

Data Path : Y:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081621\  
 Data File : VL037462.D  
 Acq On : 16 Aug 2021 15:12  
 Operator : SY/AP  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081621

Manual Integrations  
 APPROVED

MMDadoda  
 8/19/2021 5:59:21 PM

Quant Time: Aug 16 16:24:51 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Aug 16 2021  
 QLast Update : Mon Aug 16 14:55:18 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1570716  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 4617746  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 4187195m | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.40  | 95    | 3066609  | 10.31    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 103.10% |

| Target Compounds               | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.04 | 85   | 2197063  | 8.718 | ppbv   | 95     |
| 3) Chlorodifluoromethane       | 2.98 | 51   | 2649945  | 8.810 | ppbv   | 99     |
| 4) Chloromethane               | 3.13 | 50   | 991819   | 9.228 | ppbv   | 94     |
| 5) Vinyl Chloride              | 3.25 | 62   | 983808   | 8.934 | ppbv   | 93     |
| 6) Bromomethane                | 3.47 | 94   | 468467   | 7.767 | ppbv   | 98     |
| 7) Chloroethane                | 3.55 | 64   | 343072   | 9.128 | ppbv   | 98     |
| 8) Dichlorotetrafluoroethane   | 3.18 | 85   | 2285558  | 8.785 | ppbv   | 99     |
| 9) Propene                     | 3.00 | 41   | 952198   | 8.848 | ppbv   | 97     |
| 10) Heptane                    | 8.10 | 43   | 2378315  | 9.601 | ppbv   | 98     |
| 11) Trichlorofluoromethane     | 3.94 | 101  | 2111601  | 8.926 | ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.47 | 101  | 1529912  | 8.813 | ppbv   | 97     |
| 13) Ethanol                    | 3.60 | 45   | 92723m   | 8.854 | ppbv   |        |
| 14) Bromoethene                | 3.73 | 108  | 717498   | 9.104 | ppbv   | 98     |
| 15) Acetone                    | 3.84 | 43   | 1174633  | 7.348 | ppbv   | 99     |
| 16) 1,3-Butadiene              | 3.32 | 39   | 972112   | 9.480 | ppbv   | 98     |
| 17) tert-Butyl alcohol         | 4.27 | 59   | 1424638  | 9.756 | ppbv   | 99     |
| 18) 1,1-Dichloroethene         | 4.28 | 96   | 686242   | 8.703 | ppbv   | 99     |
| 19) Isopropyl Alcohol          | 3.95 | 45   | 818157   | 8.934 | ppbv # | 98     |
| 20) Methylene Chloride         | 4.33 | 84   | 598774   | 7.481 | ppbv   | 96     |
| 21) Allyl Chloride             | 4.40 | 41   | 1096416  | 8.445 | ppbv   | 94     |
| 22) trans-1,2-Dichloroethene   | 4.87 | 96   | 690345   | 8.775 | ppbv   | 95     |
| 23) Vinyl Acetate              | 5.06 | 43   | 2188456  | 9.288 | ppbv   | 99     |
| 24) 1,1-Dichloroethane         | 5.00 | 63   | 1498307  | 8.768 | ppbv   | 99     |
| 25) Ethyl Acetate              | 5.66 | 43   | 3712855  | 9.149 | ppbv   | 99     |
| 26) Hexane                     | 5.67 | 57   | 1772712  | 8.934 | ppbv   | 98     |
| 27) Carbon Disulfide           | 4.54 | 76   | 1680060  | 9.501 | ppbv   | 98     |
| 28) Methyl tert-Butyl Ether    | 5.02 | 73   | 1762977  | 9.252 | ppbv   | 99     |
| 29) Chloroform                 | 5.74 | 83   | 2493724  | 8.868 | ppbv   | 100    |
| 30) Cyclohexane                | 7.11 | 84   | 1508837  | 9.127 | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene     | 5.53 | 61   | 1699362  | 9.463 | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane      | 6.50 | 97   | 2484364  | 8.992 | ppbv   | 99     |
| 34) 2-Butanone                 | 5.23 | 43   | 1603588  | 9.057 | ppbv   | 95     |
| 35) Carbon Tetrachloride       | 7.01 | 117  | 2571258  | 9.422 | ppbv   | 98     |
| 36) Benzene                    | 6.88 | 78   | 3670403  | 9.455 | ppbv   | 99     |
| 37) 1,2-Dichloroethane         | 6.29 | 62   | 1820934  | 9.470 | ppbv   | 99     |
| 38) Trichloroethene            | 7.82 | 130  | 1436506  | 9.019 | ppbv   | 96     |
| 39) 1,2-Dichloropropane        | 7.60 | 63   | 1392337  | 9.334 | ppbv   | 97     |
| 40) 1,4-Dioxane                | 7.82 | 88   | 359852m  | 9.847 | ppbv   |        |
| 41) Tetrahydrofuran            | 6.03 | 42   | 878822   | 9.675 | ppbv   | 99     |
| 42) Bromodichloromethane       | 7.78 | 83   | 2732830  | 9.720 | ppbv   | 98     |
| 43) Methyl Methacrylate        | 8.00 | 69   | 1340996  | 9.911 | ppbv   | 100    |

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 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081621

Manual Integrations  
 APPROVED

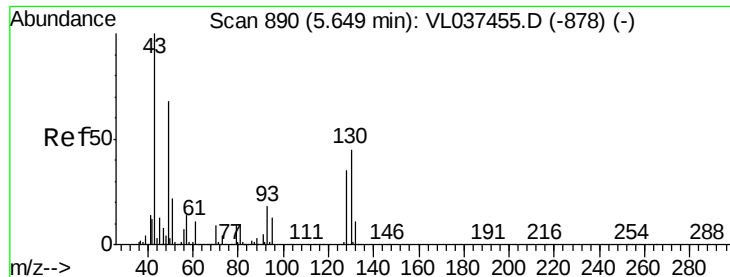
MMDadoda  
 8/19/2021 5:59:21 PM

Quant Time: Aug 16 16:24:51 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Aug 16 2021  
 QLast Update : Mon Aug 16 14:55:18 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.85  | 57   | 6057602  | 9.272  | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.26  | 75   | 910654   | 8.941  | ppbv   | 94       |
| 46) cis-1,3-Dichloropropene   | 8.69  | 75   | 1212074  | 8.531  | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 9.46  | 97   | 1462946  | 9.077  | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.29 | 129  | 2357911  | 10.166 | ppbv   | 98       |
| 49) Bromoform                 | 13.02 | 173  | 1940781  | 10.615 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.73  | 43   | 2439250  | 9.916  | ppbv   | 99       |
| 51) 2-Hexanone                | 10.12 | 43   | 1155340  | 10.210 | ppbv # | 100      |
| 52) Tetrachloroethene         | 11.20 | 164  | 1352482  | 8.502  | ppbv   | 95       |
| 53) Toluene                   | 9.79  | 91   | 4256098  | 9.602  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.59 | 107  | 2100813  | 9.337  | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.11 | 131  | 1621643  | 9.294  | ppbv   | 99       |
| 57) Chlorobenzene             | 12.13 | 112  | 3096611  | 8.912  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.69 | 91   | 5429818  | 9.345  | ppbv   | 97       |
| 59) m/p-Xylene                | 12.98 | 91   | 9088071m | 18.041 | ppbv   |          |
| 60) o-Xylene                  | 13.67 | 91   | 4293318  | 9.131  | ppbv   | 99       |
| 61) Styrene                   | 13.51 | 104  | 2437502  | 9.980  | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.65 | 105  | 6054407  | 9.124  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.66 | 83   | 3088280  | 8.838  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.55 | 120  | 1620480  | 9.596  | ppbv   | 96       |
| 65) tert-Butylbenzene         | 16.73 | 119  | 5395778  | 8.929  | ppbv   | 99       |
| 66) Benzyl Chloride           | 16.97 | 91   | 270649   | 9.900  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 17.28 | 105  | 7477444  | 8.855  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.64 | 119  | 6313406  | 9.175  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.53 | 91   | 6177256  | 9.394  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.44 | 91   | 4473364  | 9.193  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.82 | 105  | 5116666  | 9.149  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.98 | 105  | 4731090  | 9.089  | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 16.74 | 105  | 4902514  | 8.863  | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 16.98 | 146  | 2964641  | 8.904  | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 17.12 | 146  | 2891465  | 8.620  | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 17.80 | 146  | 2897863  | 8.838  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.36 | 225  | 2198622  | 8.065  | ppbv   | 98       |
| 79) Naphthalene               | 22.17 | 128  | 3647150  | 9.852  | ppbv   | 100      |
| 80) Naphthalene, 2-methyl-    | 24.95 | 142  | 1014966  | 9.842  | ppbv   | 95       |
| 81) 1,2,4-Trichlorobenzene    | 21.90 | 180  | 2242021  | 9.652  | ppbv   | 98       |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. 0.01 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081621

Tot Ion: 49 Resp: 1570716

Ion Ratio Lower Upper

49 100

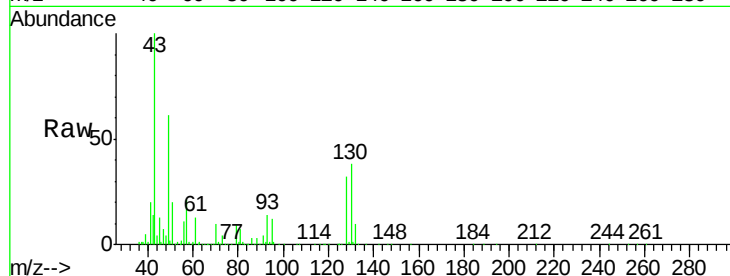
128 54.9 27.5 82.4

130 67.8 34.0 101.8

Manual Integrations  
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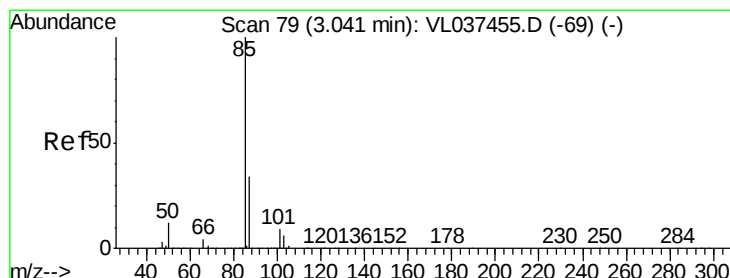
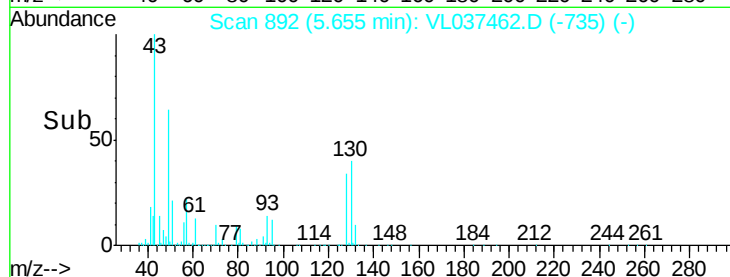
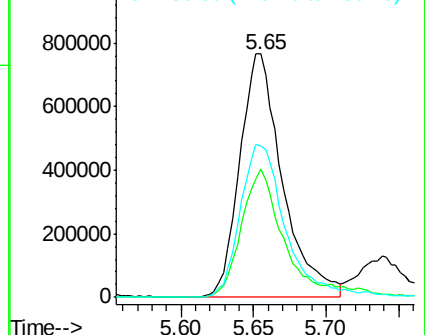
8/19/2021 5:59:21 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 8.718 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.00 min

Lab File: VL037462.D

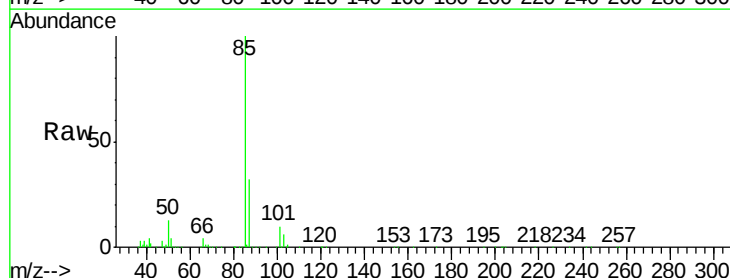
Acq: 16 Aug 2021 15:12

Tgt Ion: 85 Resp: 2197063

Ion Ratio Lower Upper

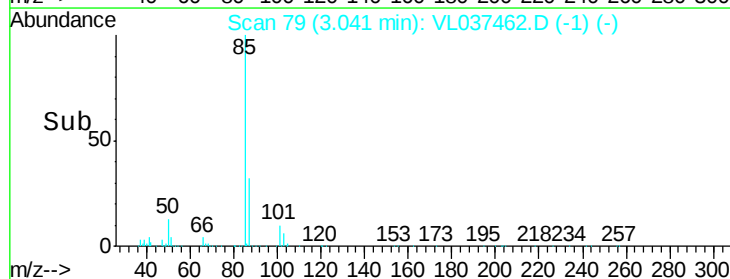
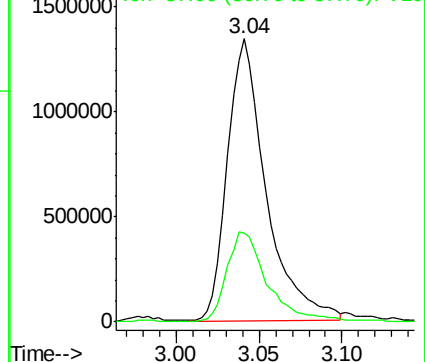
85 100

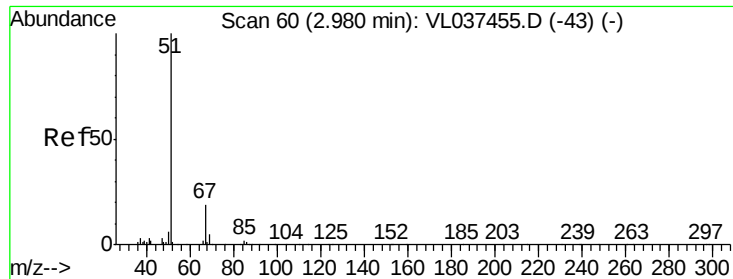
87 31.6 27.6 41.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.810 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.00 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081621

Tot Ion: 51 Resp: 2649945

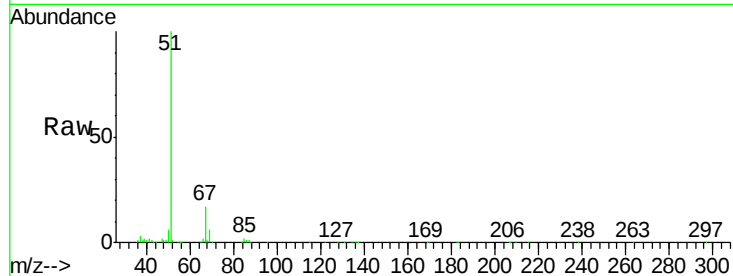
Ion Ratio Lower Upper

51 100

67 17.2 14.2 21.2

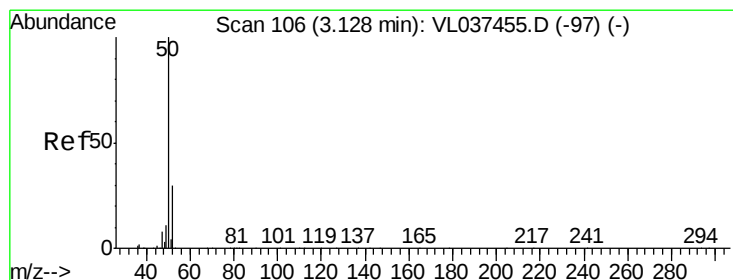
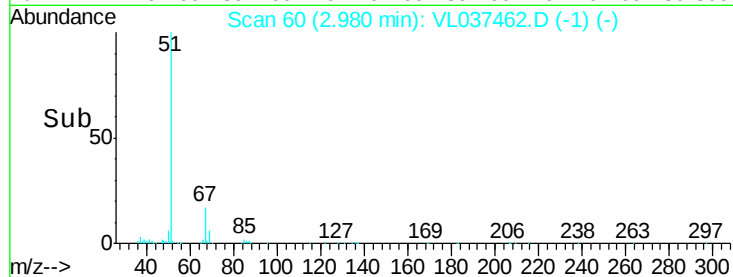
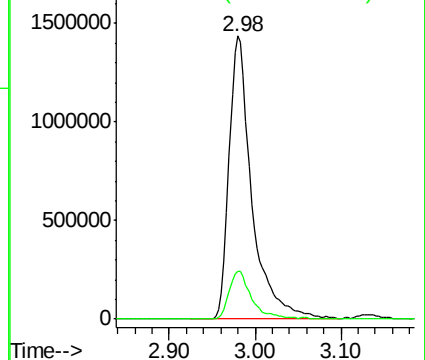
Manual Integrations  
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8/19/2021 5:59:21 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.228 ppbv

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL037462.D

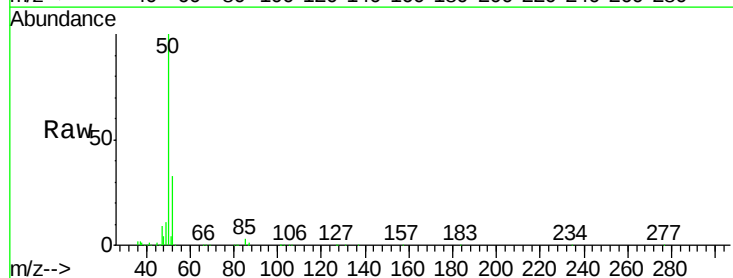
Acq: 16 Aug 2021 15:12

Tgt Ion: 50 Resp: 991819

Ion Ratio Lower Upper

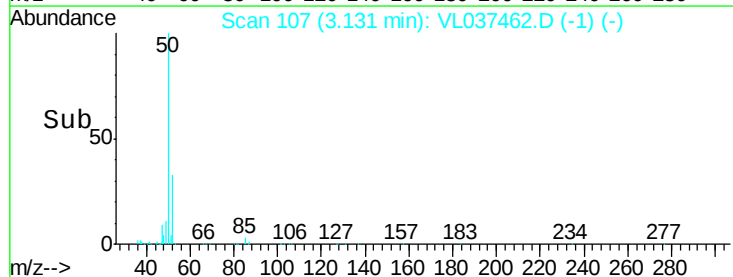
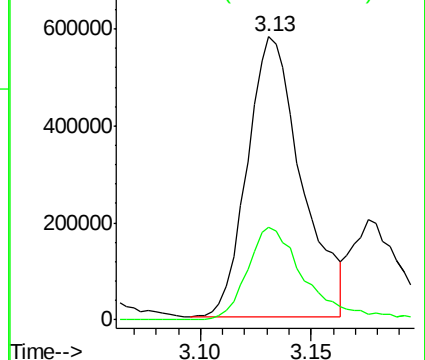
50 100

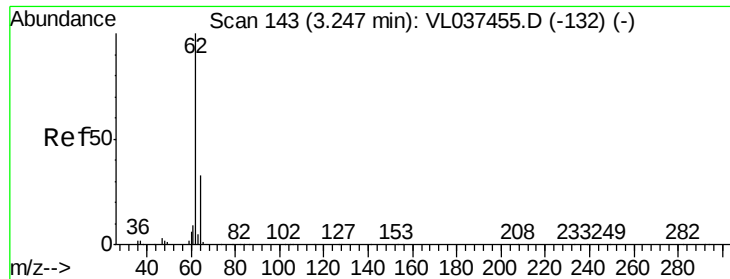
52 33.0 24.0 36.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.934 ppbv

