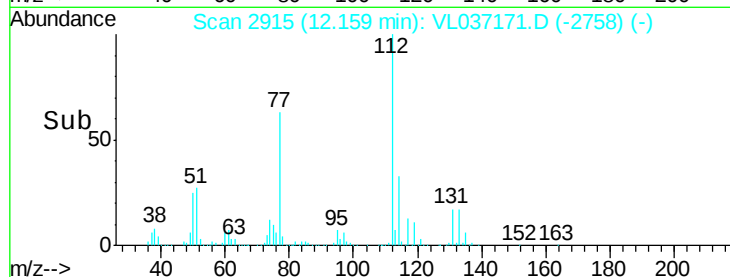
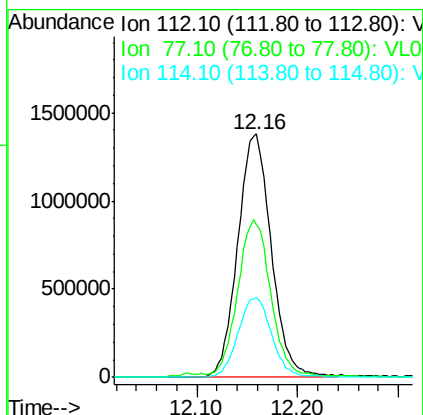
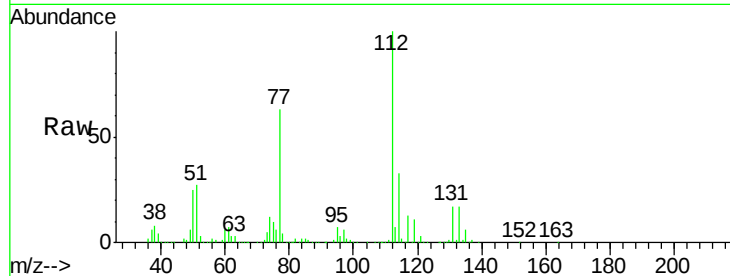
#57  
Chlorobenzene  
Concen: 9.231 ppbv  
RT: 12.16 min Scan# 2915  
Delta R.T. 0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL061621

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 62.0  | 52.2  | 78.4  |
| 114     | 32.9  | 31.1  | 38.1  |

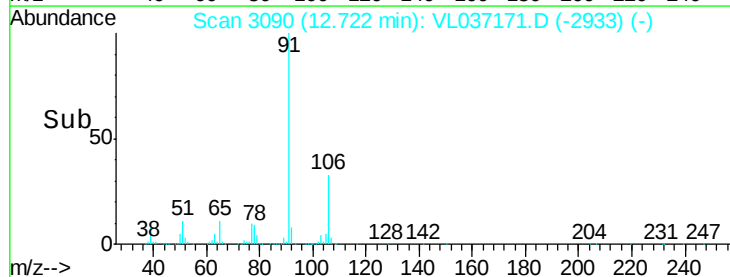
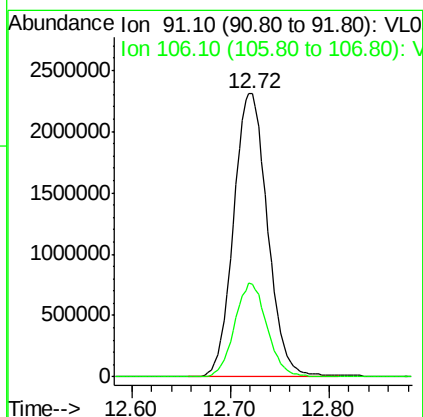
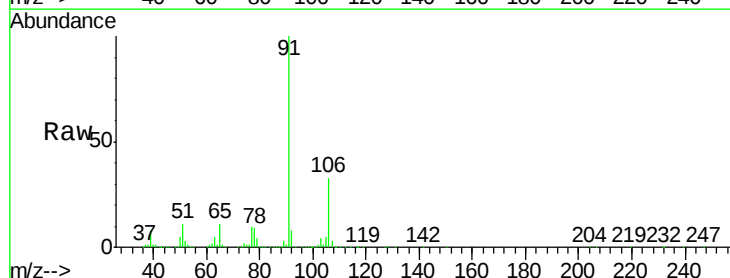
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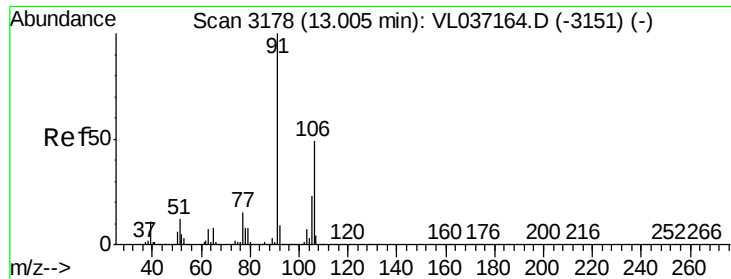
MMDadoda  
6/17/2021 5:37:29 PM



#58  
Ethyl Benzene  
Concen: 9.406 ppbv  
RT: 12.72 min Scan# 3090  
Delta R.T. 0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 32.8  | 26.3  | 39.5  |





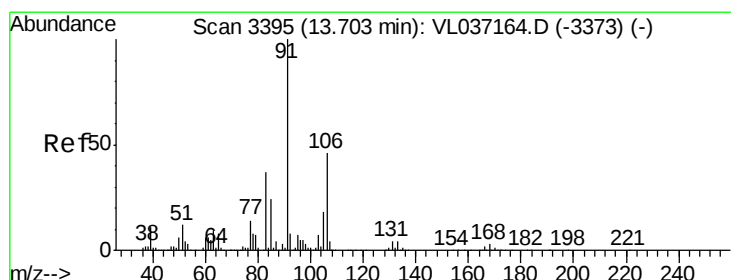
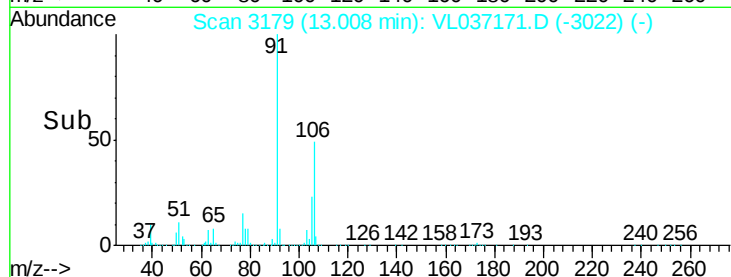
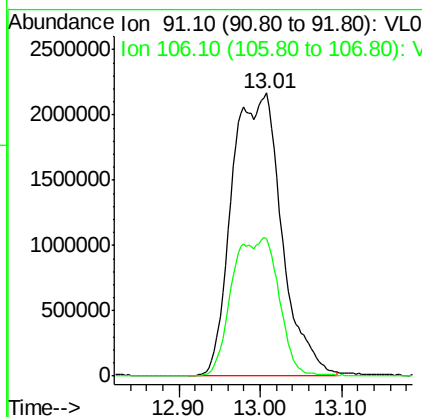
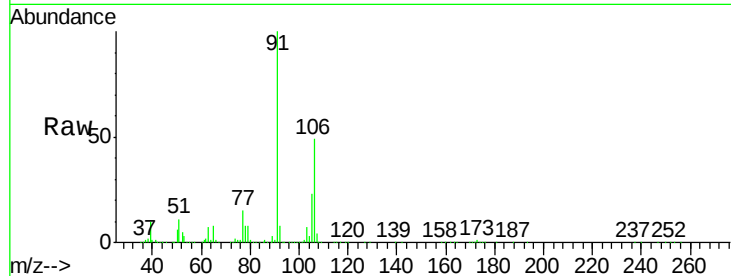
#59  
m/p-Xylene  
Concen: 18.657 ppbv m  
RT: 13.01 min Scan# 3179  
Delta R.T. 0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL061621