RT: 3.25 min Scan# 144

Delta R.T. 0.00 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081621

Tot Ion: 62 Resp: 983808

Ion Ratio Lower Upper

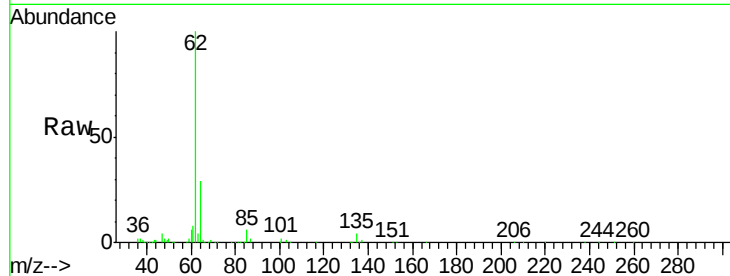
62 100

64 29.4 26.5 39.7

Manual Integrations  
APPROVED

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.25

600000

500000

400000

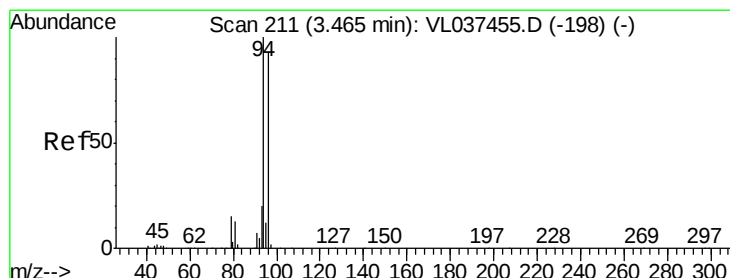
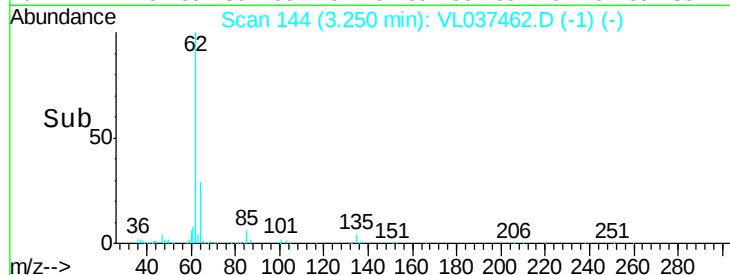
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 7.767 ppbv

RT: 3.47 min Scan# 211

Delta R.T. -0.00 min

Lab File: VL037462.D

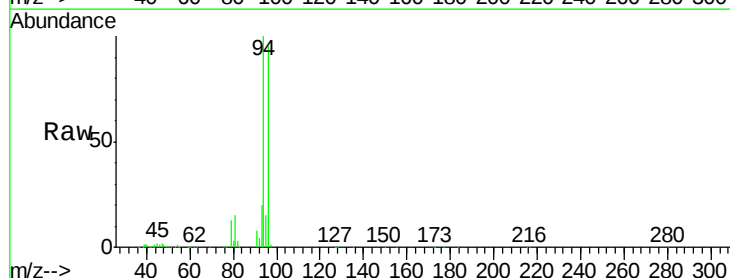
Acq: 16 Aug 2021 15:12

Tgt Ion: 94 Resp: 468467

Ion Ratio Lower Upper

94 100

96 94.7 74.5 111.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.47

250000

200000

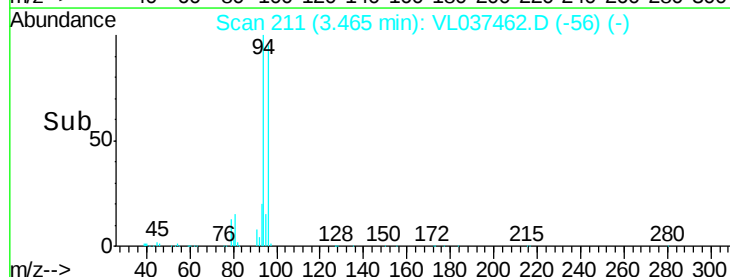
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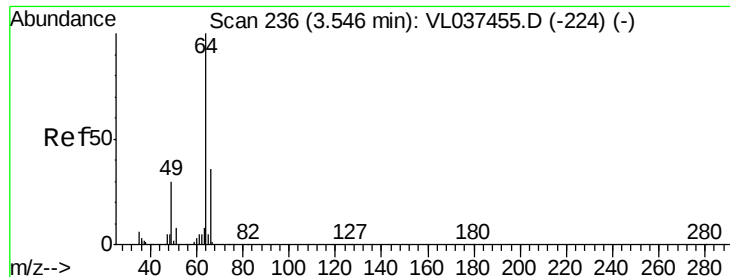
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50000

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Time-->





#7

Chloroethane

Concen: 9.128 ppbv

RT: 3.55 min Scan# 237

Delta R.T. 0.00 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081621

Tot Ion: 64 Resp: 343072

Ion Ratio Lower Upper

64 100

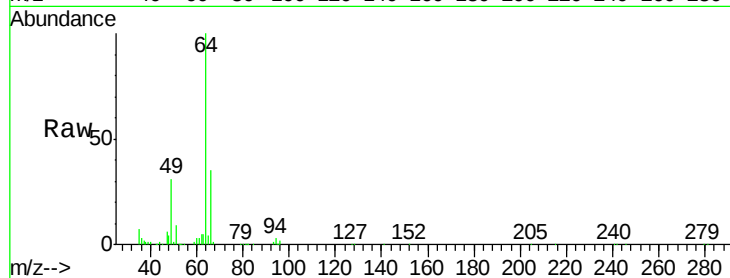
66 34.6 28.6 43.0

Manual Integrations

APPROVED

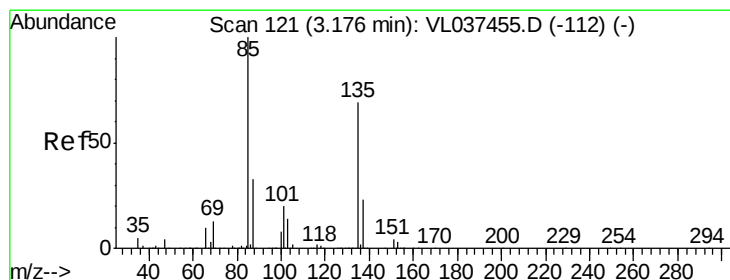
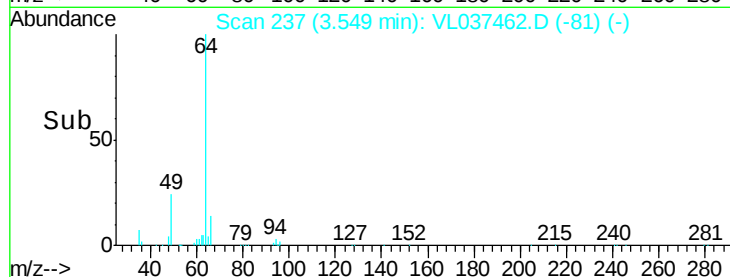
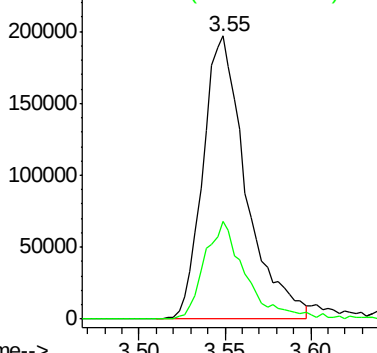
MMDadoda

8/19/2021 5:59:21 PM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 8.785 ppbv

RT: 3.18 min Scan# 122

Delta R.T. 0.00 min

Lab File: VL037462.D

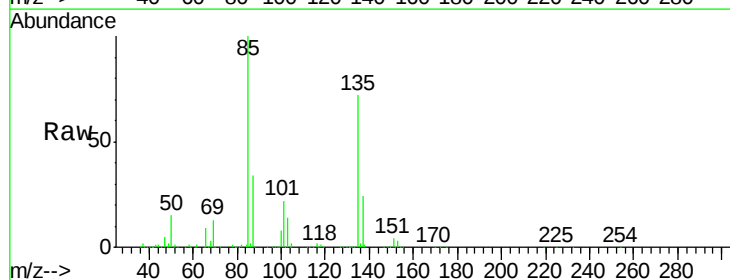
Acq: 16 Aug 2021 15:12

Tgt Ion: 85 Resp: 2285558

Ion Ratio Lower Upper

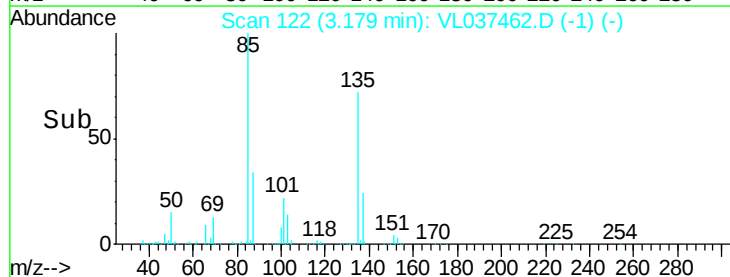
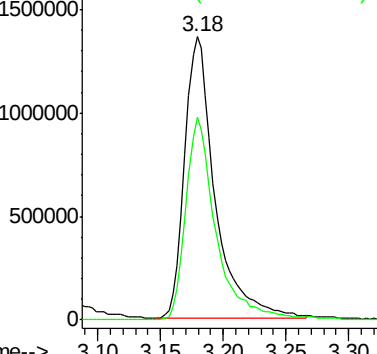
85 100

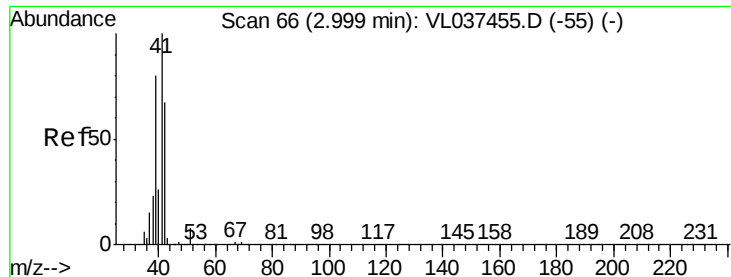
135 72.7 58.8 88.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 8.848 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.00 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081621

Tot Ion: 41 Resp: 952198

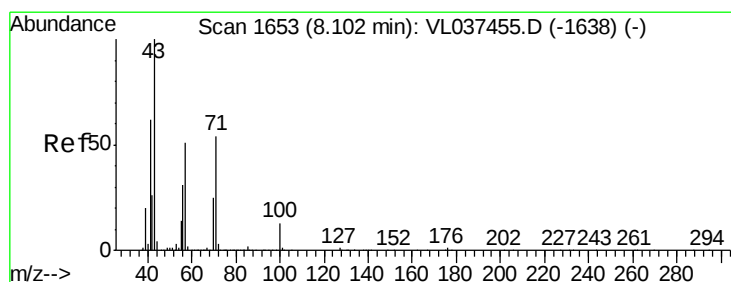
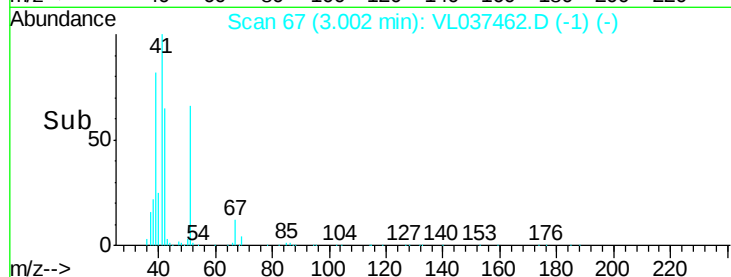
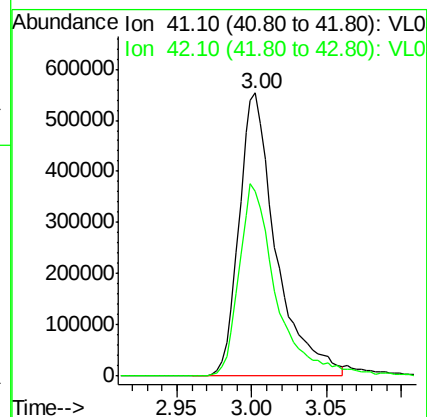
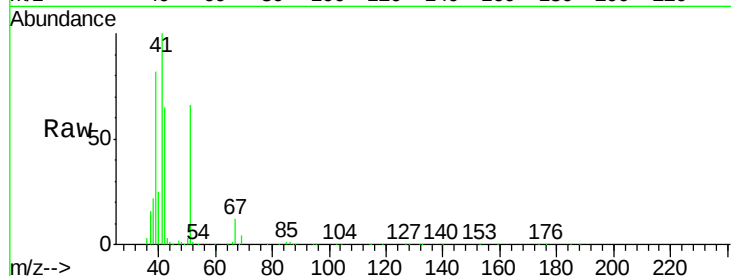
Ion Ratio Lower Upper

41 100

42 69.2 53.7 80.5

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#10

Heptane

Concen: 9.601 ppbv

RT: 8.10 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VL037462.D

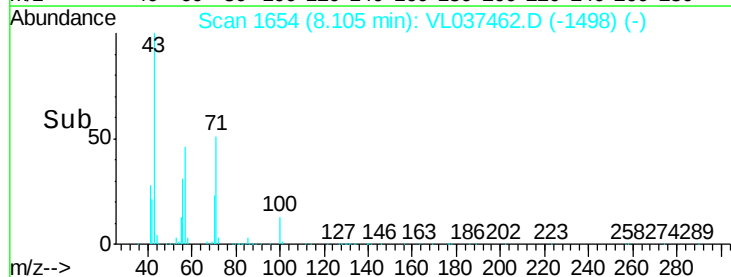
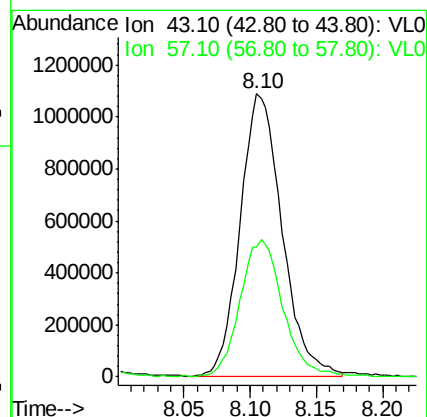
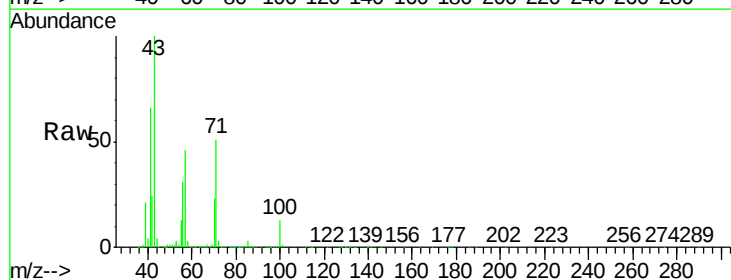
Acq: 16 Aug 2021 15:12

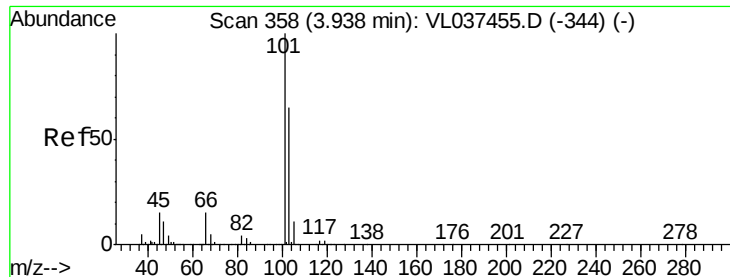
Tgt Ion: 43 Resp: 2378315

Ion Ratio Lower Upper

43 100

57 50.0 41.0 61.6





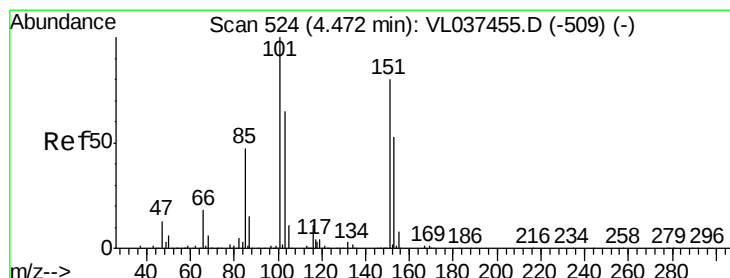
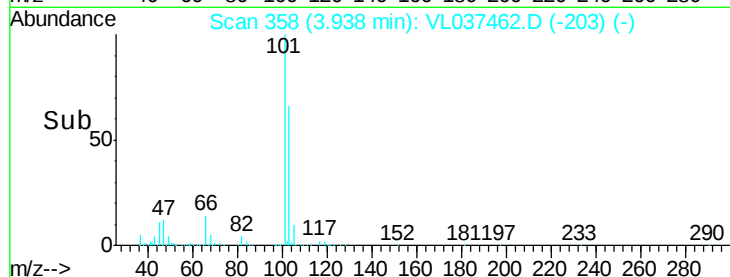
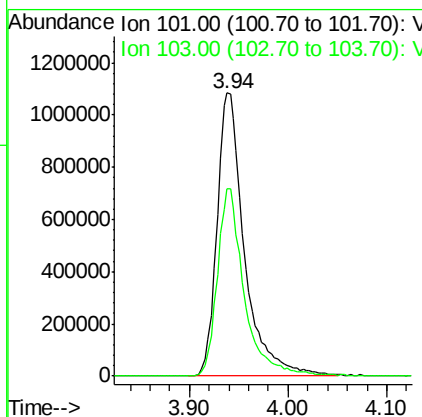
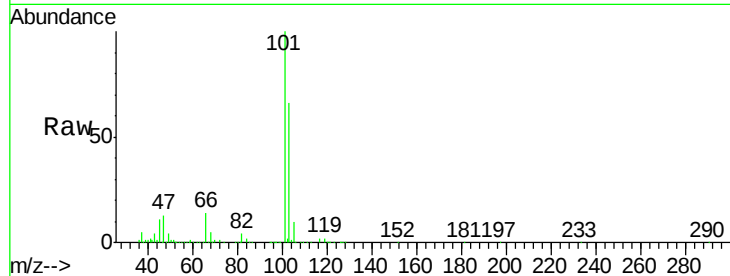
#11  
 Trichlorofluoromethane  
 Concen: 8.926 ppbv  
 RT: 3.94 min Scan# 358  
 Delta R.T. -0.00 min  
 Lab File: VL037462.D  
 Acq: 16 Aug 2021 15:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081621

Tot Ion:101 Resp: 2111601  
 Ion Ratio Lower Upper  
 101 100  
 103 66.4 51.8 77.6