Tot Ion: 91 Resp: 9260840  
Ion Ratio Lower Upper  
91 100  
106 46.2 37.0 55.4

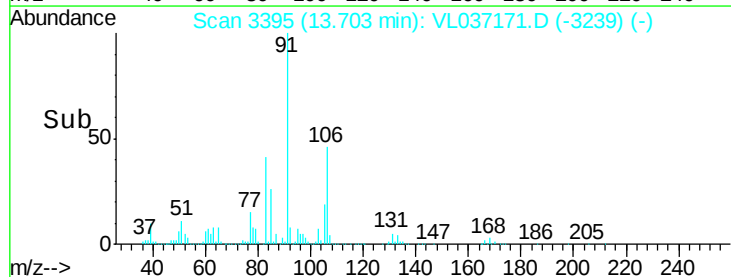
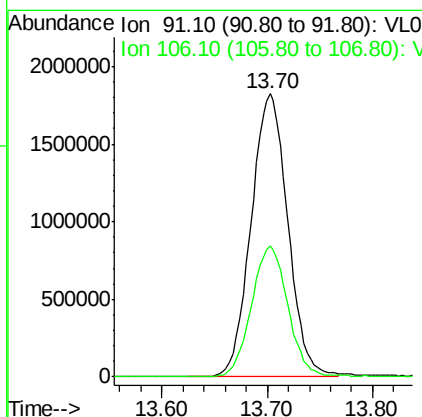
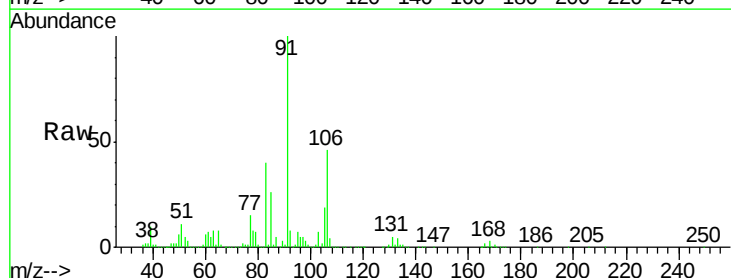
Manual Integrations  
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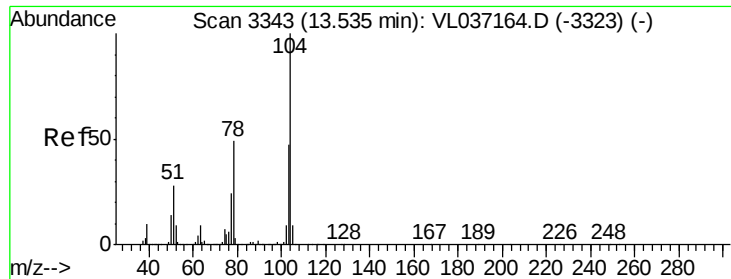
MMDadoda  
6/17/2021 5:37:29 PM



#60  
o-Xylene  
Concen: 9.329 ppbv  
RT: 13.70 min Scan# 3395  
Delta R.T. 0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

Tgt Ion: 91 Resp: 4409502  
Ion Ratio Lower Upper  
91 100  
106 46.3 23.0 69.0





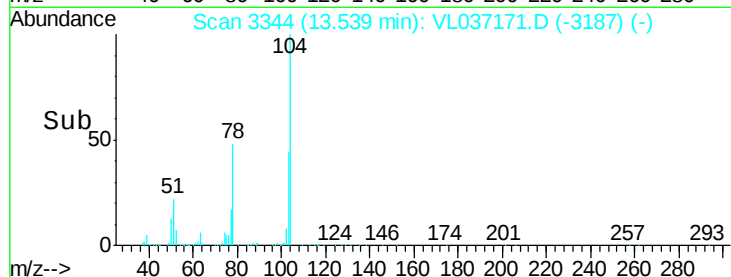
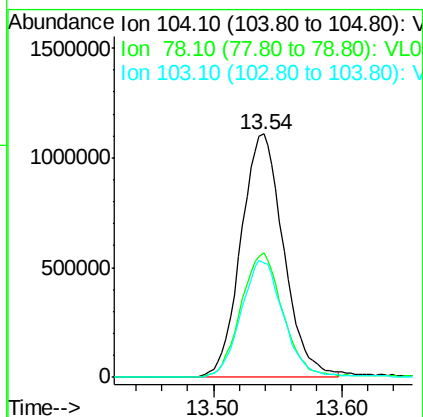
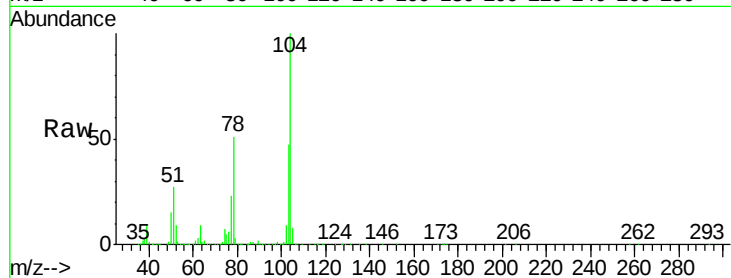
#61  
Stvrene  
Concen: 10.435 ppbv  
RT: 13.54 min Scan# 3344  
Delta R.T. 0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL061621

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 51.3  | 39.7  | 59.5  |
| 103     | 48.5  | 37.6  | 56.4  |

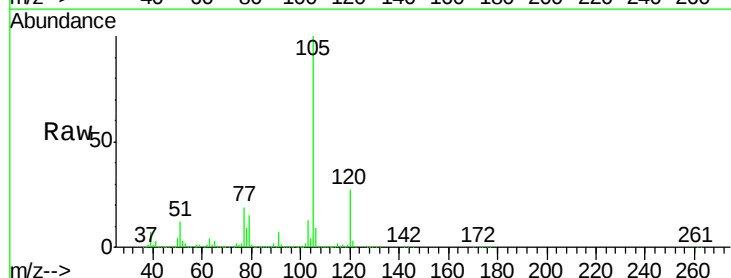
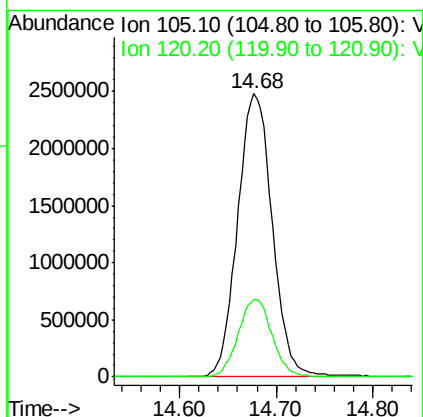
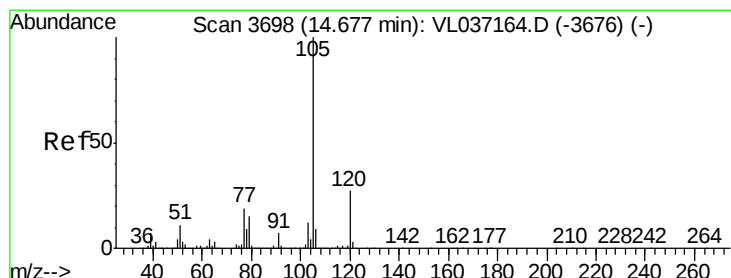
Manual Integrations  
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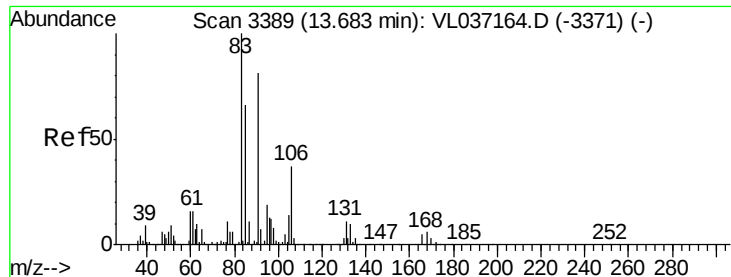
MMDadoda  
6/17/2021 5:37:29 PM



#62  
Isopropylbenzene  
Concen: 9.182 ppbv  
RT: 14.68 min Scan# 3698  
Delta R.T. 0.00 min  
Lab File: VL037171.D  
Acq: 16 Jun 2021 14:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 27.0  | 21.6  | 32.4  |