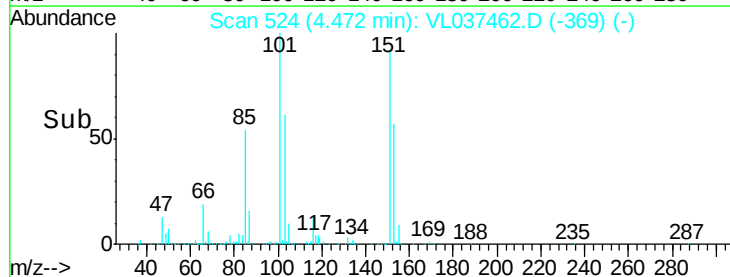
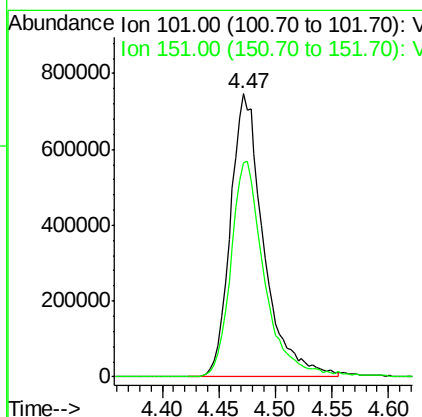
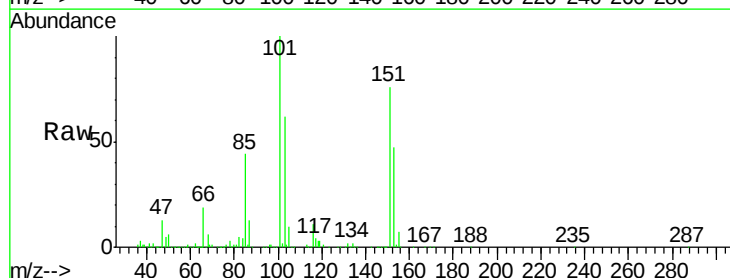
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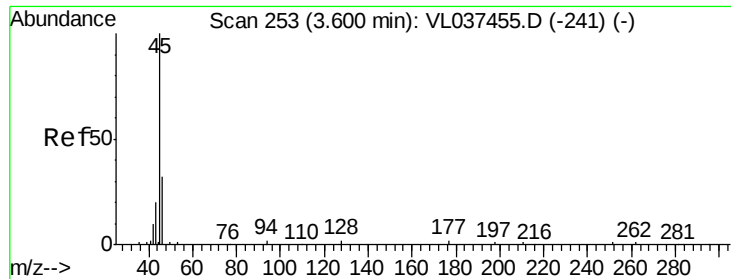
MMDadoda  
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#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 8.813 ppbv  
 RT: 4.47 min Scan# 524  
 Delta R.T. -0.00 min  
 Lab File: VL037462.D  
 Acq: 16 Aug 2021 15:12

Tgt Ion:101 Resp: 1529912  
 Ion Ratio Lower Upper  
 101 100  
 151 77.4 63.7 95.5





#13

Ethanol

Concen: 8.854 ppbv m

RT: 3.60 min Scan# 252

Delta R.T. -0.00 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081621

Tot Ion: 45 Resp: 92723

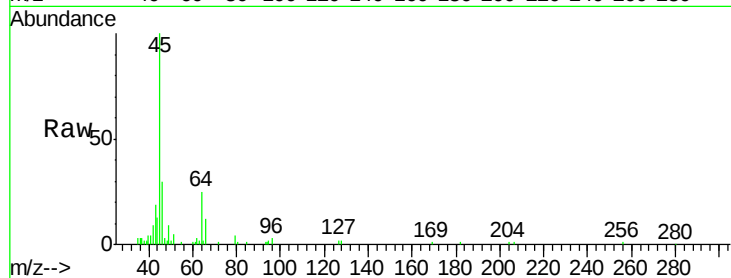
Ion Ratio Lower Upper

45 100

46 37.7 14.1 56.5

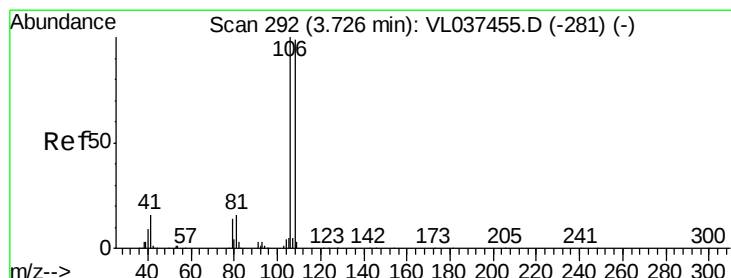
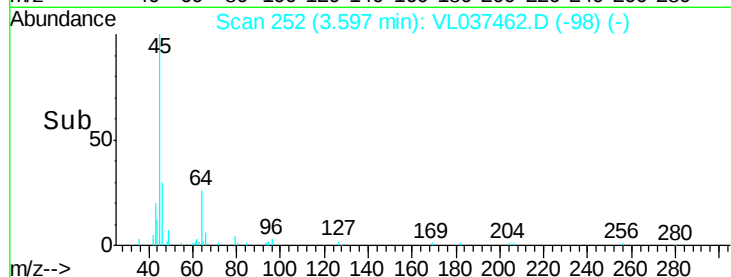
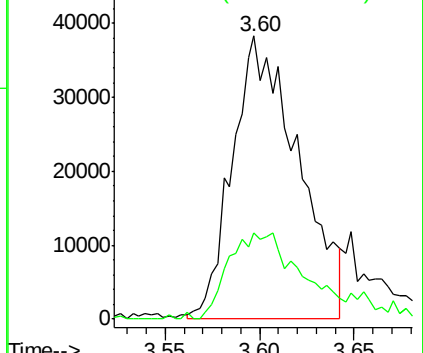
Manual Integrations  
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 9.104 ppbv

RT: 3.73 min Scan# 293

Delta R.T. 0.00 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

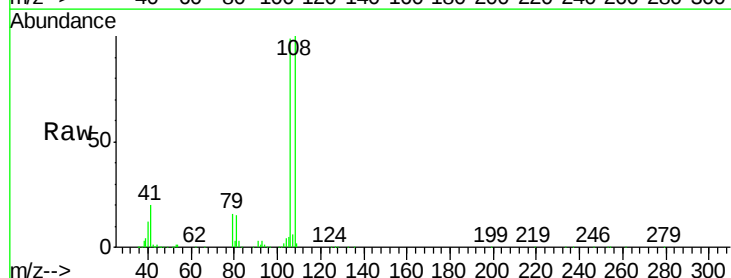
Tgt Ion: 108 Resp: 717498

Ion Ratio Lower Upper

108 100

106 109.3 85.8 128.8

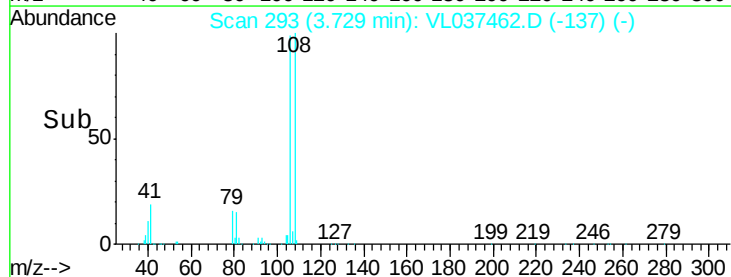
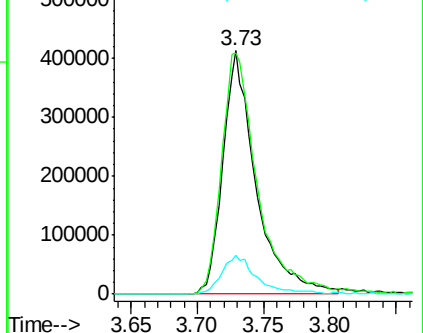
79 17.5 12.6 18.8

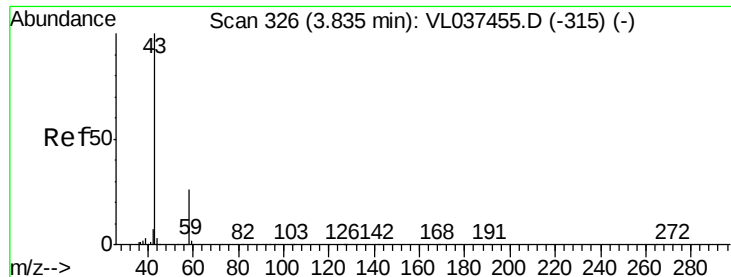


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





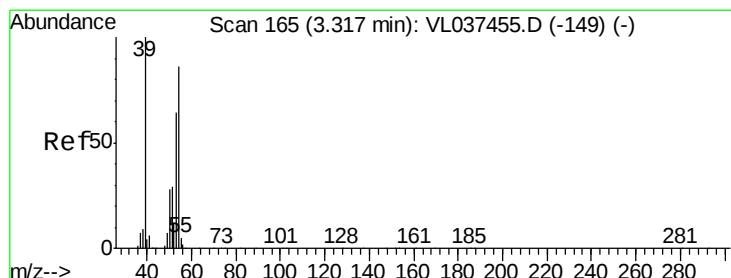
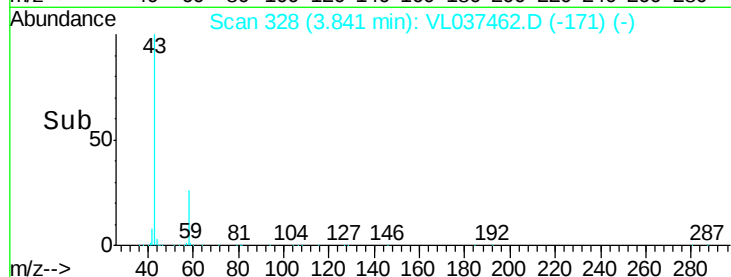
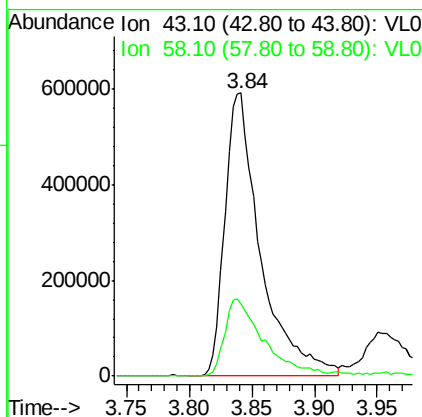
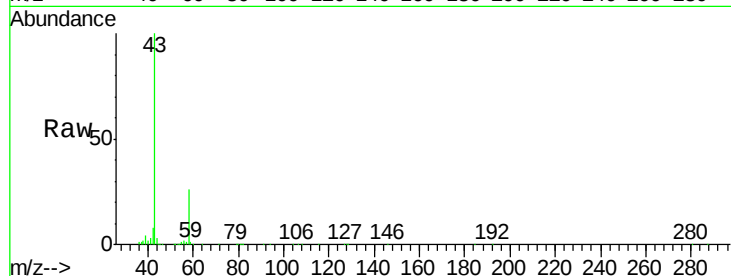
#15  
Acetone  
Concen: 7.348 ppbv  
RT: 3.84 min Scan# 328  
Delta R.T. 0.01 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081621

Tot Ion: 43 Resp: 1174633  
Ion Ratio Lower Upper  
43 100  
58 30.6 24.8 37.2

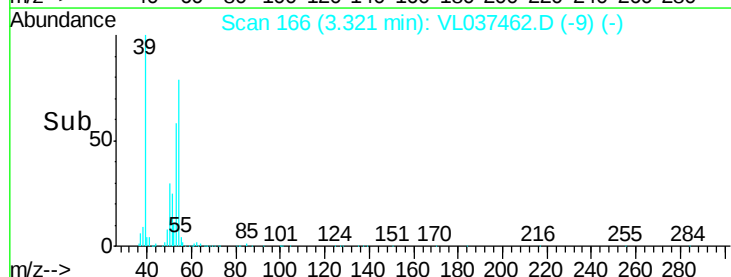
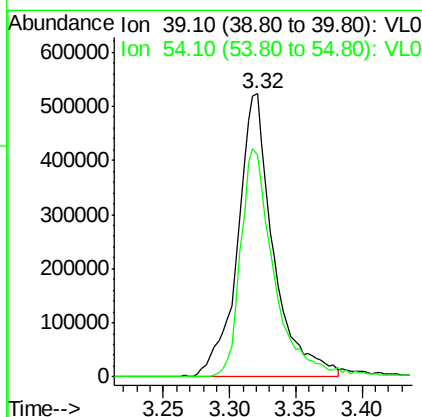
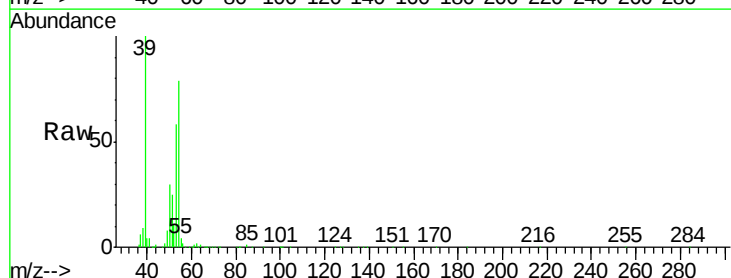
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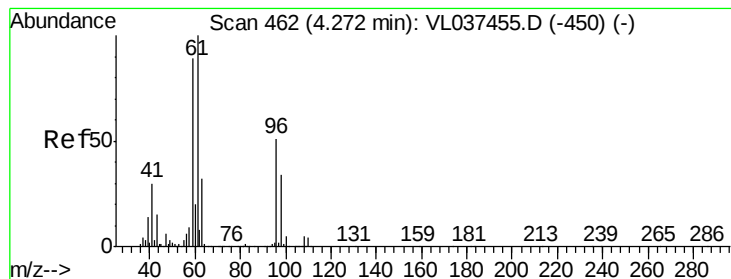
MMDadoda  
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#16  
1,3-Butadiene  
Concen: 9.480 ppbv  
RT: 3.32 min Scan# 166  
Delta R.T. 0.00 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

Tgt Ion: 39 Resp: 972112  
Ion Ratio Lower Upper  
39 100  
54 77.7 63.7 95.5





#17

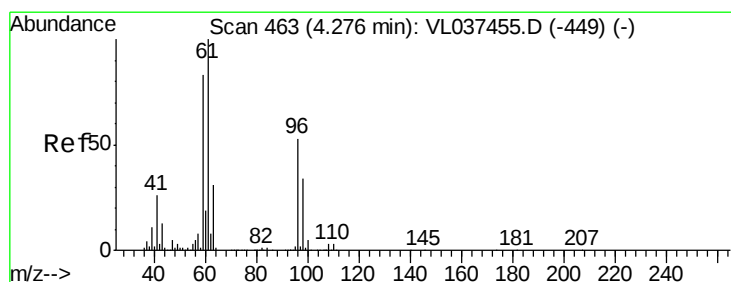
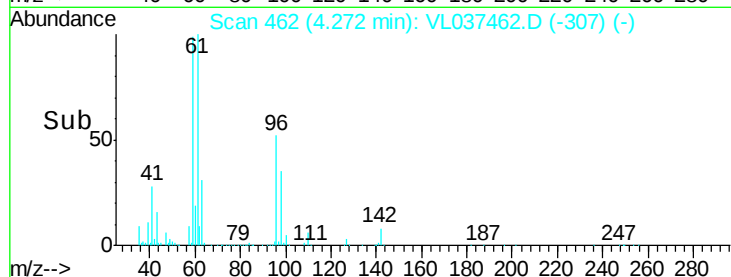
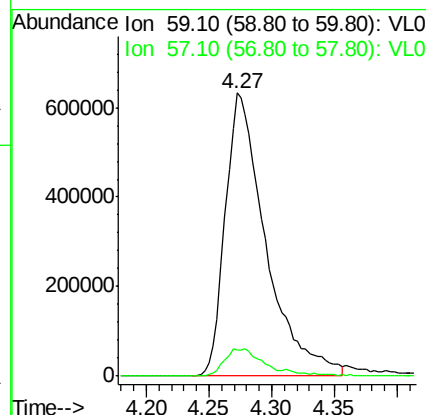
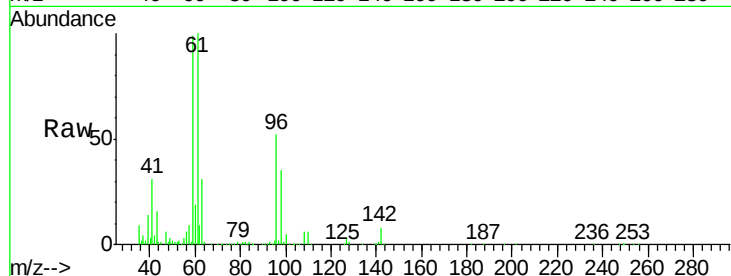
tert-Butyl alcohol  
Concen: 9.756 ppbv  
RT: 4.27 min Scan# 462  
Delta R.T. -0.00 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081621

Tot Ion: 59 Resp: 1424638  
Ion Ratio Lower Upper  
59 100  
57 10.1 8.3 12.5

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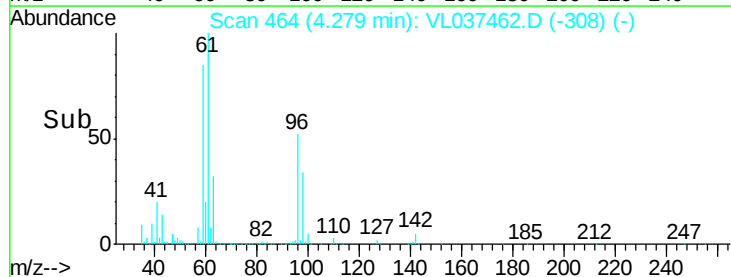
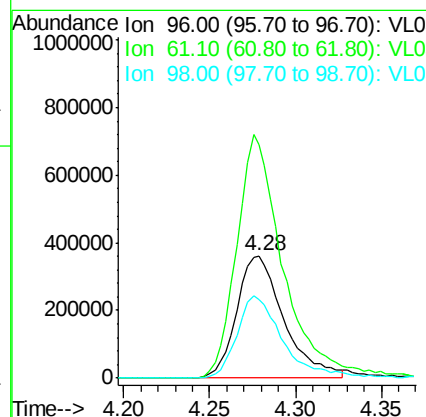
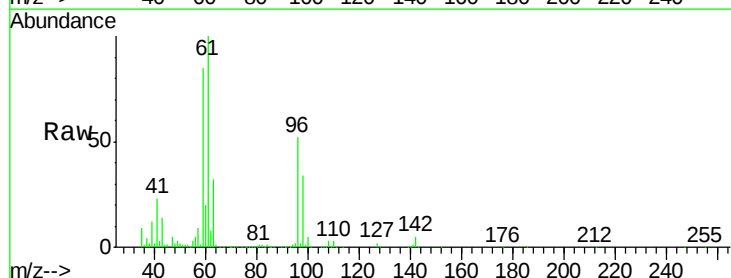
MMDadoda  
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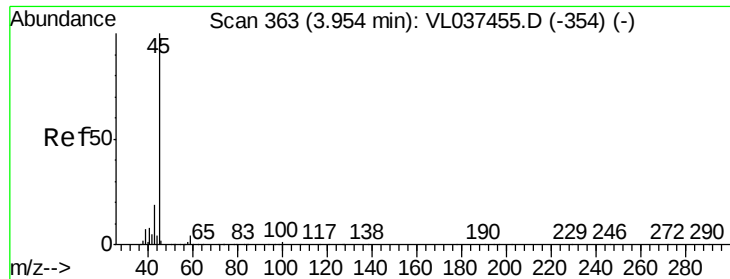


#18

1,1-Dichloroethene  
Concen: 8.703 ppbv  
RT: 4.28 min Scan# 464  
Delta R.T. 0.00 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

Tgt Ion: 96 Resp: 686242  
Ion Ratio Lower Upper  
96 100  
61 191.1 151.1 226.7  
98 64.3 51.8 77.8





#19

Isopropyl Alcohol

Concen: 8.934 ppbv

RT: 3.95 min Scan# 363

Delta R.T. -0.00 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081621

Tot Ion: 45 Resp: 818157

Ion Ratio Lower Upper

45 100

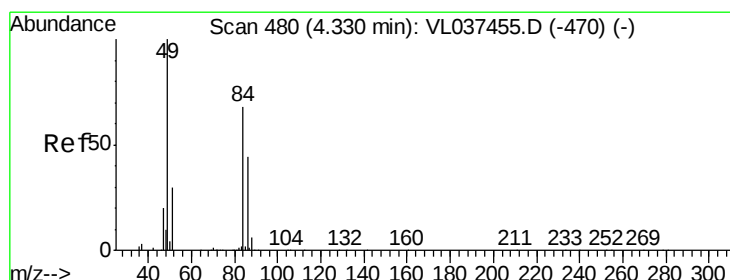
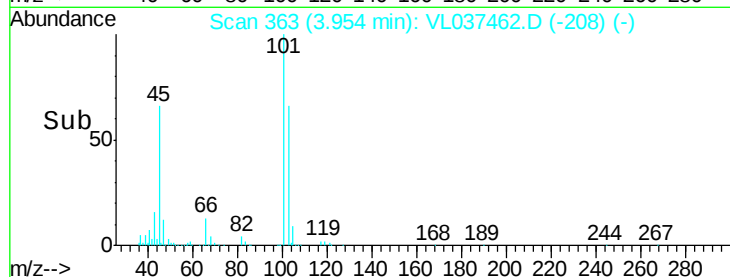
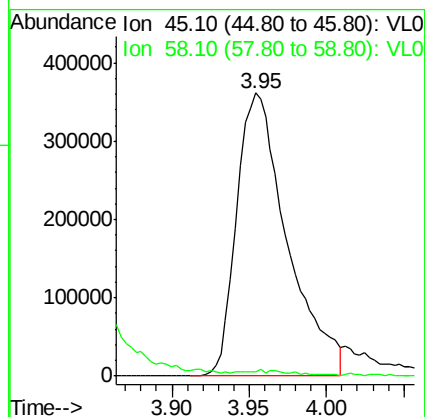
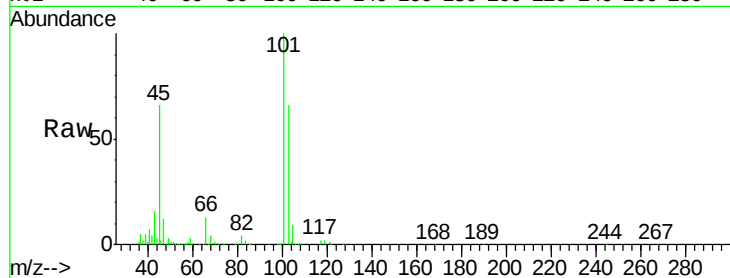
58 2.6 1.4 2.2#

Manual Integrations

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#20

Methylene Chloride

Concen: 7.481 ppbv

RT: 4.33 min Scan# 480

Delta R.T. -0.00 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

Tgt Ion: 84 Resp: 598774

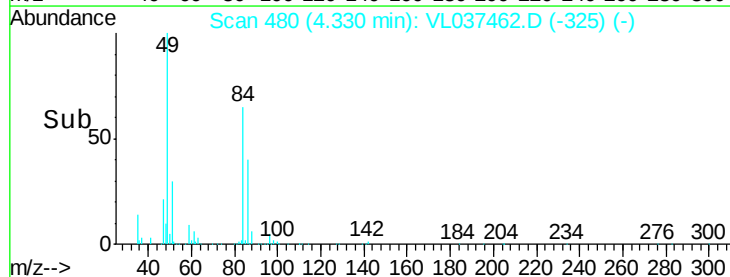
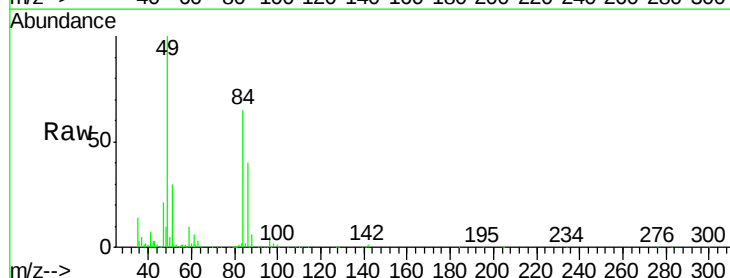
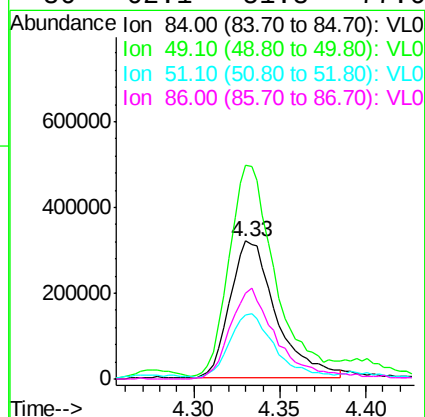
Ion Ratio Lower Upper

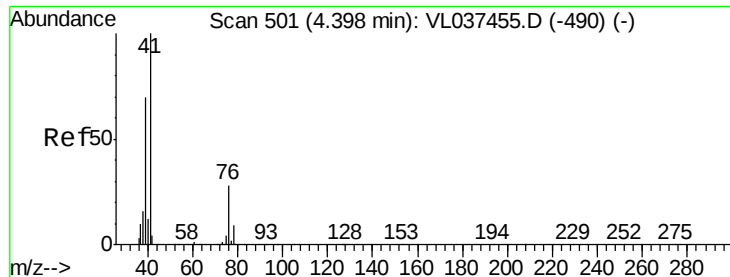
84 100

49 154.0 118.2 177.2

51 45.2 36.6 55.0

86 62.1 51.8 77.6





#21

Allvl Chloride

Concen: 8.445 ppbv

RT: 4.40 min Scan# 502

Delta R.T. 0.00 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081621

Tot Ion: 41 Resp: 1096416

Ion Ratio Lower Upper

41 100

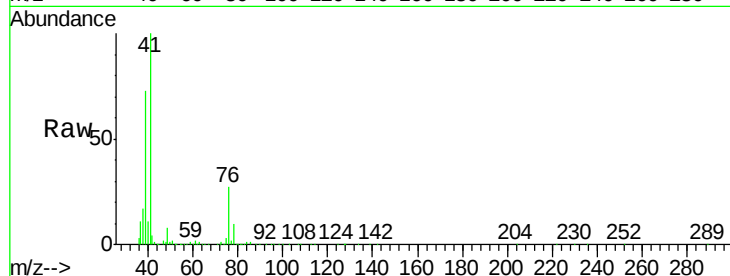
76 28.6 21.8 32.6

39 77.2 56.8 85.2

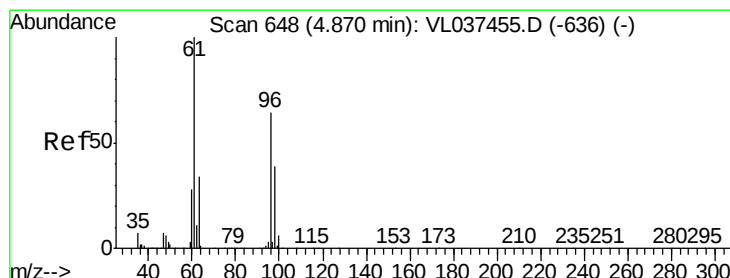
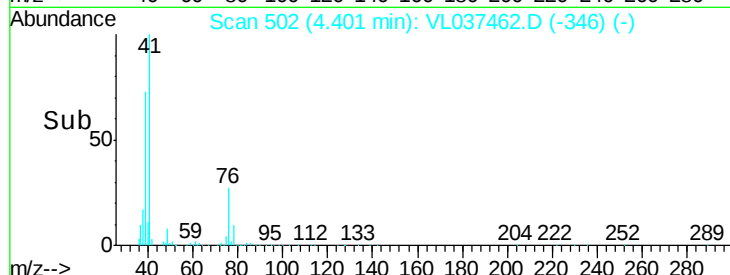
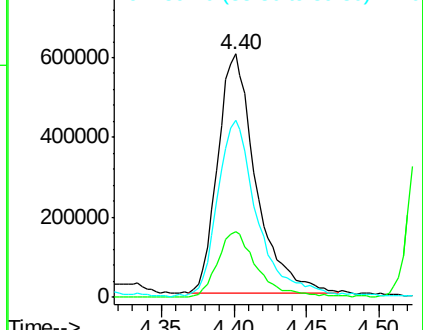
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Abundance Ion 41.10 (40.80 to 41.80): VL0  
Ion 76.10 (75.80 to 76.80): VL0  
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 8.775 ppbv

RT: 4.87 min Scan# 649

Delta R.T. 0.00 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

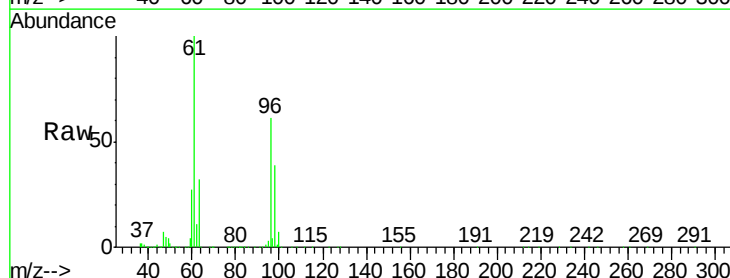
Tgt Ion: 96 Resp: 690345

Ion Ratio Lower Upper

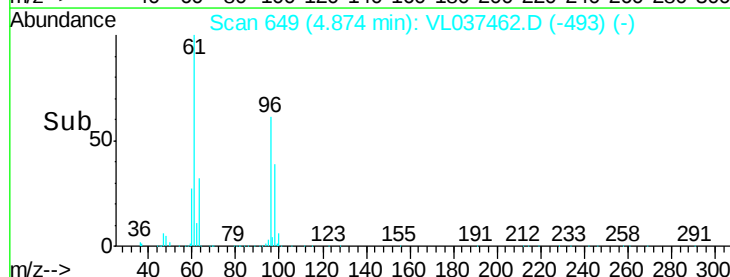
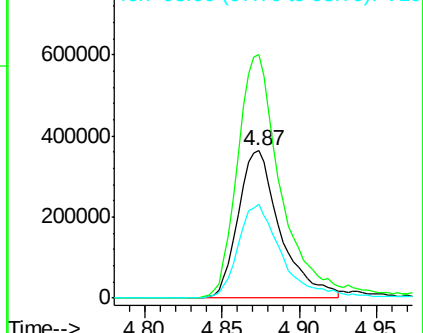
96 100

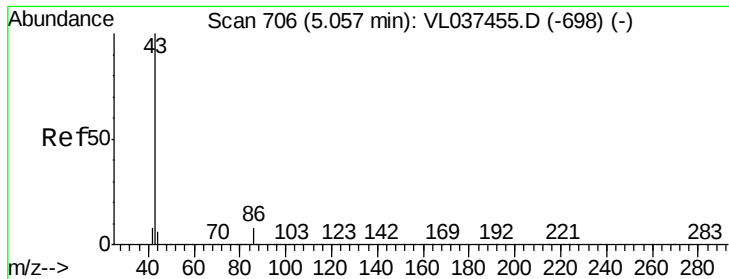
61 165.1 125.5 188.3

98 63.8 49.0 73.4



Abundance Ion 96.00 (95.70 to 96.70): VL0  
Ion 61.10 (60.80 to 61.80): VL0  
Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 9.288 ppbv

RT: 5.06 min Scan# 707

Delta R.T. 0.00 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081621

Tot Ion: 43 Resp: 2188456

Ion Ratio Lower Upper

43 100

86 7.8 5.7 8.5

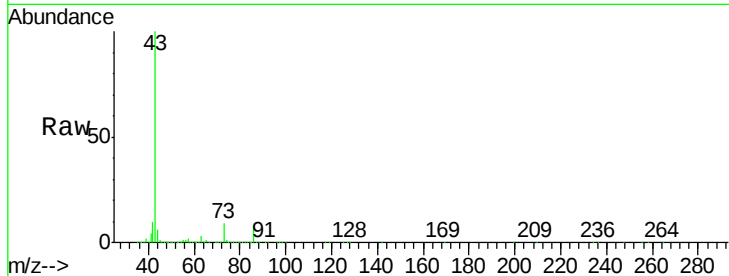
42 9.6 7.4 11.2

44 5.5 4.3 6.5

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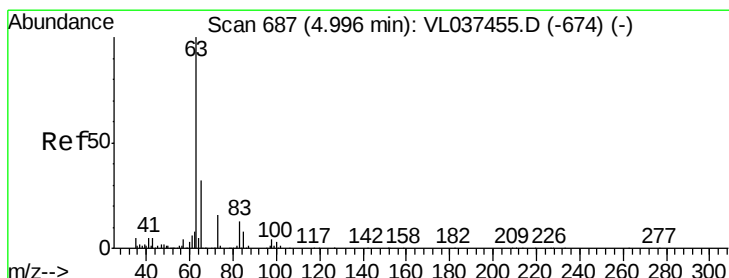
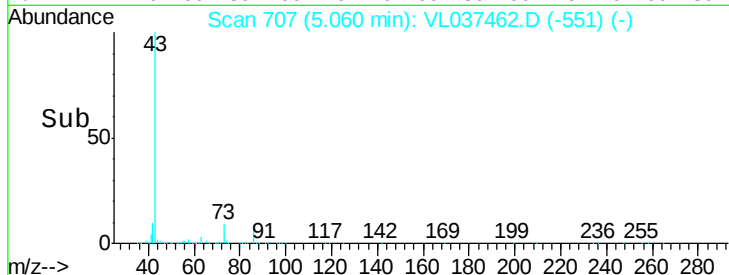
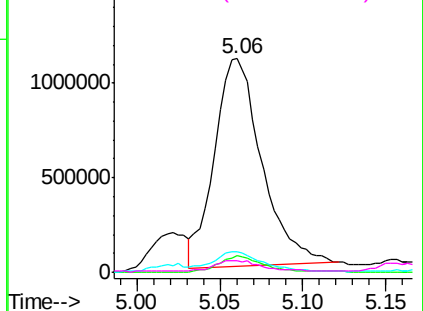


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.768 ppbv

RT: 5.00 min Scan# 688

Delta R.T. 0.00 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

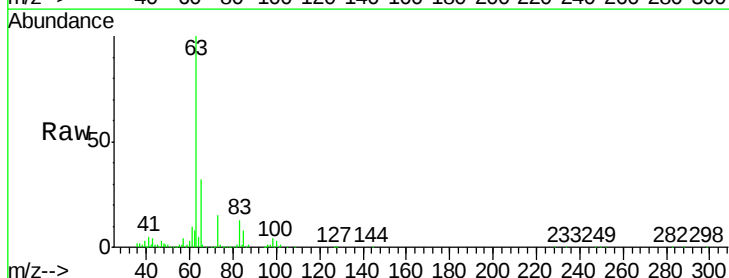
Tgt Ion: 63 Resp: 1498307

Ion Ratio Lower Upper

63 100

98 4.0 2.1 6.3

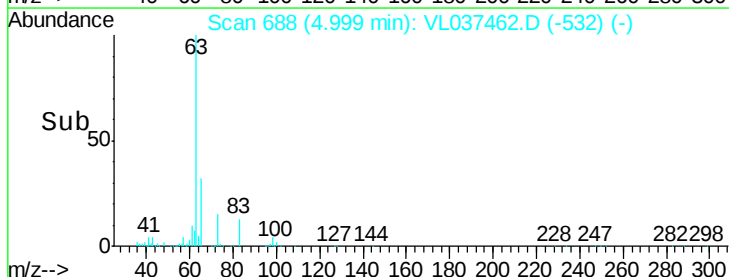
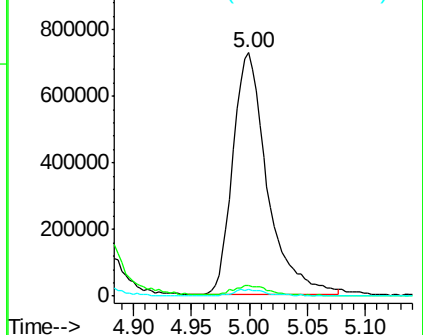
100 2.6 1.6 4.7

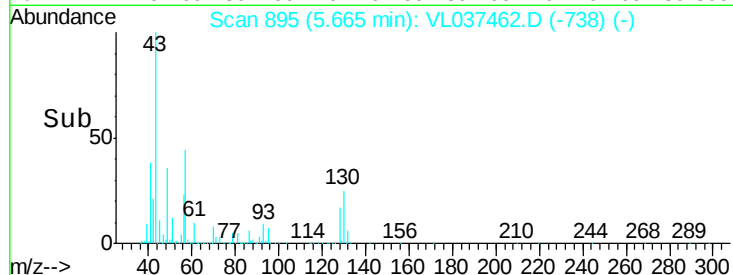
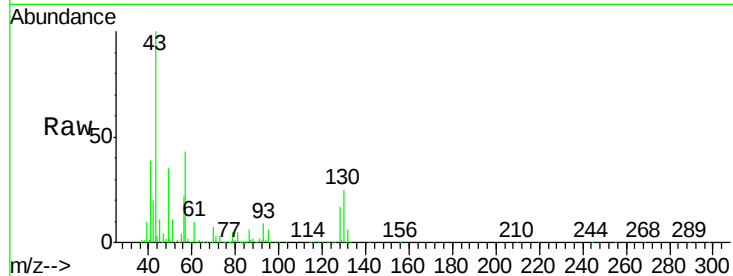
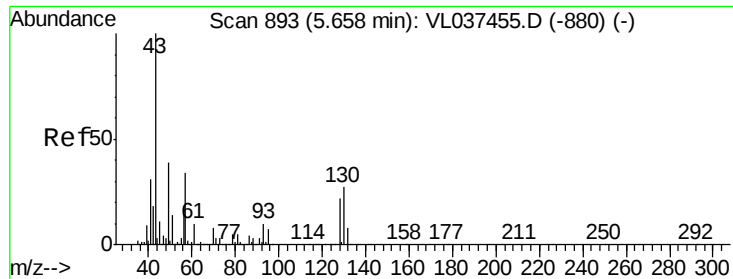


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





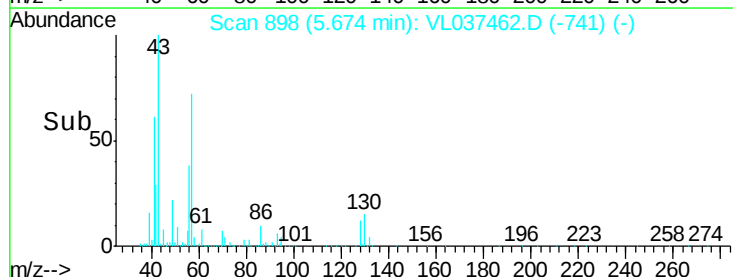
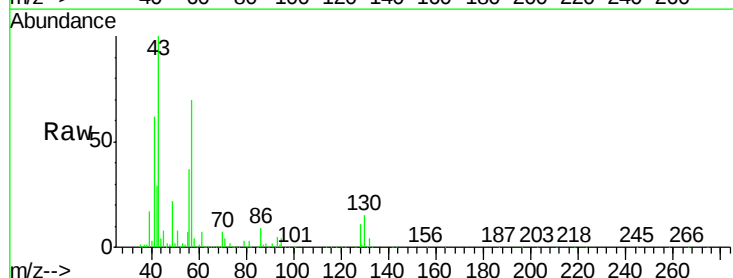
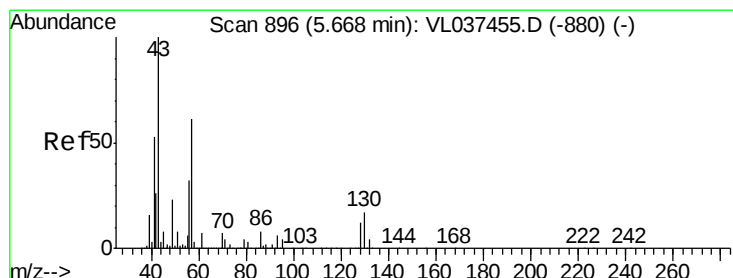
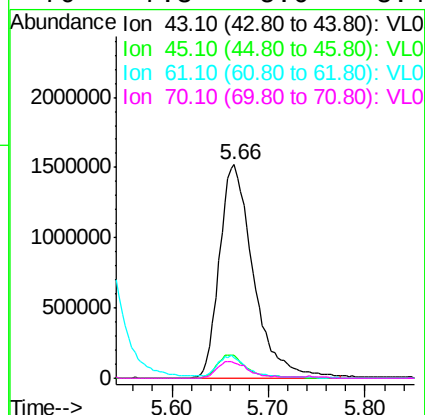
#25  
Ethyl Acetate  
Concen: 9.149 ppbv  
RT: 5.66 min Scan# 895  
Delta R.T. 0.01 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

| Tot Ion | 43    | Resp  | 3712855 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 43      | 100   |       |         |
| 45      | 9.8   | 8.0   | 12.0    |
| 61      | 9.7   | 8.0   | 12.0    |
| 70      | 7.3   | 5.6   | 8.4     |