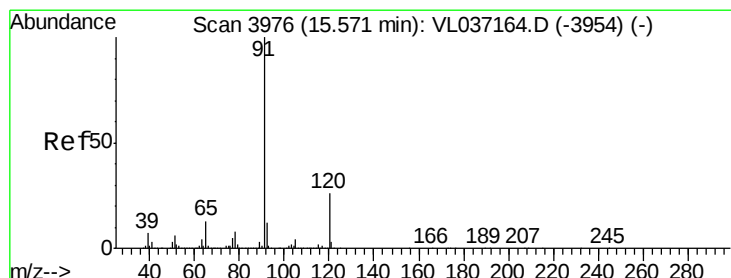
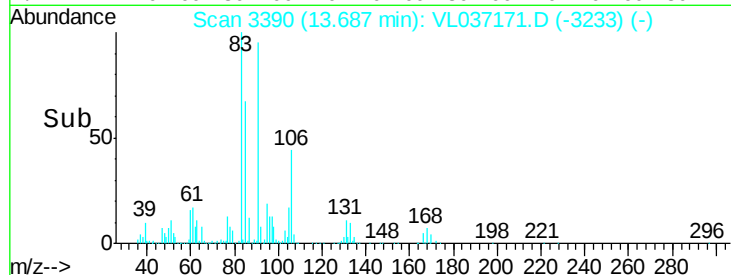
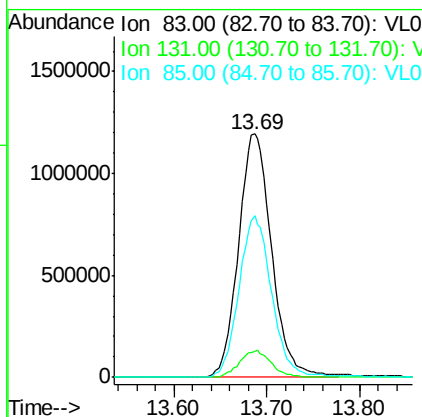
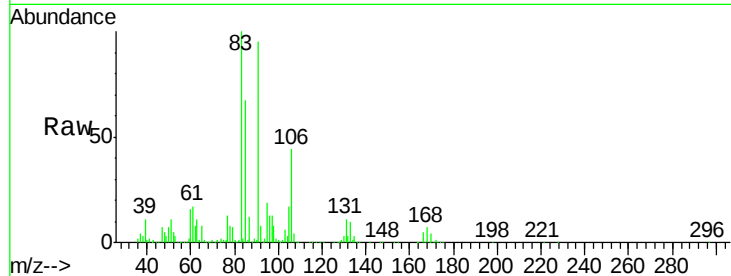
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 9.386 ppbv  
 RT: 13.69 min Scan# 3390  
 Delta R.T. 0.00 min  
 Lab File: VL037171.D  
 Acq: 16 Jun 2021 14:27

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL061621

Tot Ion: 83 Resp: 2953895  
 Ion Ratio Lower Upper  
 83 100  
 131 10.8 5.4 16.2  
 85 65.8 33.1 99.2

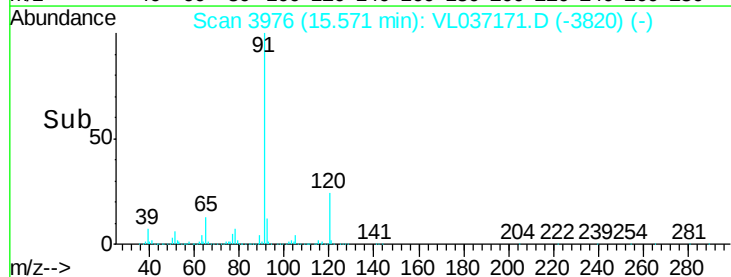
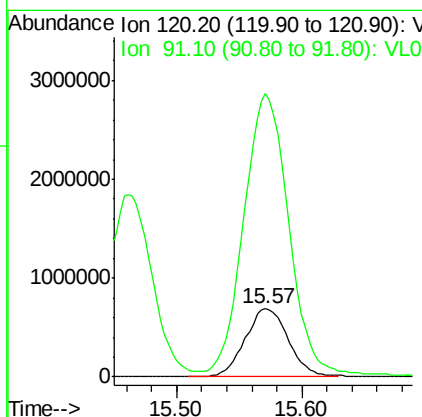
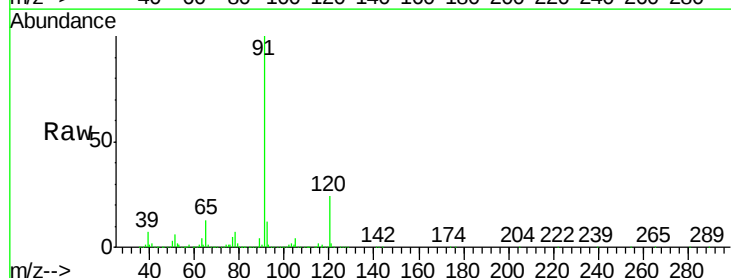
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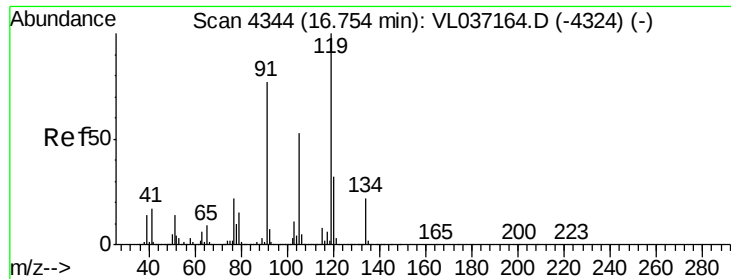
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#64  
 n-propylbenzene  
 Concen: 9.859 ppbv  
 RT: 15.57 min Scan# 3976  
 Delta R.T. 0.00 min  
 Lab File: VL037171.D  
 Acq: 16 Jun 2021 14:27

Tgt Ion: 120 Resp: 1659365  
 Ion Ratio Lower Upper  
 120 100  
 91 435.0 343.3 514.9





#65

tert-Butylbenzene

Concen: 9.429 ppbv

RT: 16.75 min Scan# 4344

Delta R.T. 0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

Instrument :

MSVOA\_L

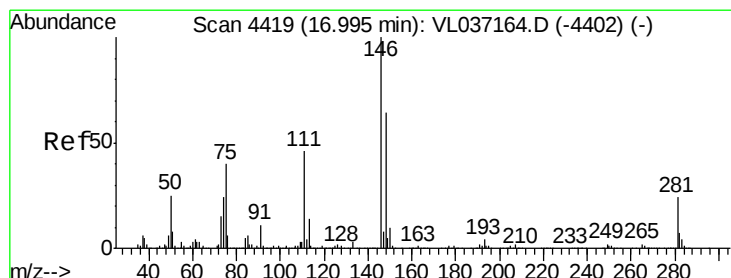
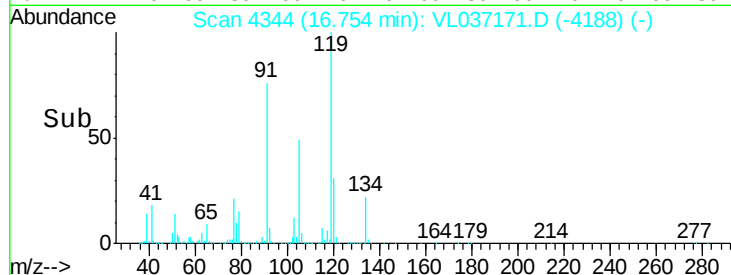
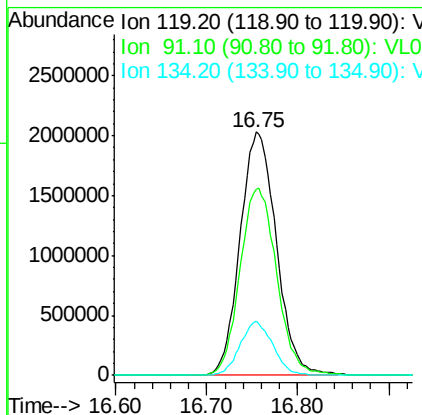
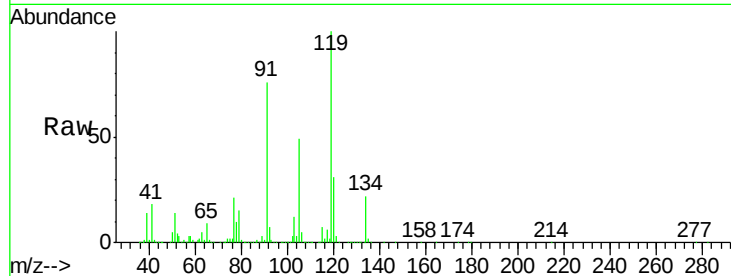
ClientSampleId :

ICVVL061621

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 119   | Resp: | 5620611 |
| Ion      | Ratio | Lower | Upper   |
| 119      | 100   |       |         |
| 91       | 78.0  | 62.6  | 93.8    |
| 134      | 20.2  | 16.2  | 24.4    |

Manual Integrations  
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#66

Benzyl Chloride

Concen: 11.062 ppbv

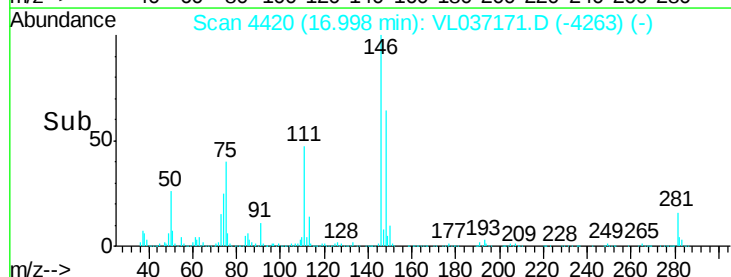
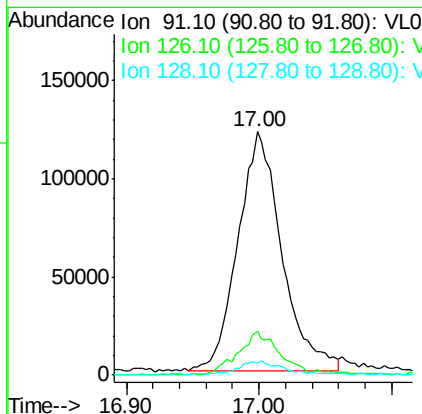
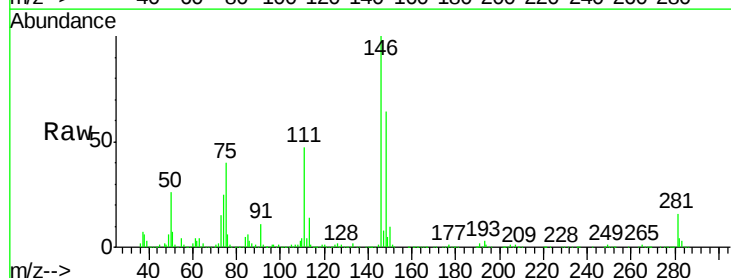
RT: 17.00 min Scan# 4420

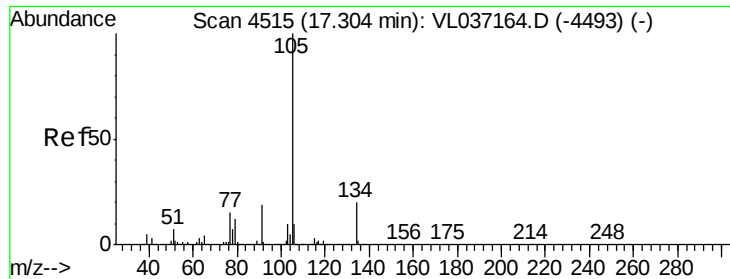
Delta R.T. 0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 279437 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 126      | 18.6  | 15.5  | 23.3   |
| 128      | 5.8   | 5.7   | 8.5    |





#67

sec-Butylbenzene

Concen: 9.441 ppbv

RT: 17.30 min Scan# 4515

Delta R.T. 0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL061621

Tot Ion: 105 Resp: 7504152

Ion Ratio Lower Upper

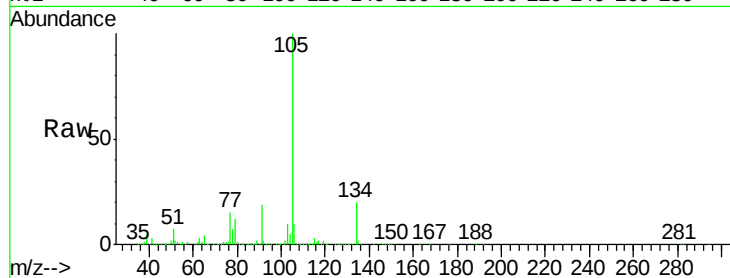
105 100

134 19.6 15.8 23.6

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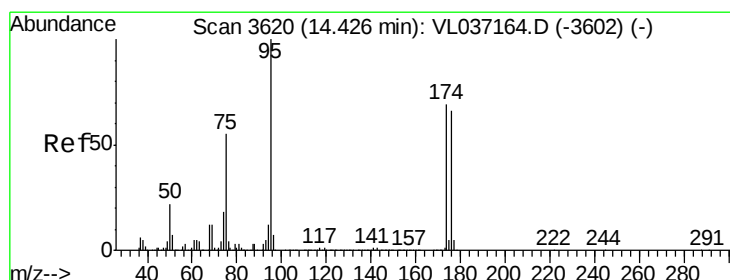
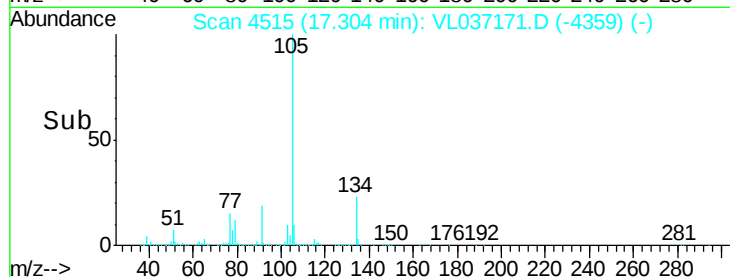
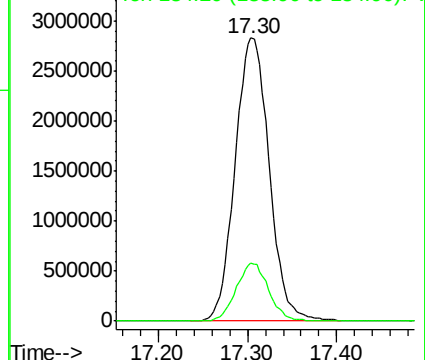
MMDadoda

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.261 ppbv

RT: 14.43 min Scan# 3620

Delta R.T. 0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

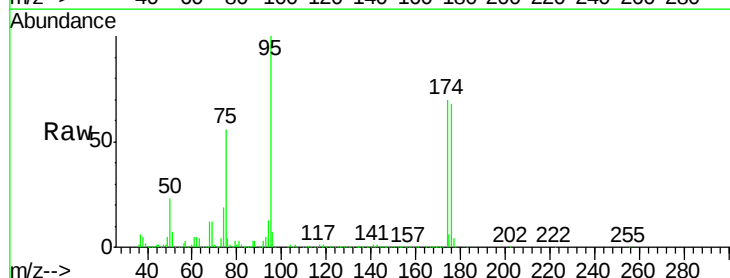
Tgt Ion: 95 Resp: 3308249

Ion Ratio Lower Upper

95 100

174 71.7 57.0 85.4

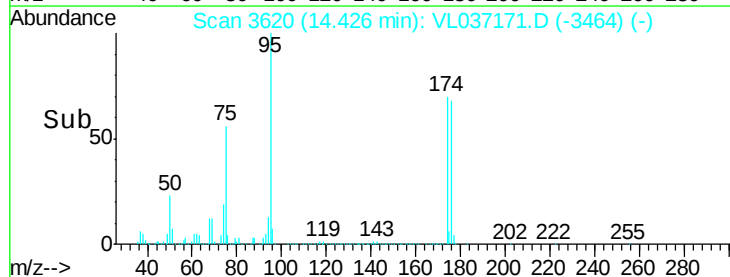
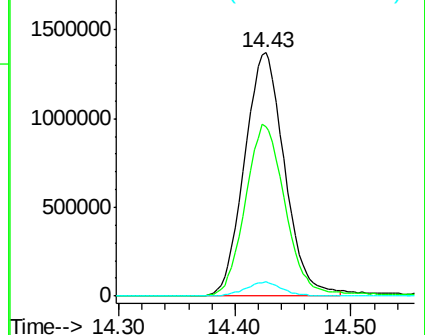
175 5.4 4.4 6.6