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081621

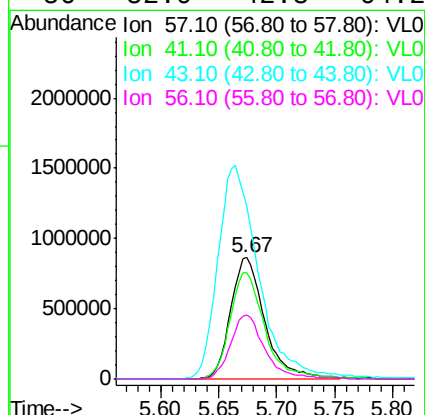
Manual Integrations  
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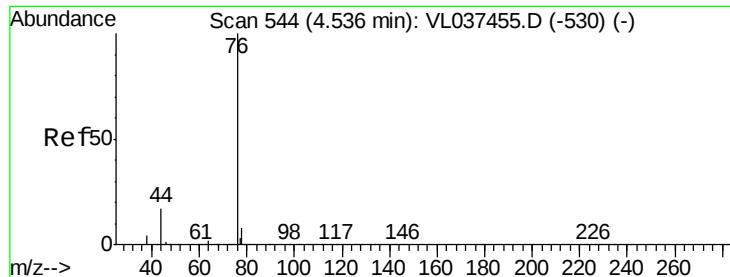
MMDadoda  
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#26  
Hexane  
Concen: 8.934 ppbv  
RT: 5.67 min Scan# 898  
Delta R.T. 0.01 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

| Tgt Ion | 57    | Resp  | 1772712 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 57      | 100   |       |         |
| 41      | 90.2  | 72.3  | 108.5   |
| 43      | 211.8 | 172.3 | 258.5   |
| 56      | 52.9  | 42.8  | 64.2    |





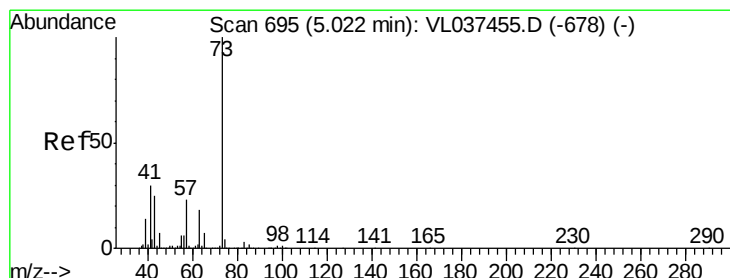
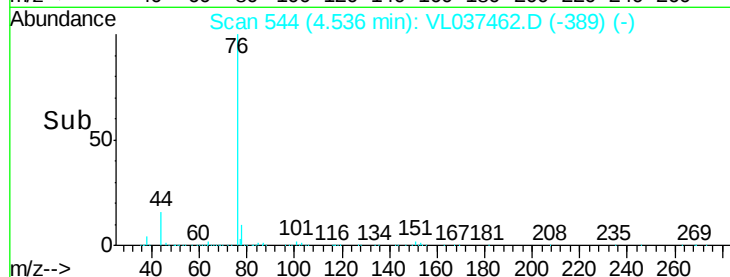
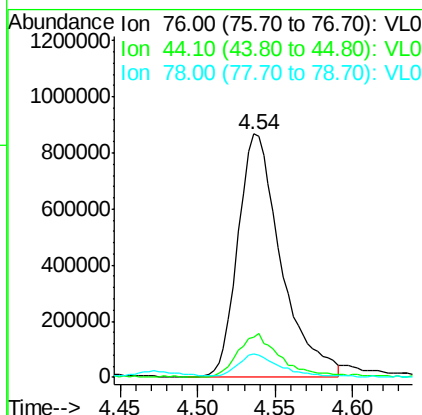
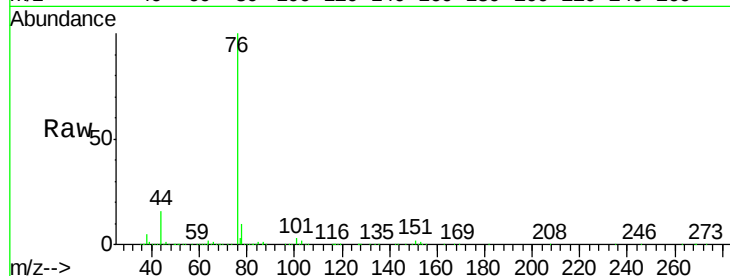
#27  
Carbon Disulfide  
Concen: 9.501 ppbv  
RT: 4.54 min Scan# 544  
Delta R.T. -0.00 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081621

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 44      | 18.5  | 13.9  | 20.9  |
| 78      | 10.0  | 7.9   | 11.9  |

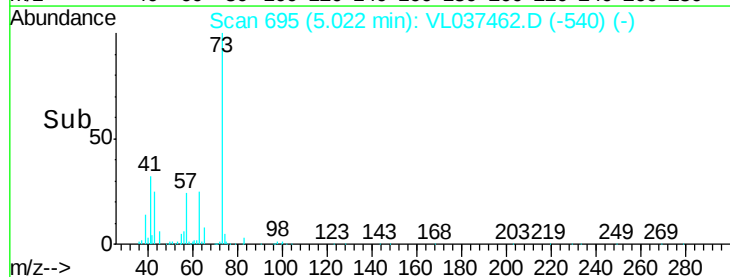
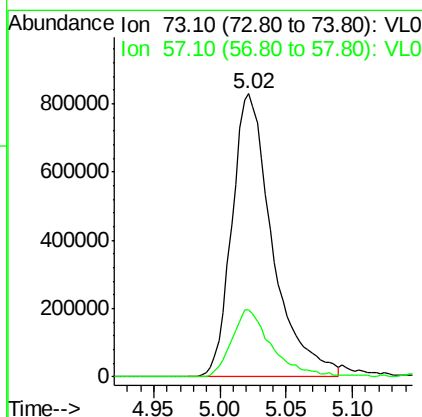
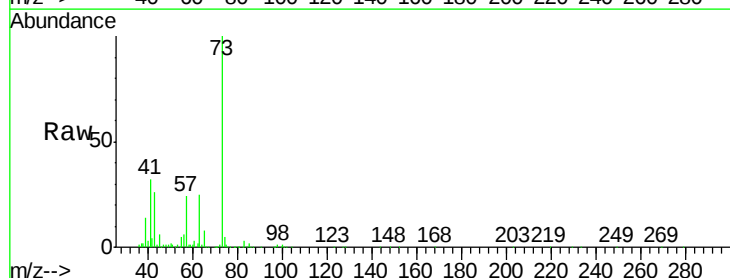
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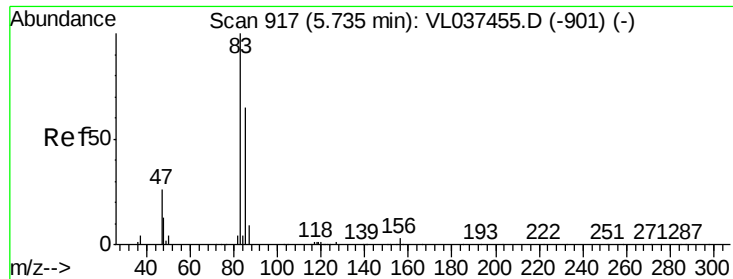
MMDadoda  
8/19/2021 5:59:21 PM



#28  
Methyl tert-Butyl Ether  
Concen: 9.252 ppbv  
RT: 5.02 min Scan# 695  
Delta R.T. -0.00 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 57      | 23.9  | 19.4  | 29.2  |





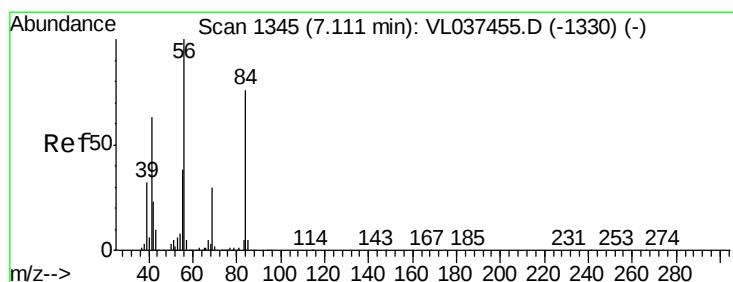
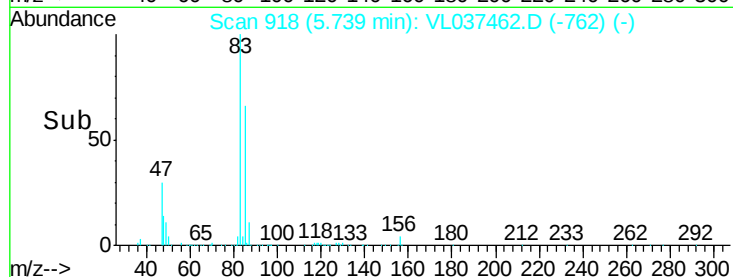
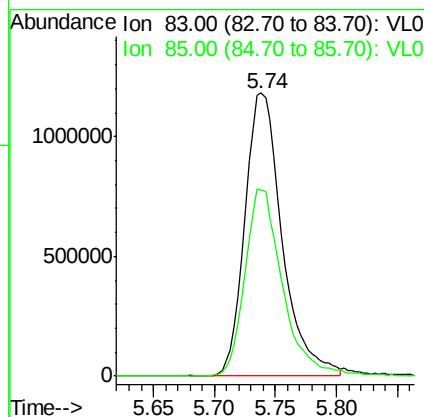
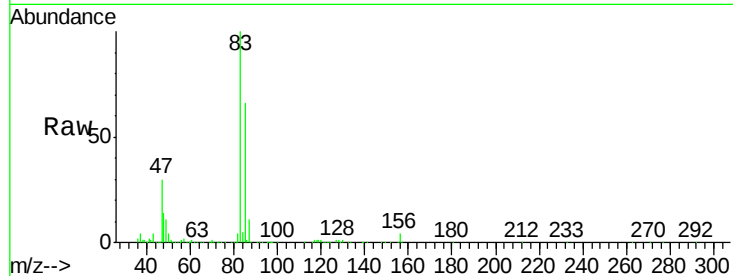
#29  
Chloroform  
Concen: 8.868 ppbv  
RT: 5.74 min Scan# 918  
Delta R.T. 0.00 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081621

Tot Ion: 83 Resp: 2493724  
Ion Ratio Lower Upper  
83 100  
85 65.4 52.3 78.5

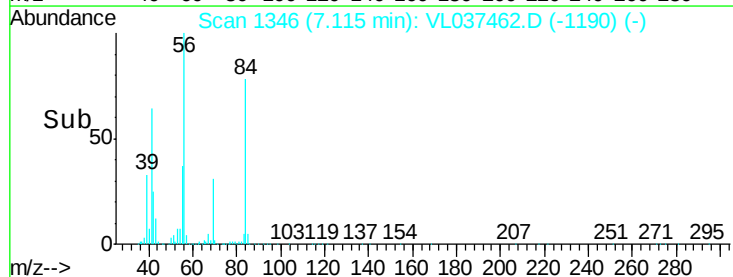
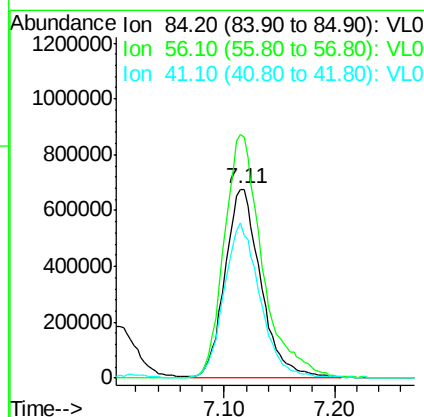
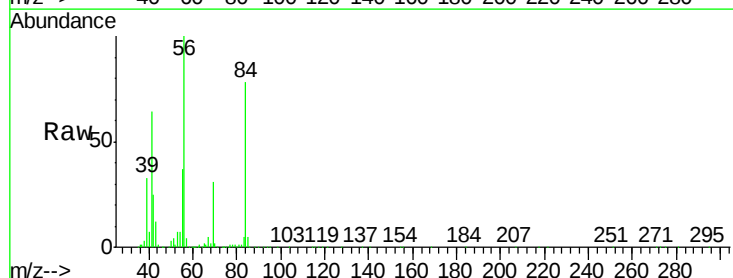
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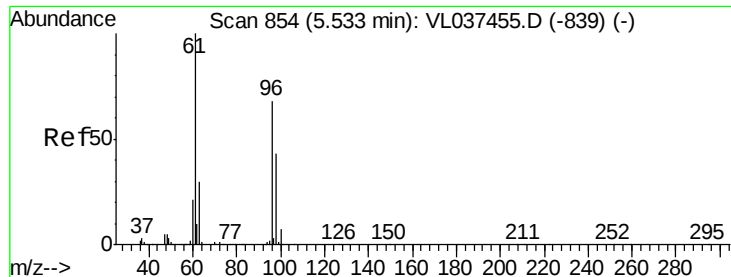
MMDadoda  
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#30  
Cyclohexane  
Concen: 9.127 ppbv  
RT: 7.11 min Scan# 1346  
Delta R.T. 0.00 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

Tgt Ion: 84 Resp: 1508837  
Ion Ratio Lower Upper  
84 100  
56 139.7 110.6 165.8  
41 83.3 67.0 100.6





#31

cis-1,2-Dichloroethene

Concen: 9.463 ppbv

RT: 5.53 min Scan# 854

Delta R.T. -0.00 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081621

Tot Ion: 61 Resp: 1699362

Ion Ratio Lower Upper

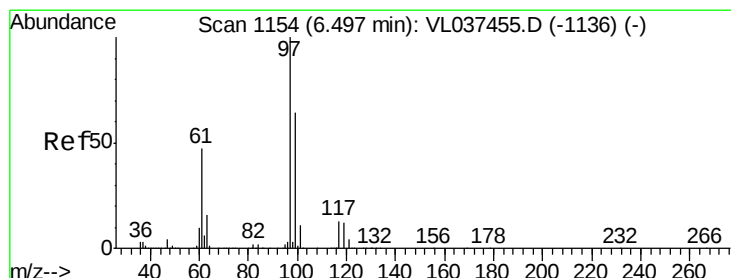
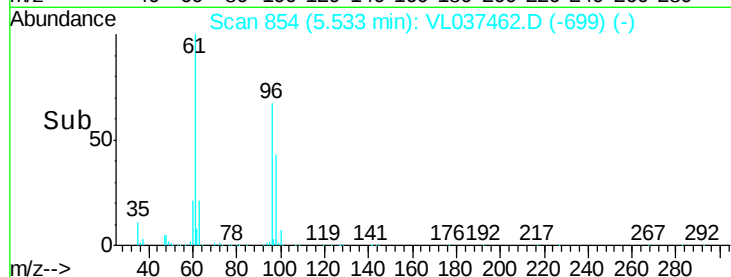
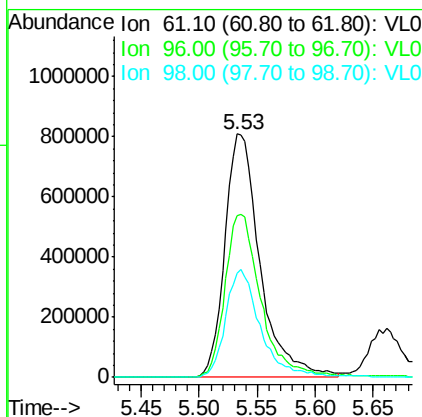
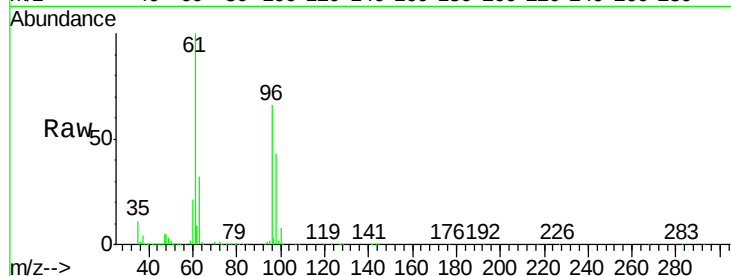
61 100

96 66.3 54.8 82.2

98 42.8 34.2 51.2

Manual Integrations  
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#32

1,1,1-Trichloroethane

Concen: 8.992 ppbv

RT: 6.50 min Scan# 1154

Delta R.T. -0.00 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

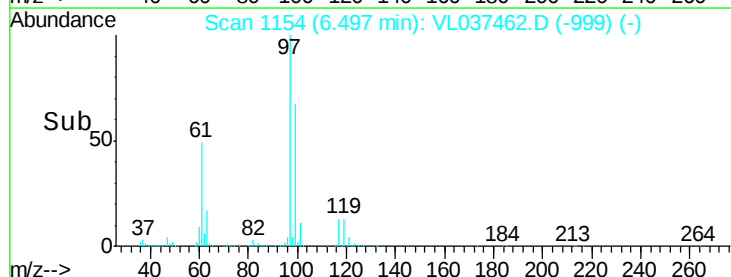
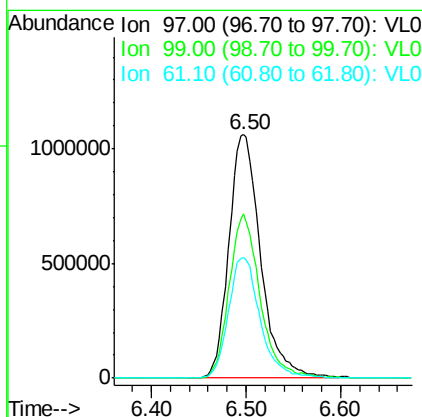
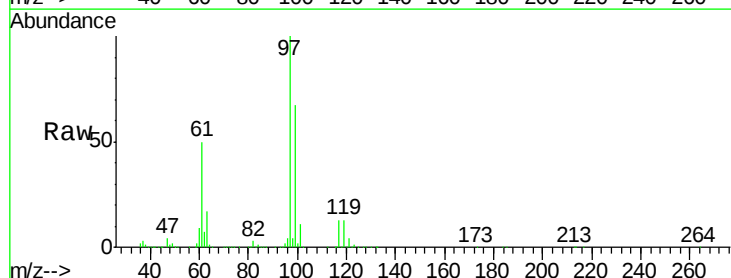
Tgt Ion: 97 Resp: 2484364

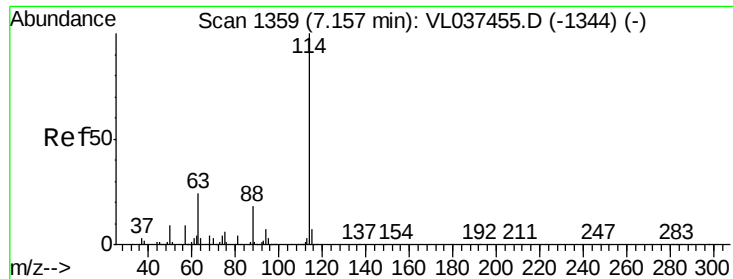
Ion Ratio Lower Upper

97 100

99 65.6 51.8 77.6

61 49.2 39.6 59.4





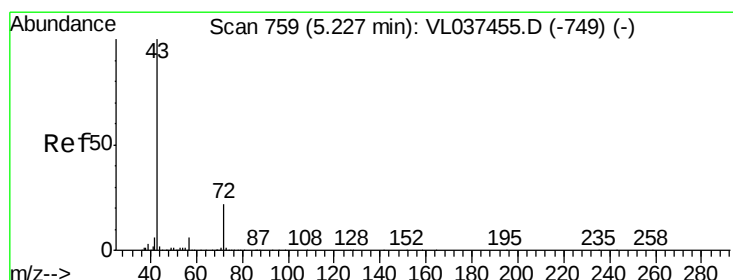
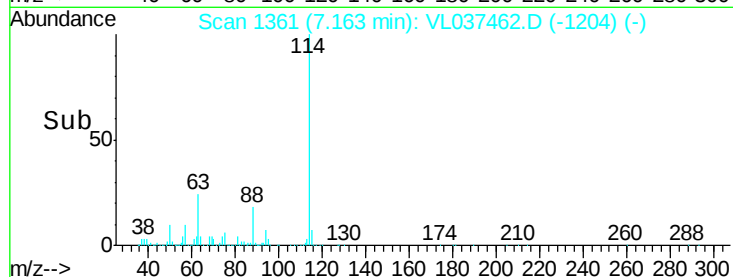
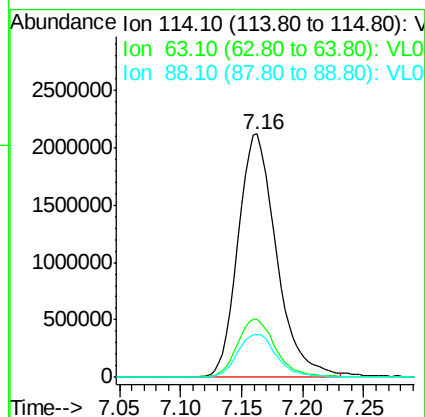
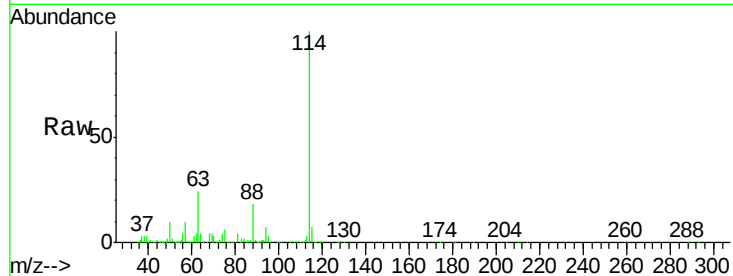
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.16 min Scan# 1361  
 Delta R.T. 0.01 min  
 Lab File: VL037462.D  
 Acq: 16 Aug 2021 15:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081621

Tot Ion:114 Resp: 4617746  
 Ion Ratio Lower Upper  
 114 100  
 63 24.6 19.3 28.9  
 88 18.3 14.2 21.4

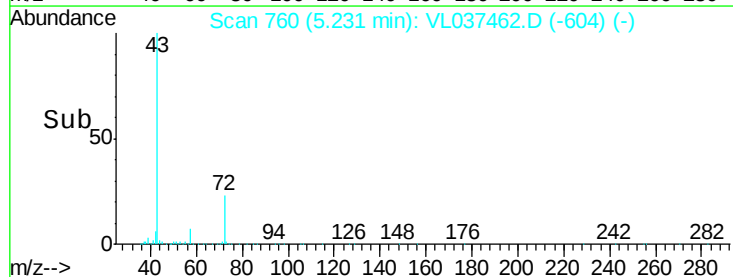
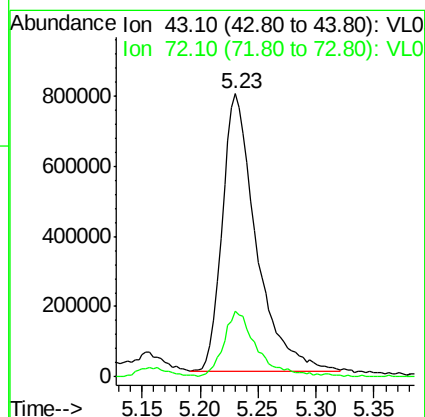
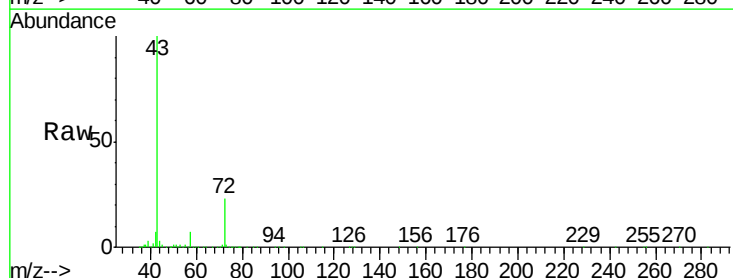
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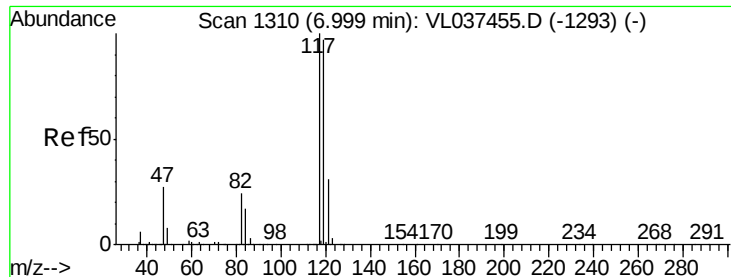
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#34  
 2-Butanone  
 Concen: 9.057 ppbv  
 RT: 5.23 min Scan# 760  
 Delta R.T. 0.00 min  
 Lab File: VL037462.D  
 Acq: 16 Aug 2021 15:12

Tgt Ion: 43 Resp: 1603588  
 Ion Ratio Lower Upper  
 43 100  
 72 24.1 17.4 26.0





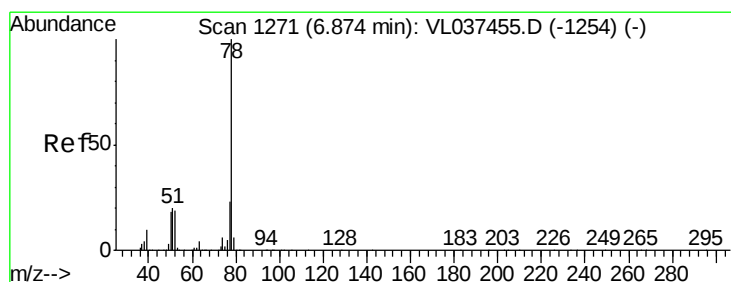
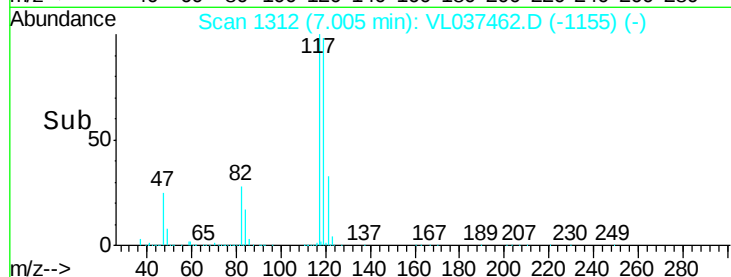
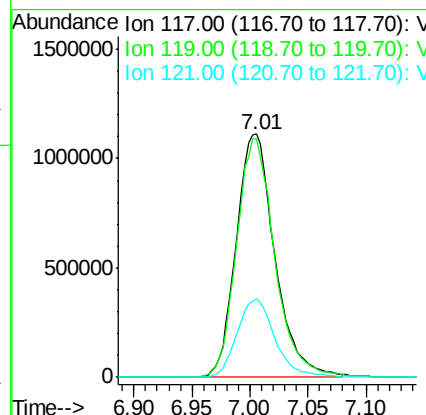
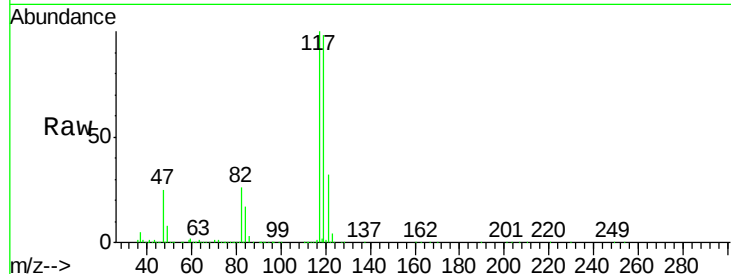
#35  
Carbon Tetrachloride  
Concen: 9.422 ppbv  
RT: 7.01 min Scan# 1312  
Delta R.T. 0.01 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081621

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 98.2  | 77.3  | 115.9 |
| 121     | 32.2  | 25.2  | 37.8  |

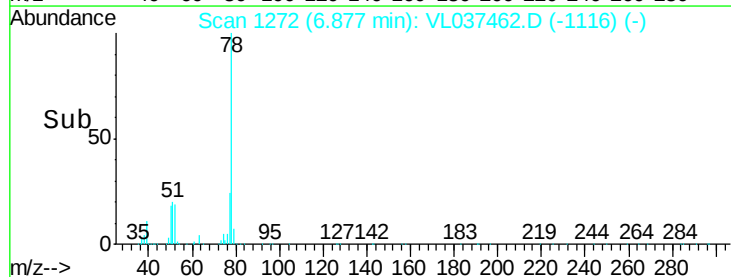
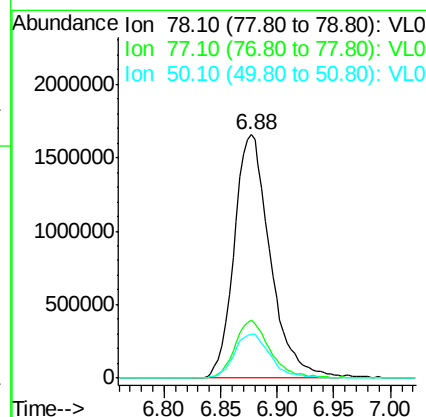
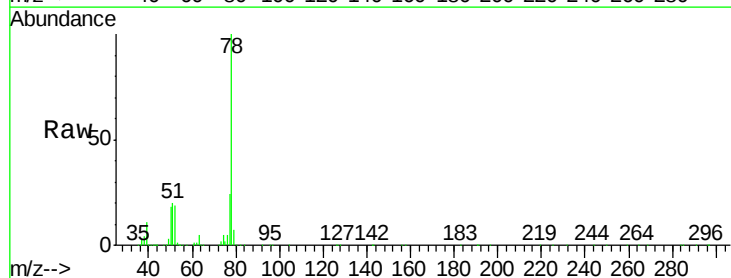
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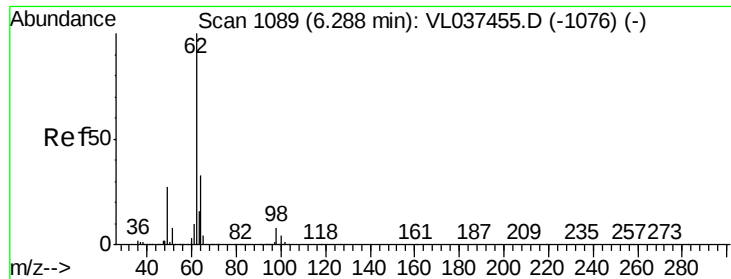
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#36  
Benzene  
Concen: 9.455 ppbv  
RT: 6.88 min Scan# 1272  
Delta R.T. 0.00 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.7  | 18.2  | 27.4  |
| 50      | 18.0  | 14.6  | 21.8  |





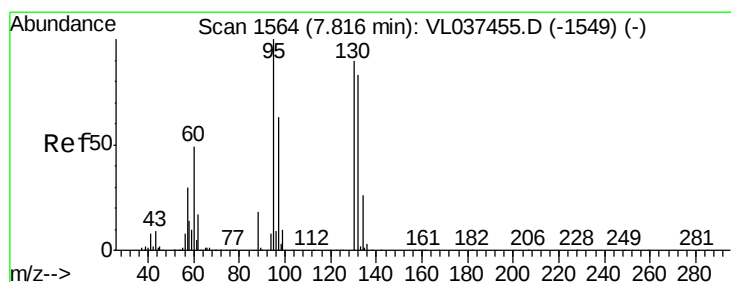
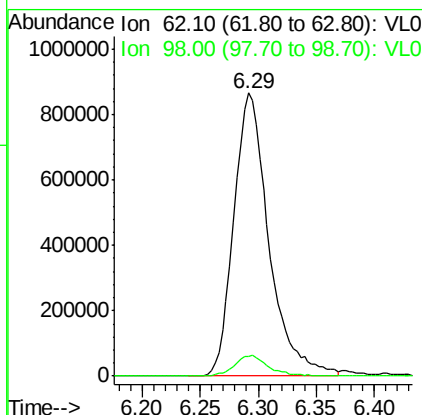
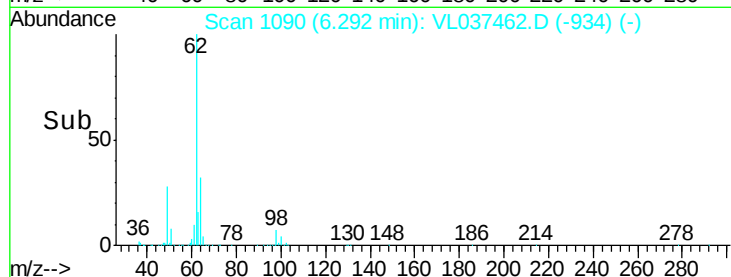
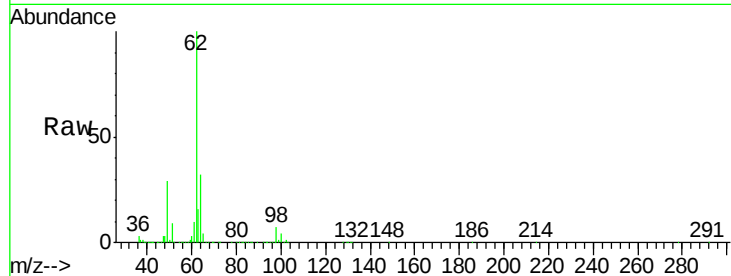
#37  
 1,2-Dichloroethane  
 Concen: 9.470 ppbv  
 RT: 6.29 min Scan# 1090  
 Delta R.T. 0.00 min  
 Lab File: VL037462.D  
 Acq: 16 Aug 2021 15:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081621

Tot Ion: 62 Resp: 1820934  
 Ion Ratio Lower Upper  
 62 100  
 98 7.3 6.0 9.0

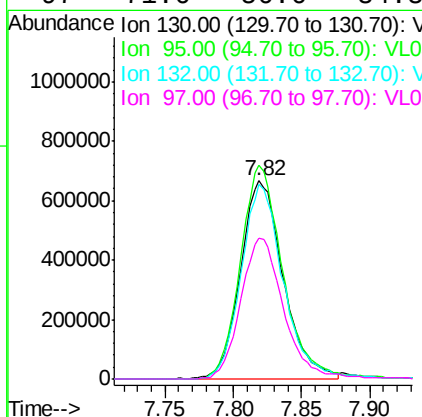
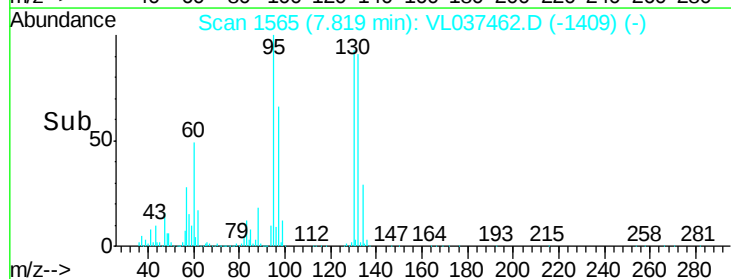
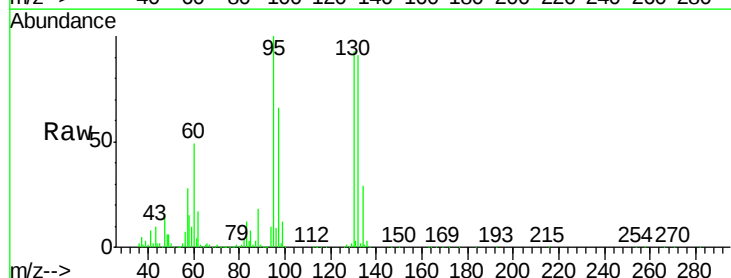
Manual Integrations  
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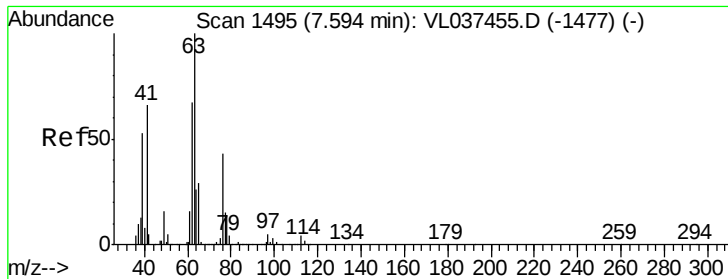
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#38  
 Trichloroethene  
 Concen: 9.019 ppbv  
 RT: 7.82 min Scan# 1565  
 Delta R.T. 0.00 min  
 Lab File: VL037462.D  
 Acq: 16 Aug 2021 15:12

Tgt Ion: 130 Resp: 1436506  
 Ion Ratio Lower Upper  
 130 100  
 95 108.2 89.2 133.8  
 132 98.5 74.0 111.0  
 97 71.6 56.6 84.8





#39

1,2-Dichloropropane

Concen: 9.334 ppbv

RT: 7.60 min Scan# 1496

Delta R.T. 0.00 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081621

Tot Ion: 63 Resp: 1392337

Ion Ratio Lower Upper

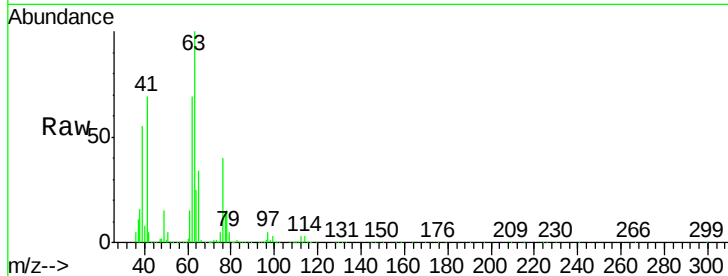
63 100

41 68.3 52.4 78.6

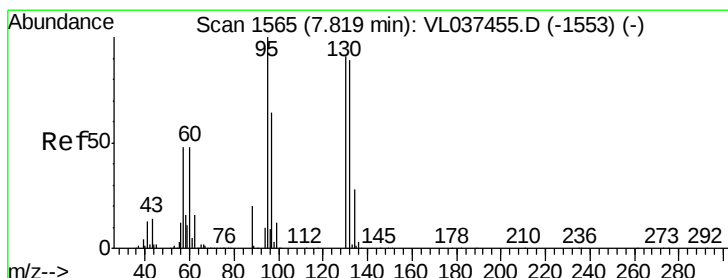
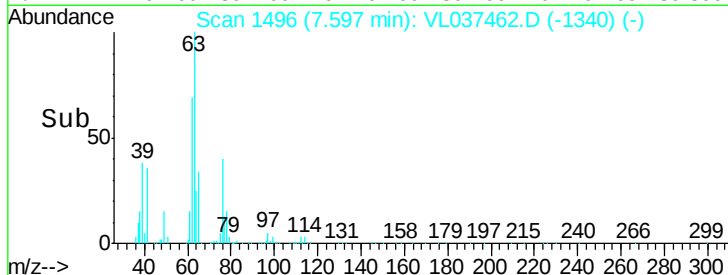
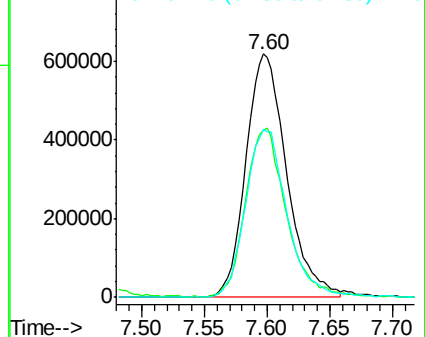
62 69.0 53.6 80.4