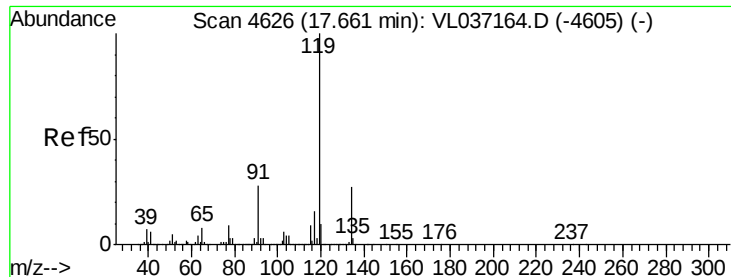


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





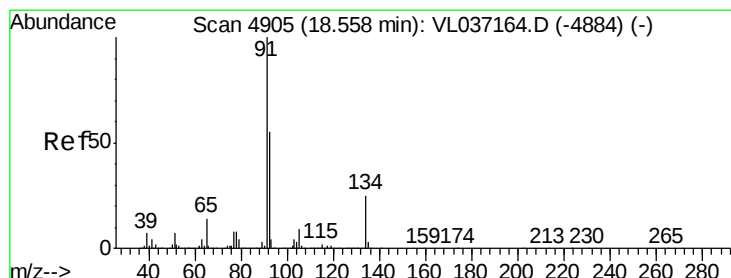
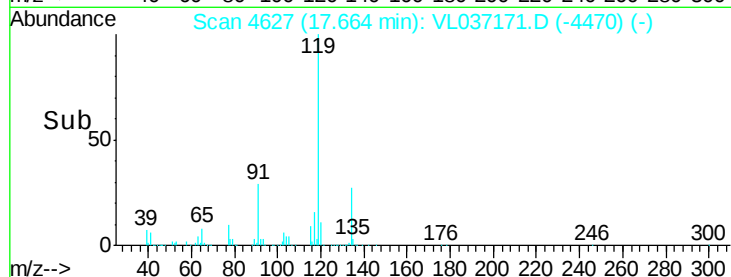
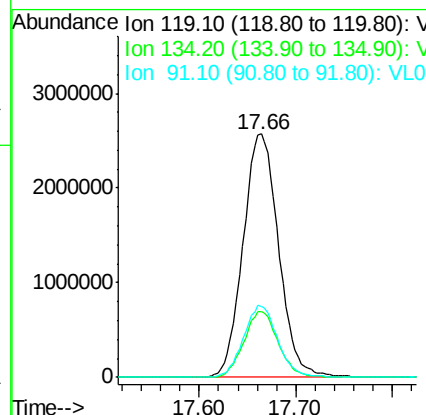
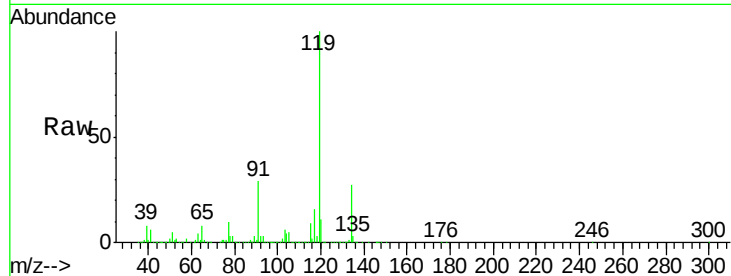
#69  
 p-Isopropyltoluene  
 Concen: 9.752 ppbv  
 RT: 17.66 min Scan# 4627  
 Delta R.T. 0.00 min  
 Lab File: VL037171.D  
 Acq: 16 Jun 2021 14:27

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL061621

Tot Ion: 119 Resp: 6547482  
 Ion Ratio Lower Upper  
 119 100  
 134 26.4 20.9 31.3  
 91 28.3 22.6 34.0

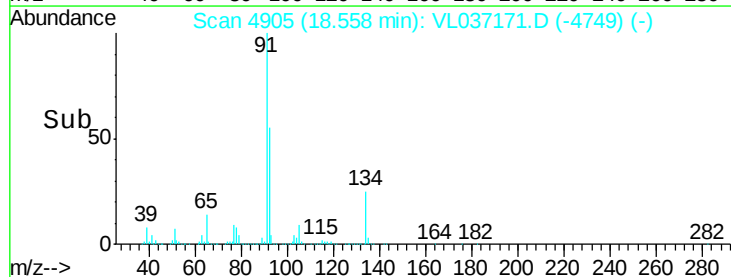
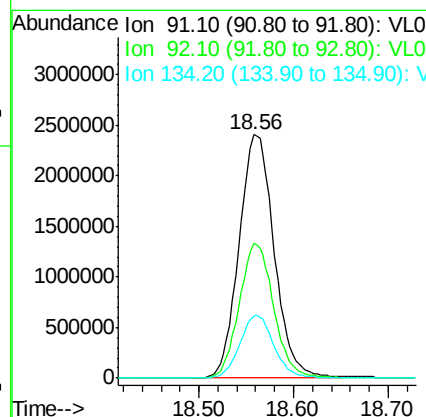
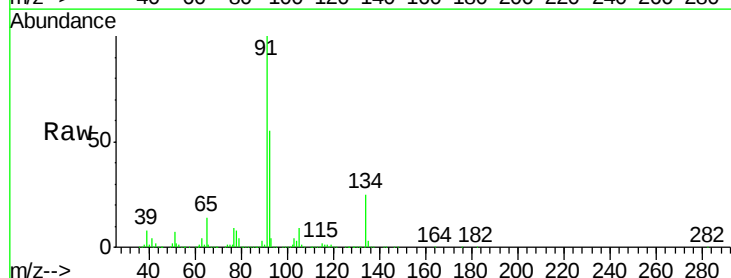
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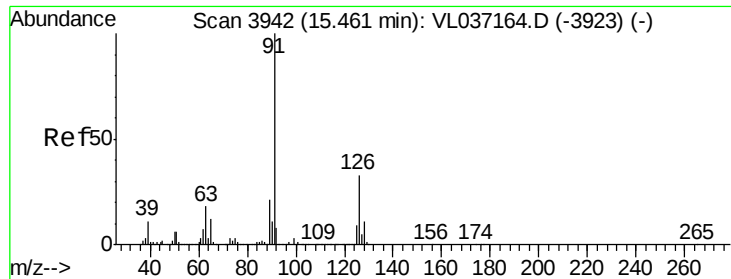
MMDadoda  
 6/17/2021 5:37:29 PM



#70  
 n-Butylbenzene  
 Concen: 9.987 ppbv  
 RT: 18.56 min Scan# 4905  
 Delta R.T. 0.00 min  
 Lab File: VL037171.D  
 Acq: 16 Jun 2021 14:27

Tgt Ion: 91 Resp: 6206043  
 Ion Ratio Lower Upper  
 91 100  
 92 54.8 44.0 66.0  
 134 25.2 20.2 30.4





#71

2-Chlorotoluene

Concen: 9.661 ppbv

RT: 15.46 min Scan# 3942

Delta R.T. 0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL061621

Tot Ion: 91 Resp: 4539862

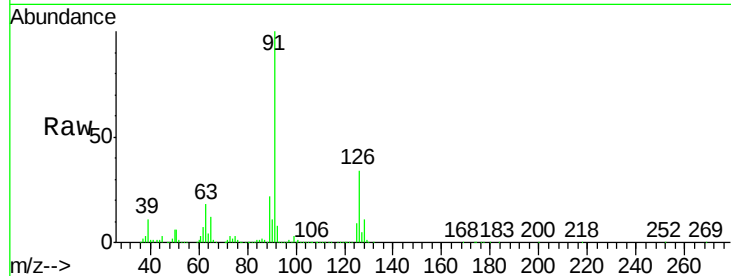
Ion Ratio Lower Upper

91 100

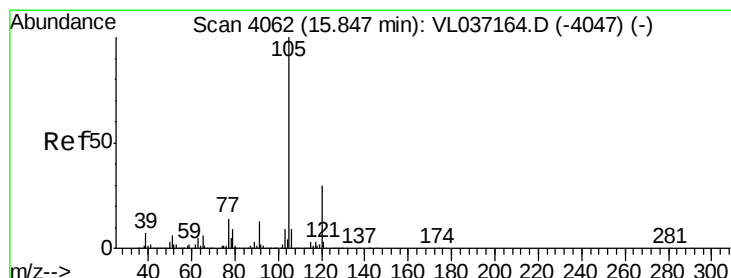
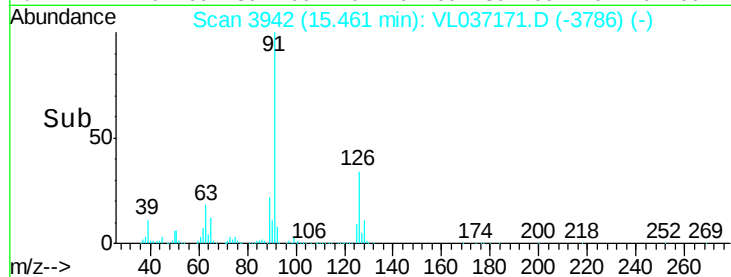
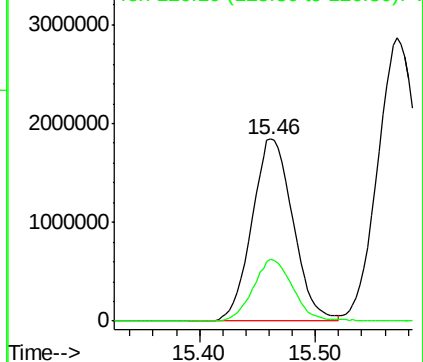
126 33.4 13.5 54.1