Manual Integrations  
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Abundance Ion 63.10 (62.80 to 63.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 9.847 ppbv m

RT: 7.82 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

Tgt Ion: 88 Resp: 359852

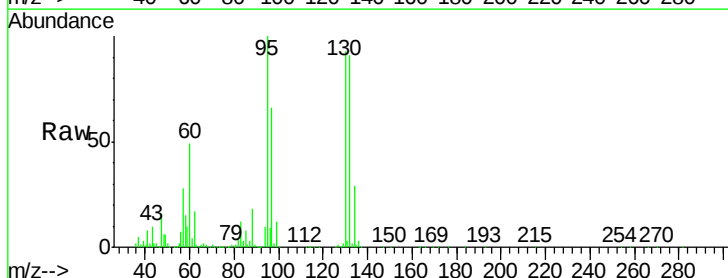
Ion Ratio Lower Upper

88 100

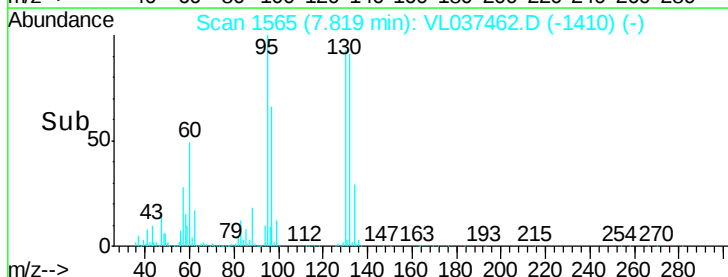
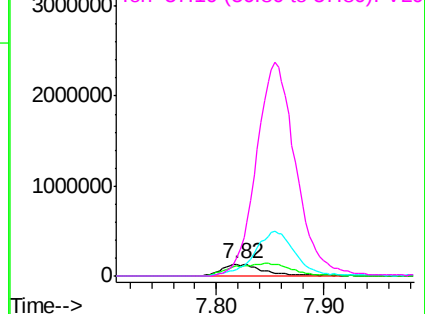
58 0.0 0.0 0.0

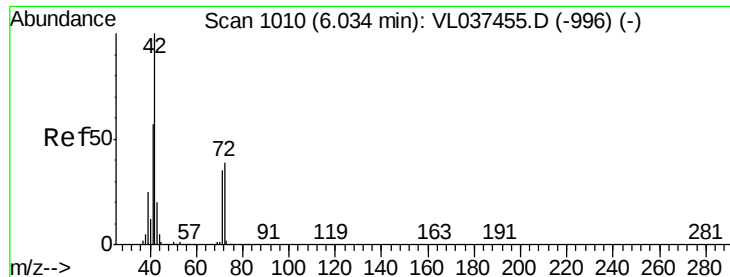
43 0.0 0.0 0.0

57 0.0 0.0 0.0



Abundance Ion 88.10 (87.80 to 88.80): VL0  
Ion 58.10 (57.80 to 58.80): VL0  
Ion 43.10 (42.80 to 43.80): VL0  
Ion 57.10 (56.80 to 57.80): VL0





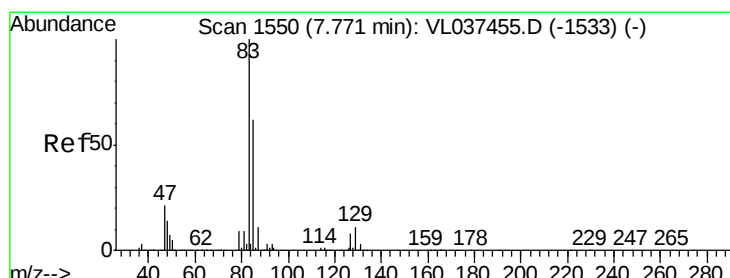
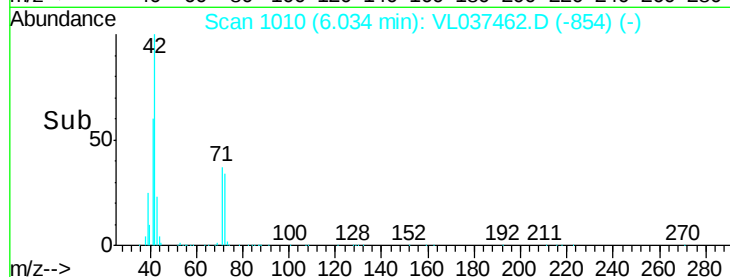
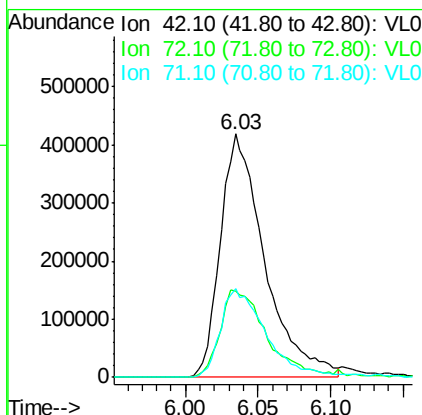
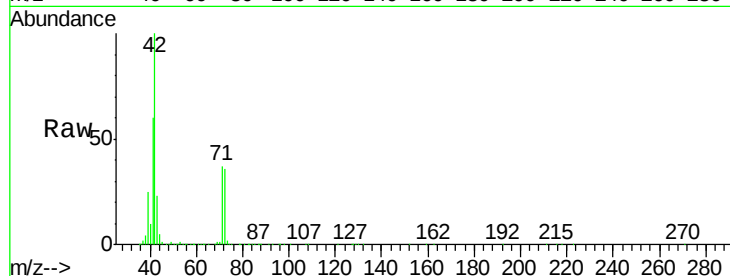
#41  
Tetrahydrofuran  
Concen: 9.675 ppbv  
RT: 6.03 min Scan# 1010  
Delta R.T. -0.00 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081621

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 39.8  | 32.2  | 48.4  |
| 71      | 38.9  | 30.5  | 45.7  |

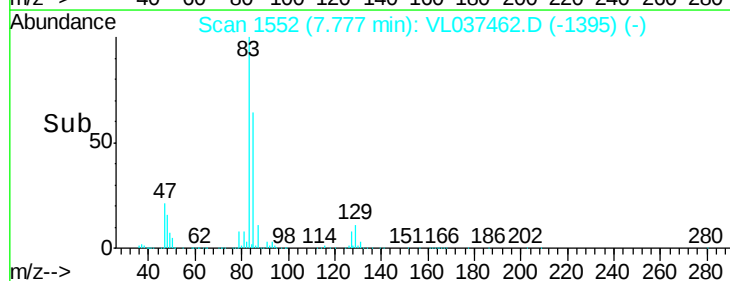
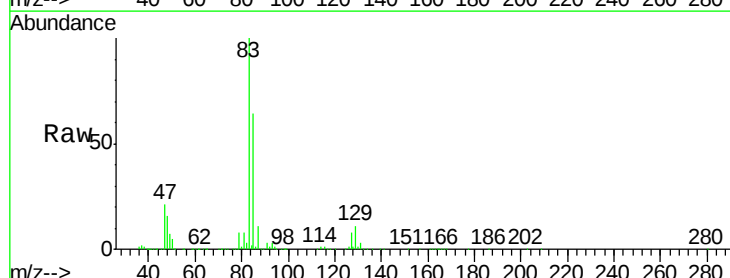
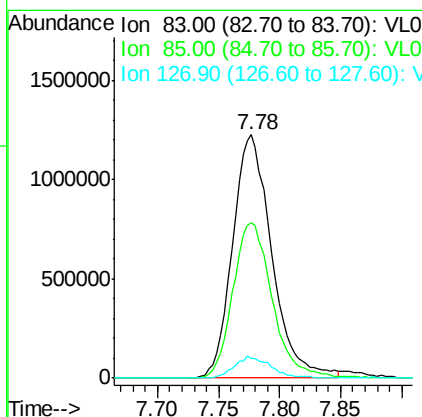
Manual Integrations  
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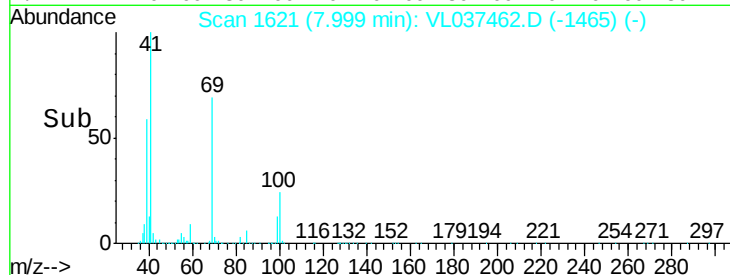
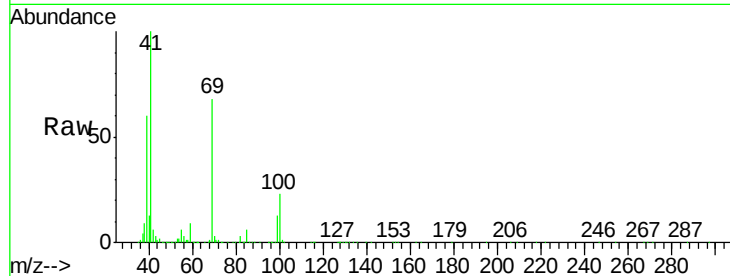
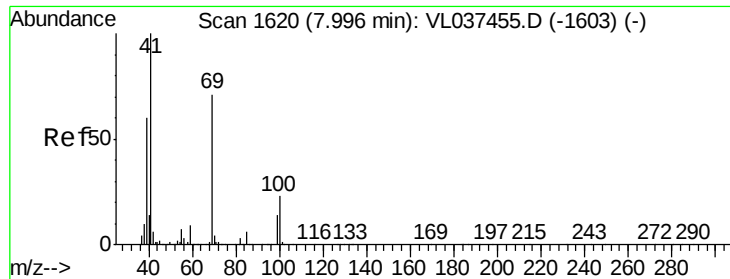
MMDadoda  
8/19/2021 5:59:21 PM



#42  
Bromodichloromethane  
Concen: 9.720 ppbv  
RT: 7.78 min Scan# 1552  
Delta R.T. 0.01 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 63.9  | 49.5  | 74.3  |
| 127     | 8.2   | 6.3   | 9.5   |





#43

Methvl Methacrilate

Concen: 9.911 ppbv

RT: 8.00 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

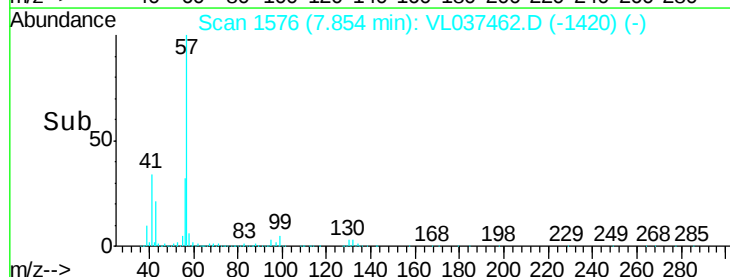
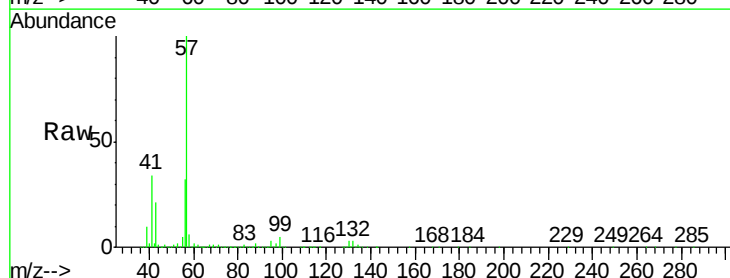
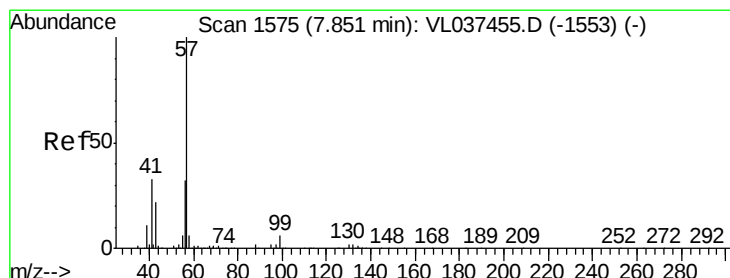
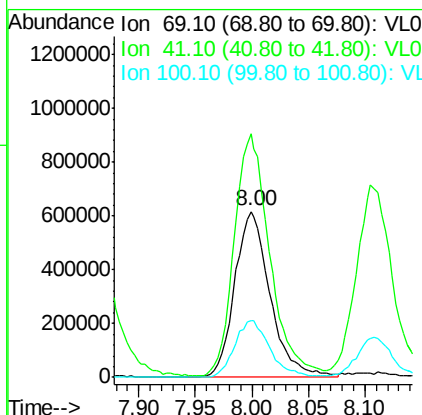
Tot Ion: 69 Resp: 1340996

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 147.6 | 118.6 | 178.0 |
| 100 | 34.2  | 27.4  | 41.0  |

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081621

Manual Integrations  
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#44

2,2,4-Trimethylpentane

Concen: 9.272 ppbv

RT: 7.85 min Scan# 1576

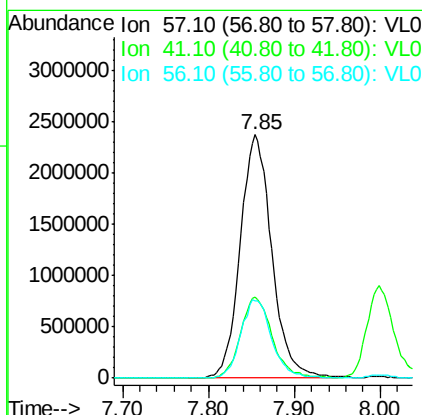
Delta R.T. 0.00 min

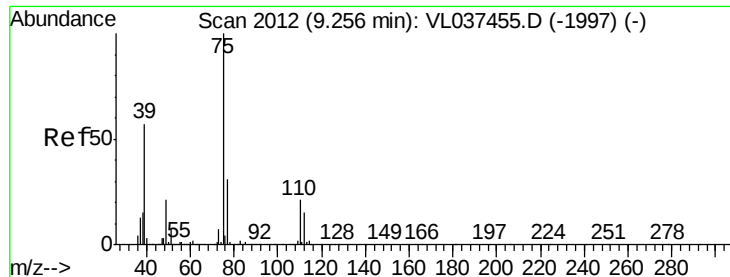
Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

Tgt Ion: 57 Resp: 6057602

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 33.2  | 26.2  | 39.4  |
| 56  | 31.7  | 25.4  | 38.2  |





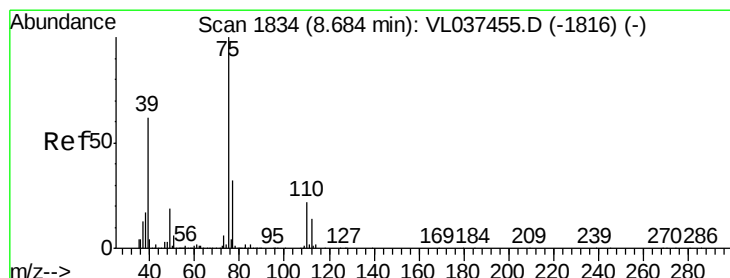
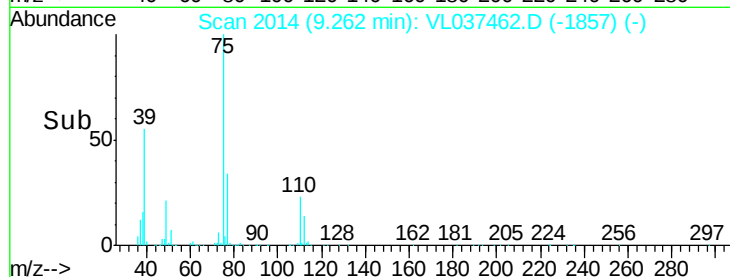
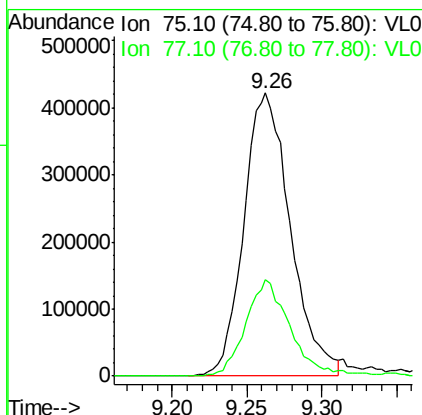
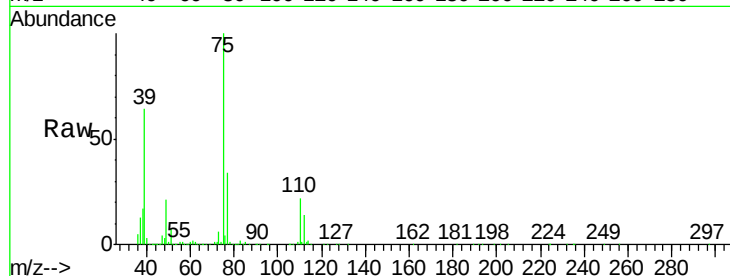
#45  
t-1,3-Dichloropropene  
Concen: 8.941 ppbv  
RT: 9.26 min Scan# 2014  
Delta R.T. 0.01 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081621