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: 9.836 ppbv

RT: 15.85 min Scan# 4062

Delta R.T. 0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

Tgt Ion: 105 Resp: 5281220

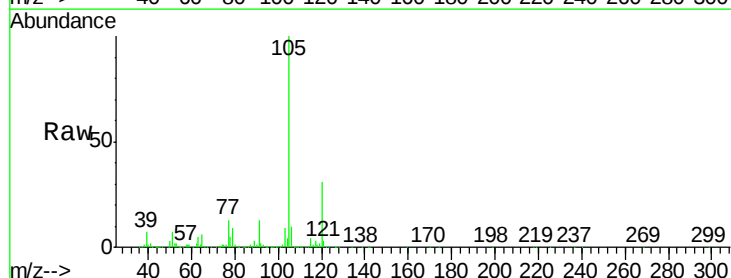
Ion Ratio Lower Upper

105 100

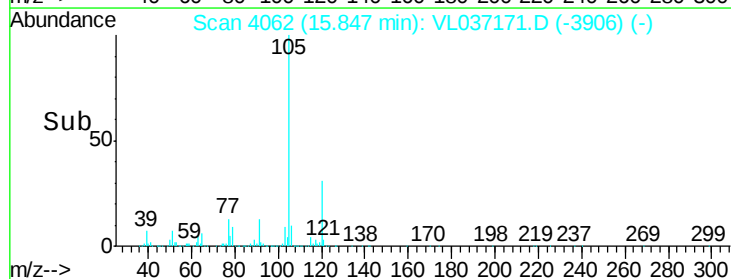
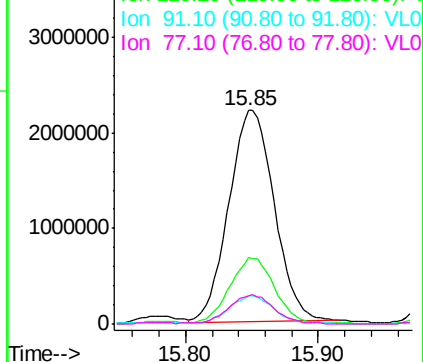
120 32.7 24.7 37.1

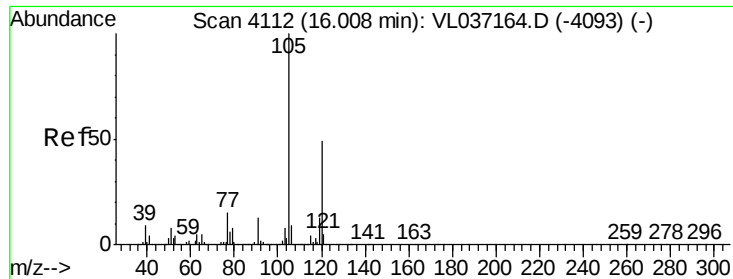
91 13.0 10.2 15.4

77 13.9 11.0 16.6



Abundance Ion 105.10 (104.80 to 105.80): V  
Ion 120.20 (119.90 to 120.90): V  
Ion 91.10 (90.80 to 91.80): VL0  
Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 9.456 ppbv

RT: 16.01 min Scan# 4112

Delta R.T. 0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL061621

Tot Ion:105 Resp: 4907779

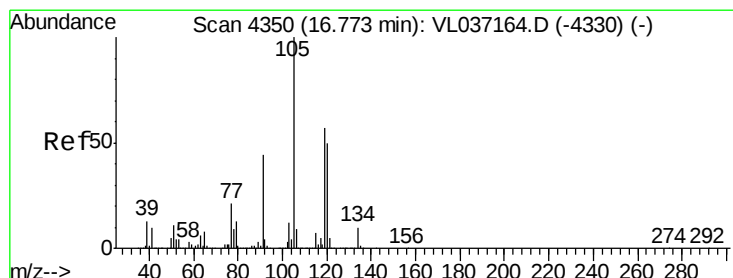
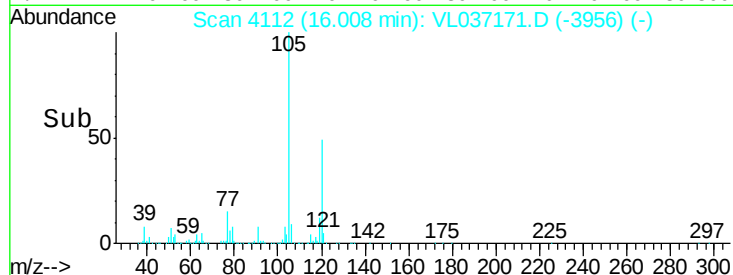
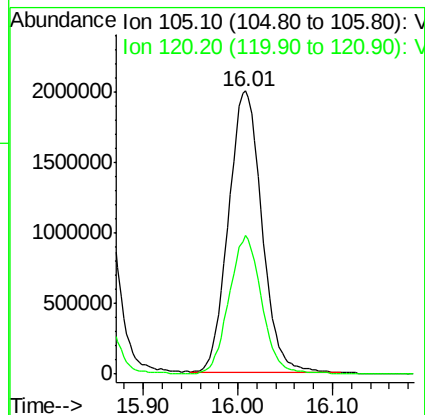
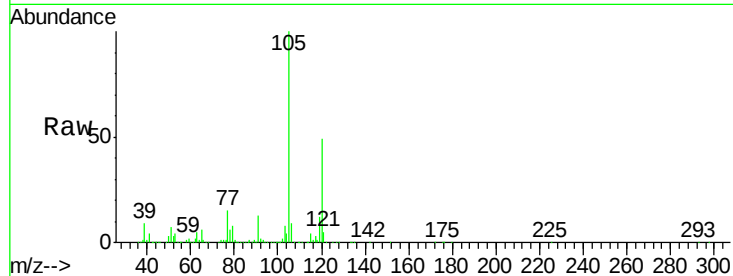
Ion Ratio Lower Upper

105 100

120 49.0 39.4 59.2

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#74

1,2,4-Trimethylbenzene

Concen: 9.564 ppbv

RT: 16.77 min Scan# 4350

Delta R.T. 0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

Tgt Ion:105 Resp: 5114841

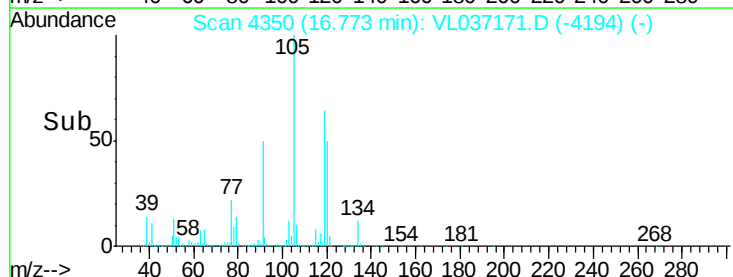
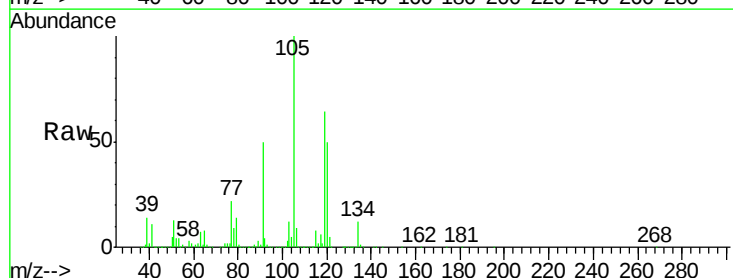
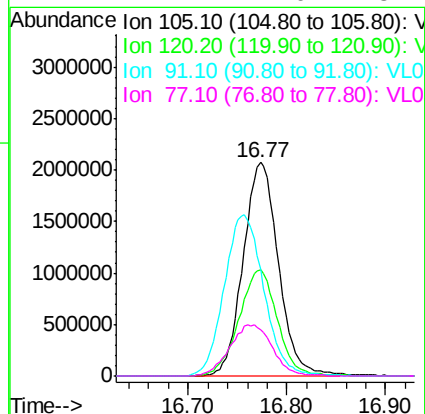
Ion Ratio Lower Upper

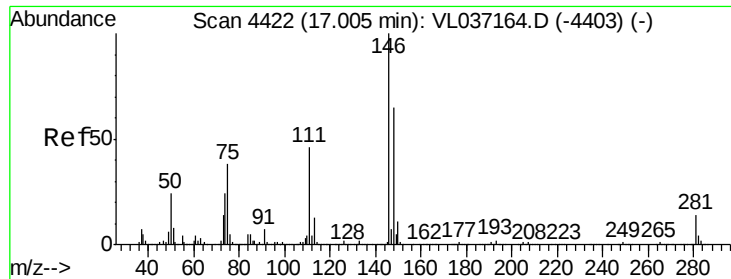
105 100

120 49.9 39.8 59.8

91 49.3 37.0 55.4

77 21.7 17.0 25.4





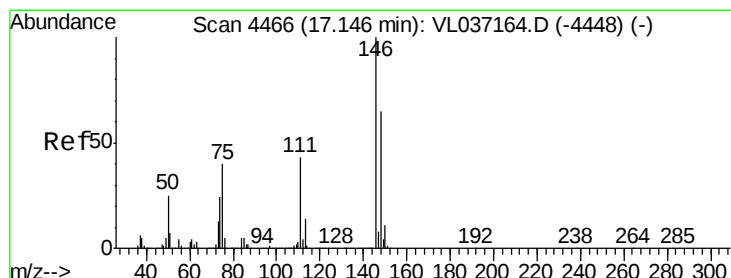
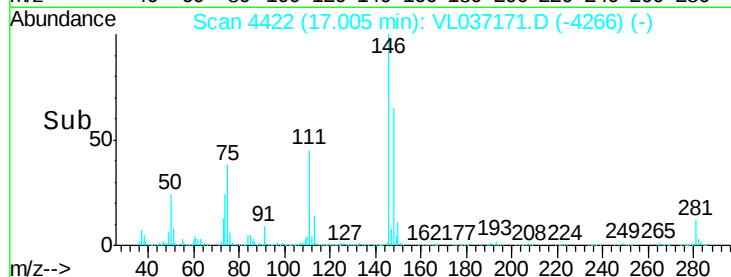
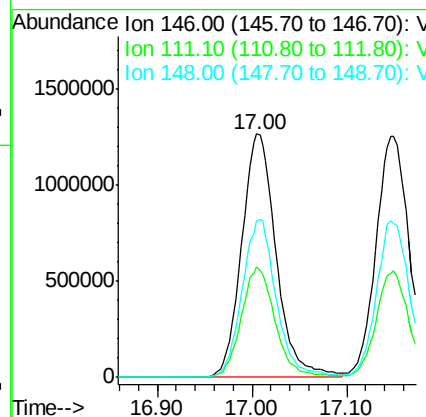
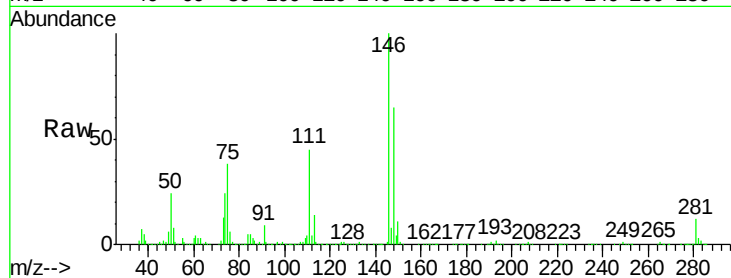
#75  
 1,3-Dichlorobenzene  
 Concen: 9.847 ppbv  
 RT: 17.00 min Scan# 4422  
 Delta R.T. 0.00 min  
 Lab File: VL037171.D  
 Acq: 16 Jun 2021 14:27

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL061621

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 44.6  | 22.2  | 66.6  |
| 148     | 64.3  | 32.4  | 97.2  |

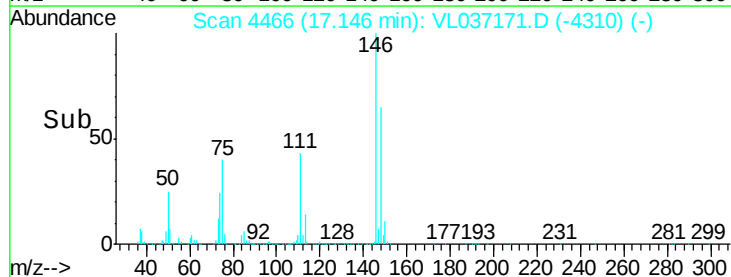
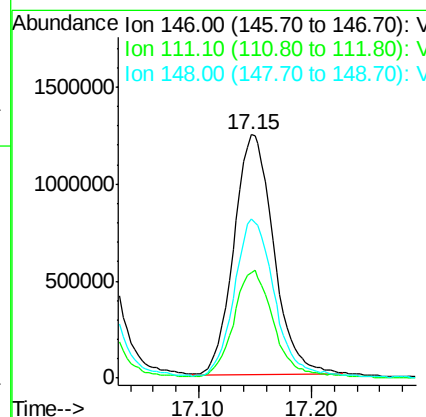
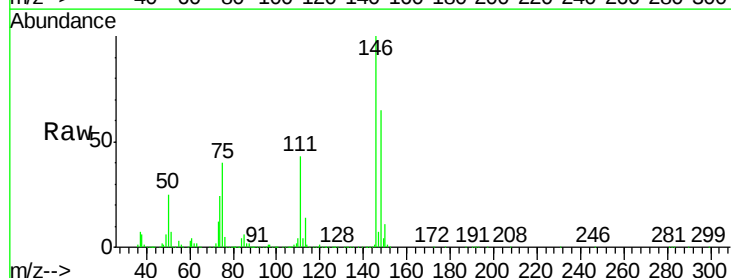
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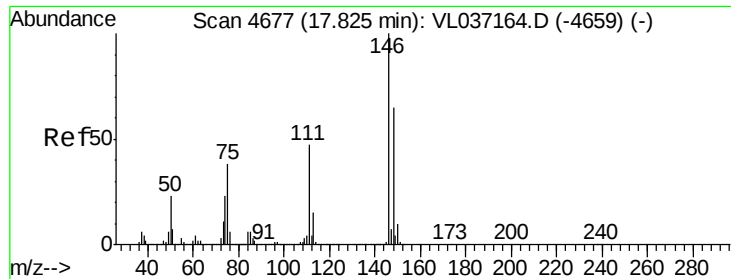
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#76  
 1,4-Dichlorobenzene  
 Concen: 9.358 ppbv  
 RT: 17.15 min Scan# 4466  
 Delta R.T. 0.00 min  
 Lab File: VL037171.D  
 Acq: 16 Jun 2021 14:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 45.2  | 22.7  | 68.0  |
| 148     | 67.9  | 33.7  | 101.1 |





#77

1,2-Dichlorobenzene

Concen: 9.653 ppbv

RT: 17.83 min Scan# 4678

Delta R.T. 0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL061621

Tot Ion:146 Resp: 3036512

Ion Ratio Lower Upper

146 100

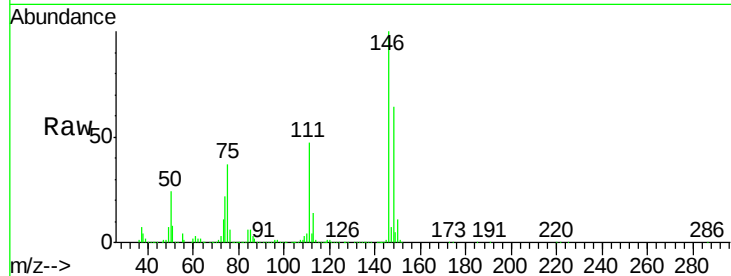
111 46.5 23.3 69.8

148 65.3 32.4 97.0

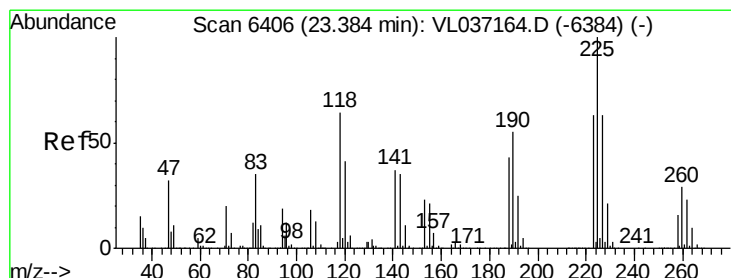
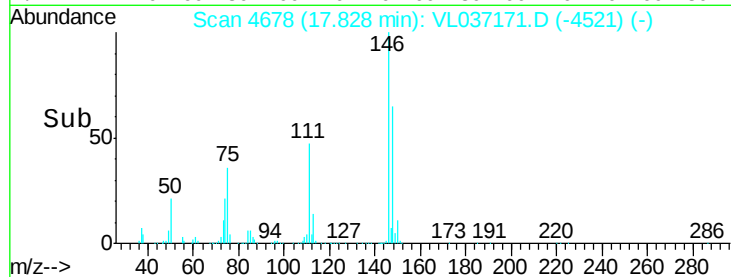
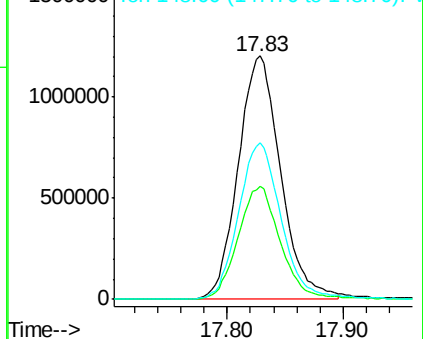
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Abundance Ion 146.00 (145.70 to 146.70): V  
Ion 111.10 (110.80 to 111.80): V  
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 7.521 ppbv

RT: 23.39 min Scan# 6407

Delta R.T. 0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

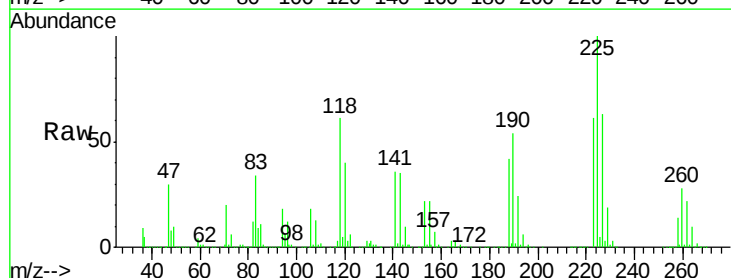
Tgt Ion:225 Resp: 2034047

Ion Ratio Lower Upper

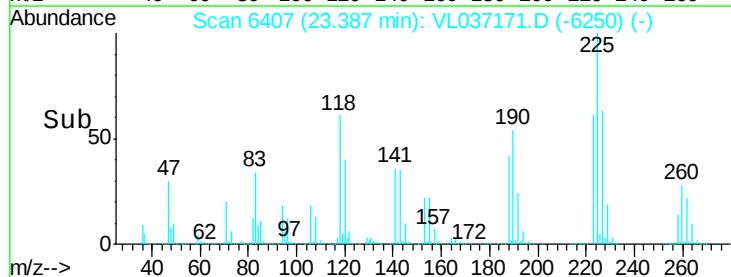
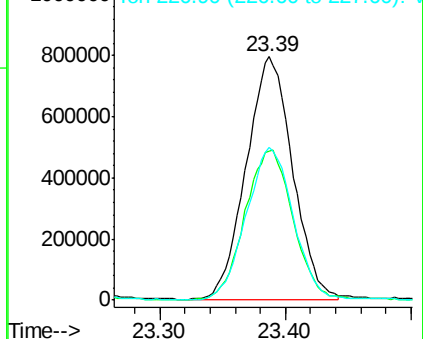
225 100

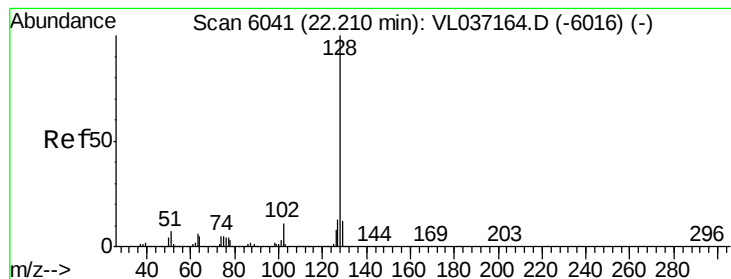
223 65.4 51.8 77.8

227 64.6 51.4 77.0



Abundance Ion 224.90 (224.60 to 225.60): V  
Ion 222.90 (222.60 to 223.60): V  
Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 9.074 ppbv

RT: 22.21 min Scan# 6040

Delta R.T. -0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL061621

Tot Ion:128 Resp: 4046110

Ion Ratio Lower Upper

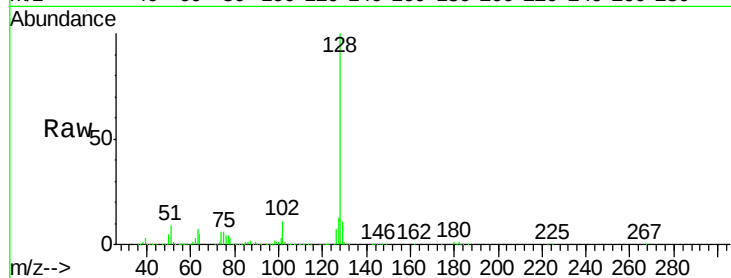
128 100

127 13.2 10.7 16.1

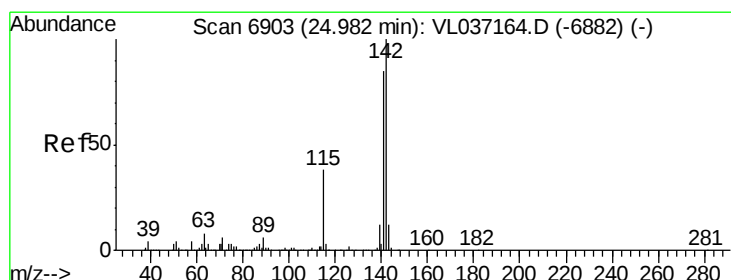
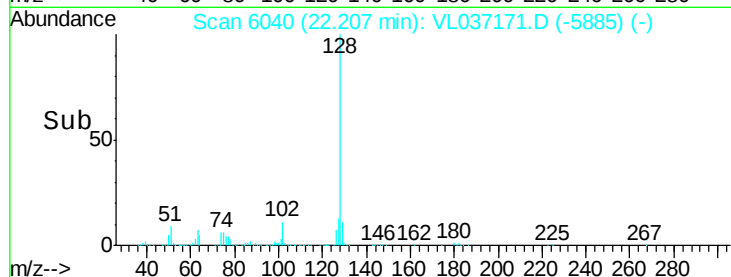
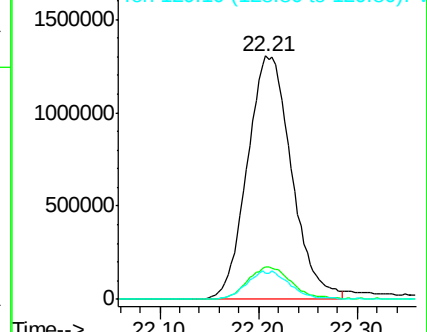
129 10.5 9.3 13.9

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Abundance Ion 128.10 (127.80 to 128.80): V  
Ion 127.10 (126.80 to 127.80): V  
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 11.537 ppbv

RT: 24.98 min Scan# 6903

Delta R.T. 0.00 min

Lab File: VL037171.D

Acq: 16 Jun 2021 14:27

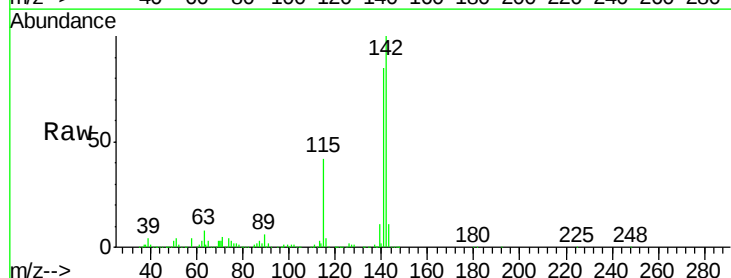
Tgt Ion:142 Resp: 1349119

Ion Ratio Lower Upper

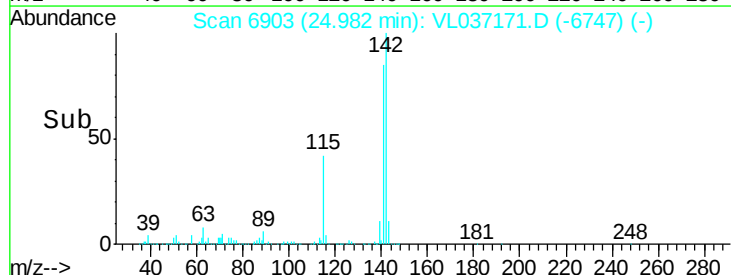
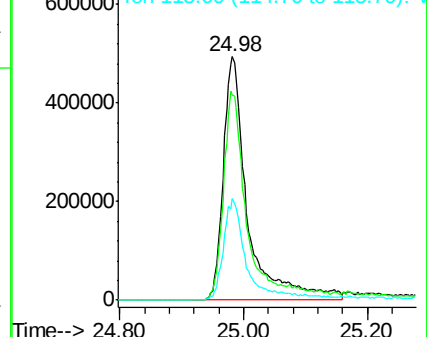
142 100

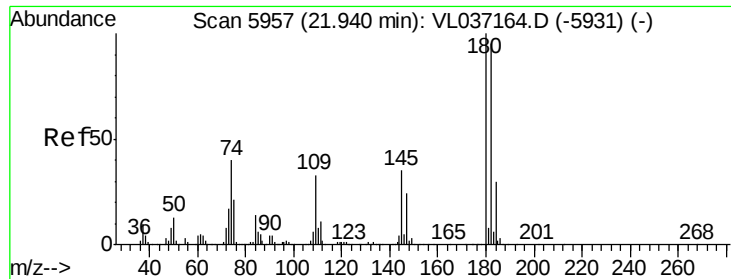
141 84.6 63.7 95.5

115 42.8 30.6 45.8



Abundance Ion 142.00 (141.70 to 142.70): V  
Ion 141.00 (140.70 to 141.70): V  
Ion 115.00 (114.70 to 115.70): V





#81  
 1,2,4-Trichlorobenzene  
 Concen: 8.869 ppbv  
 RT: 21.94 min Scan# 5956  
 Delta R.T. -0.00 min  
 Lab File: VL037171.D  
 Acq: 16 Jun 2021 14:27

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL061621

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.0  | 79.3  | 118.9 |
| 184     | 31.0  | 24.7  | 37.1  |

Manual Integrations  
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