Tot Ion: 75 Resp: 910654  
Ion Ratio Lower Upper  
75 100  
77 34.0 24.5 36.7

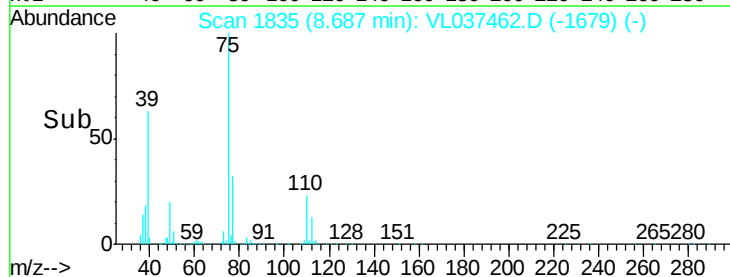
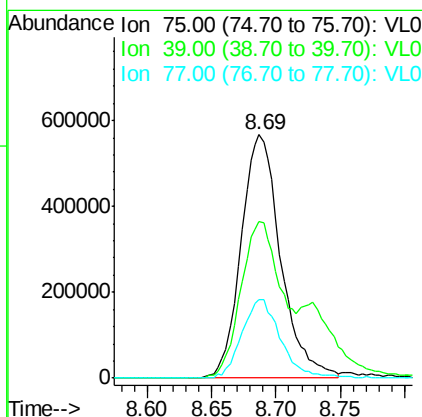
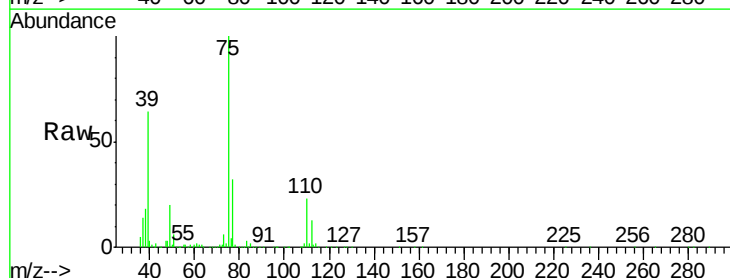
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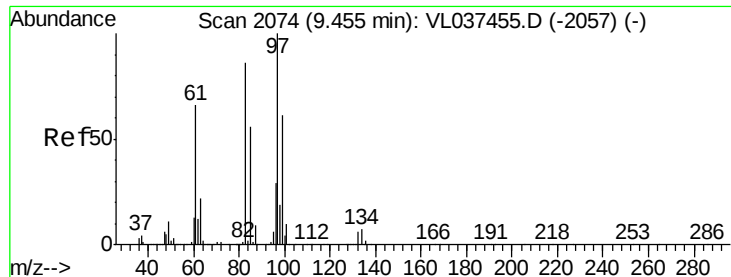
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#46  
cis-1,3-Dichloropropene  
Concen: 8.531 ppbv  
RT: 8.69 min Scan# 1835  
Delta R.T. 0.00 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

Tgt Ion: 75 Resp: 1212074  
Ion Ratio Lower Upper  
75 100  
39 64.1 49.7 74.5  
77 32.1 25.4 38.0





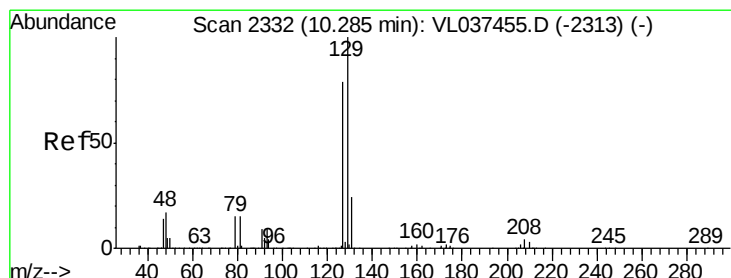
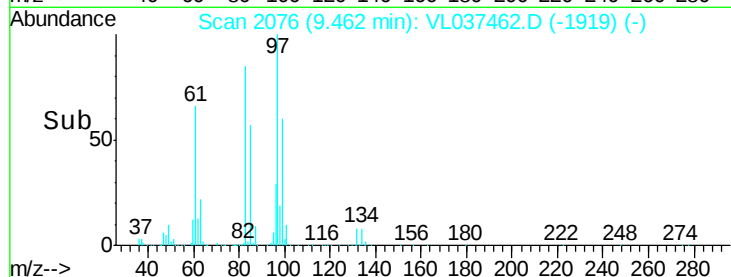
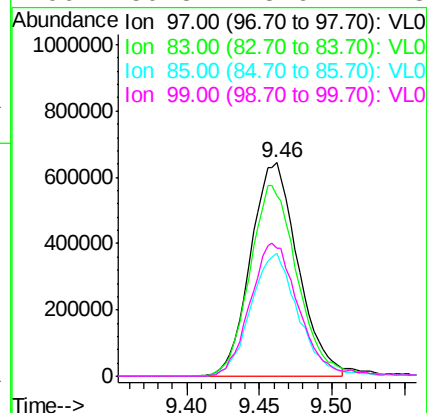
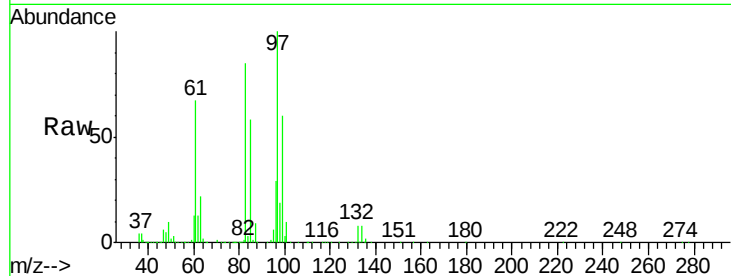
#47  
 1,1,2-Trichloroethane  
 Concen: 9.077 ppbv  
 RT: 9.46 min Scan# 2076  
 Delta R.T. 0.01 min  
 Lab File: VL037462.D  
 Acq: 16 Aug 2021 15:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081621

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 97      | 100  |       |       |       |
| 83      | 84.6 | 68.7  | 103.1 |       |
| 85      | 57.6 | 44.7  | 67.1  |       |
| 99      | 59.8 | 48.6  | 72.8  |       |

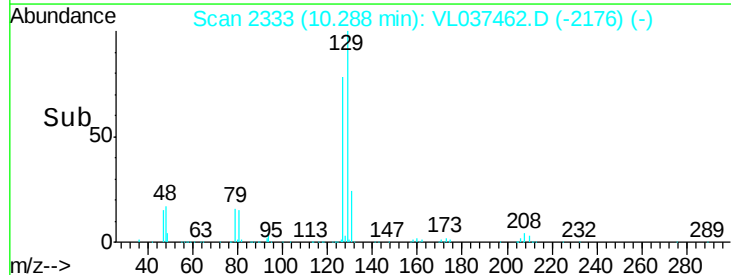
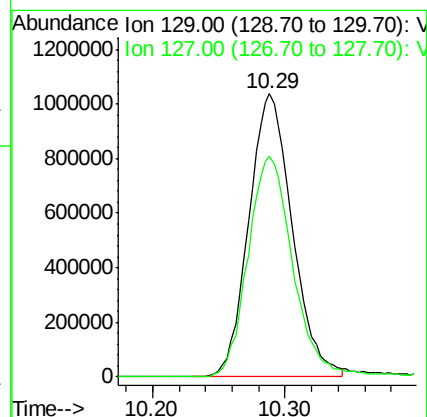
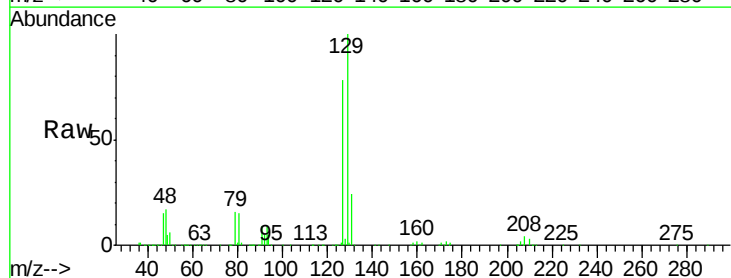
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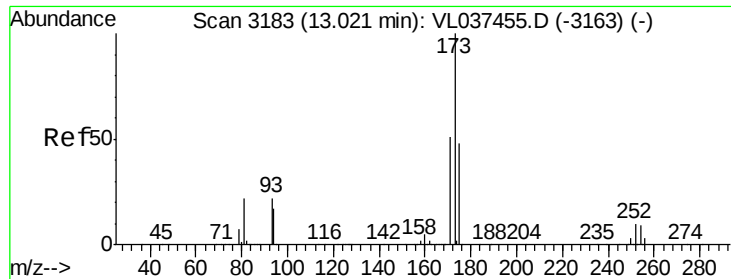
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#48  
 Dibromochloromethane  
 Concen: 10.166 ppbv  
 RT: 10.29 min Scan# 2333  
 Delta R.T. 0.00 min  
 Lab File: VL037462.D  
 Acq: 16 Aug 2021 15:12

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 129     | 100  |       |       |       |
| 127     | 81.8 | 40.0  | 120.0 |       |





#49

Bromoform

Concen: 10.615 ppbv

RT: 13.02 min Scan# 3183

Delta R.T. -0.00 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081621

Tot Ion:173 Resp: 1940781

Ion Ratio Lower Upper

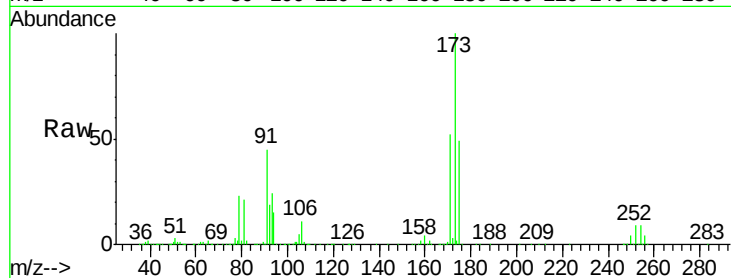
173 100

175 52.2 41.9 62.9

171 54.0 44.2 66.4

Manual Integrations  
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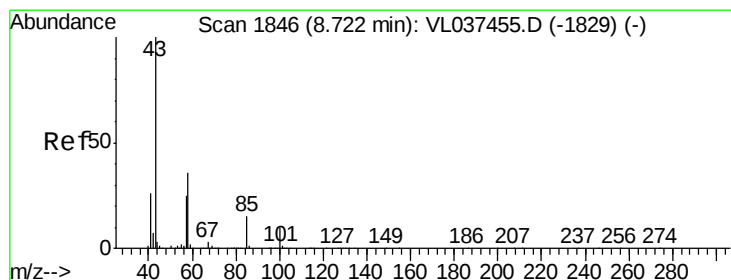
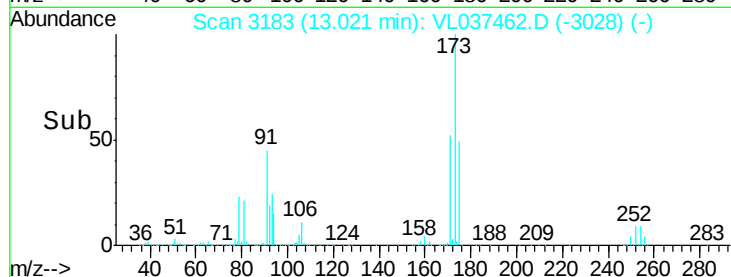
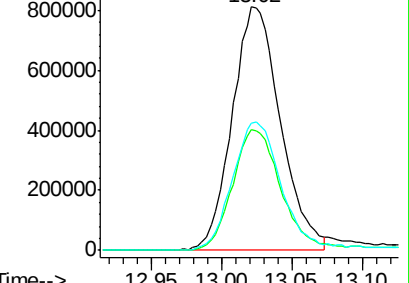
MMDadoda  
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.916 ppbv

RT: 8.73 min Scan# 1847

Delta R.T. 0.00 min

Lab File: VL037462.D

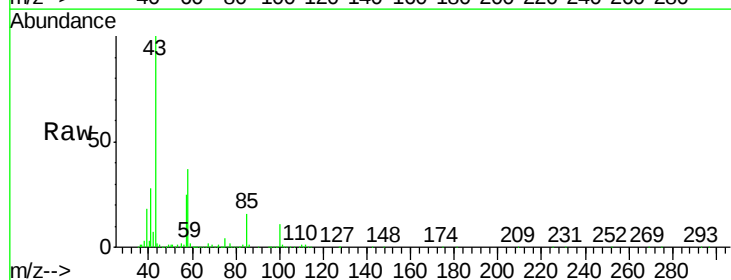
Acq: 16 Aug 2021 15:12

Tgt Ion: 43 Resp: 2439250

Ion Ratio Lower Upper

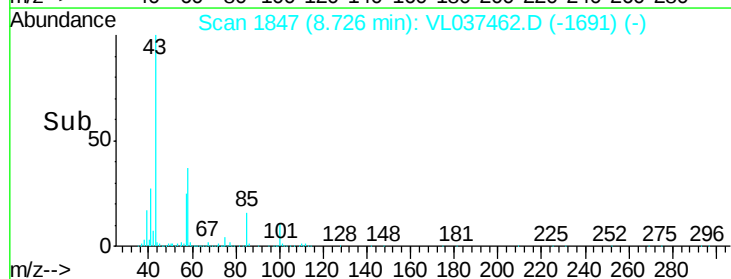
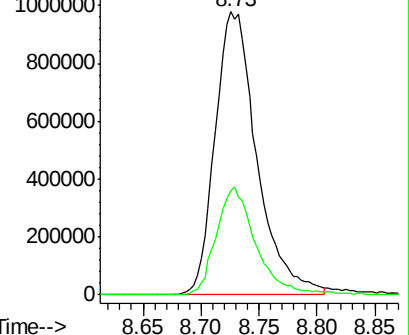
43 100

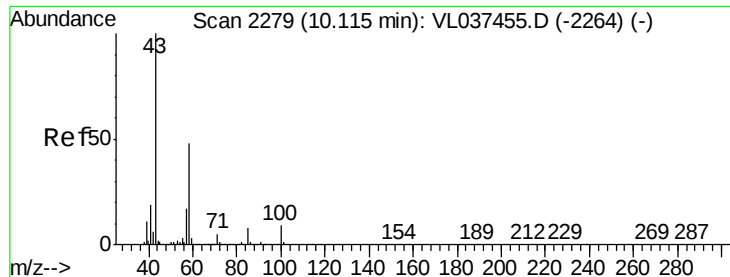
58 36.7 29.9 44.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 10.210 ppbv

RT: 10.12 min Scan# 2281

Delta R.T. 0.01 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081621

Tot Ion: 43 Resp: 1155340

Ion Ratio Lower Upper

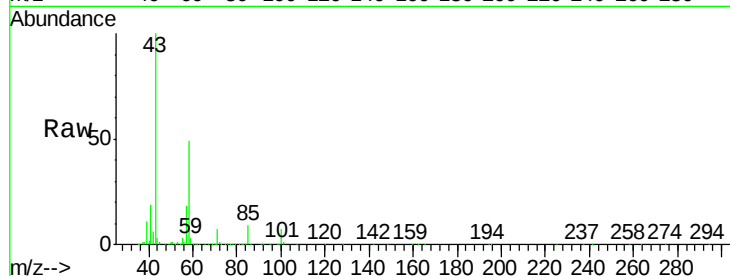
43 100

58 51.1 41.0 61.6

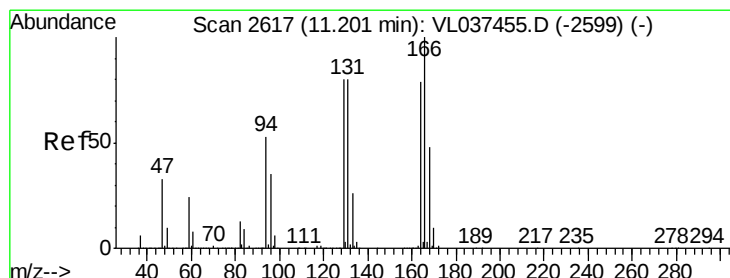
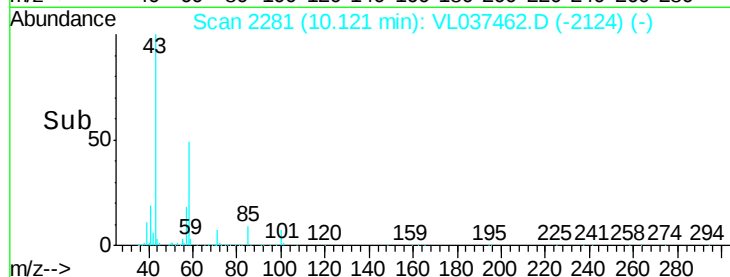
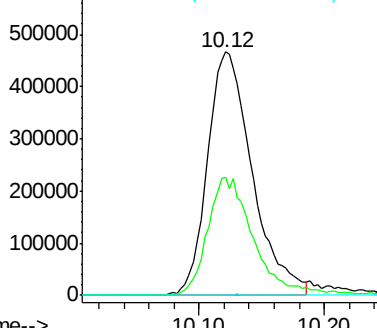
98 0.5 0.3 0.5#

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Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 58.10 (57.80 to 58.80): VL0  
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 8.502 ppbv

RT: 11.20 min Scan# 2618

Delta R.T. 0.00 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

Tgt Ion: 164 Resp: 1352482

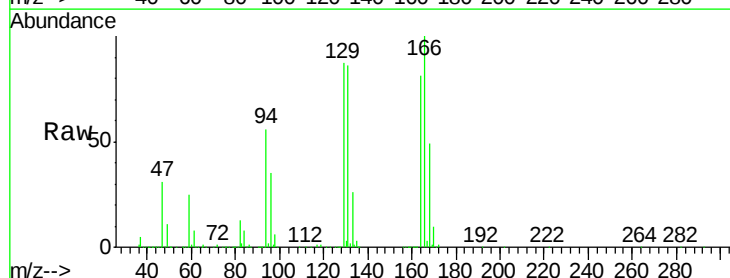
Ion Ratio Lower Upper

164 100

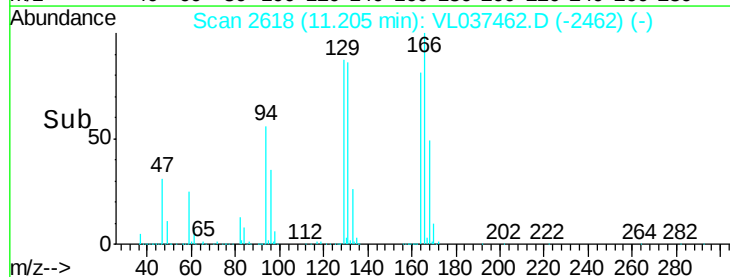
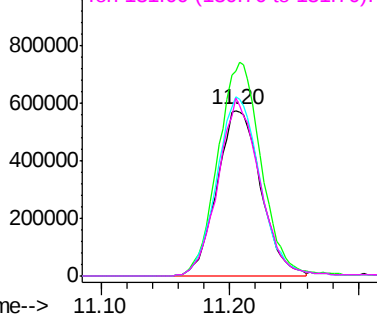
166 123.8 100.7 151.1

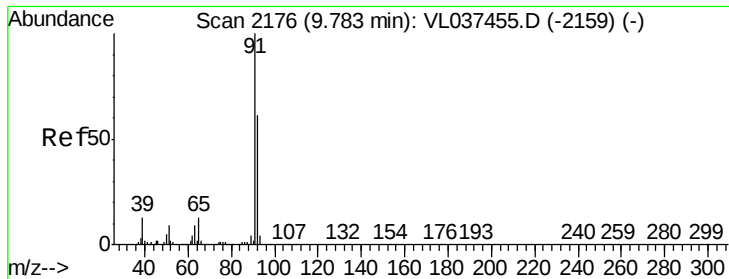
129 108.2 80.9 121.3

131 107.0 80.2 120.4



Abundance Ion 163.90 (163.60 to 164.60): V  
Ion 165.90 (165.60 to 166.60): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 9.602 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081621

Tot Ion: 91 Resp: 4256098

Ion Ratio Lower Upper

91 100

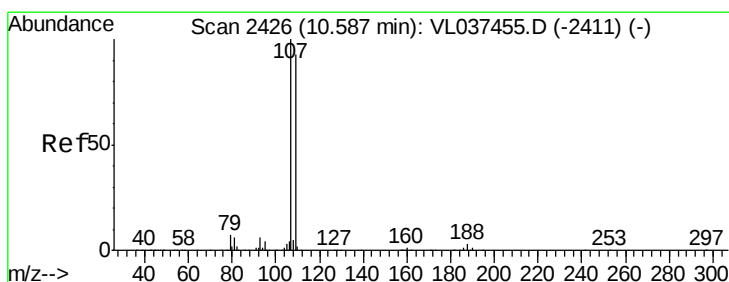
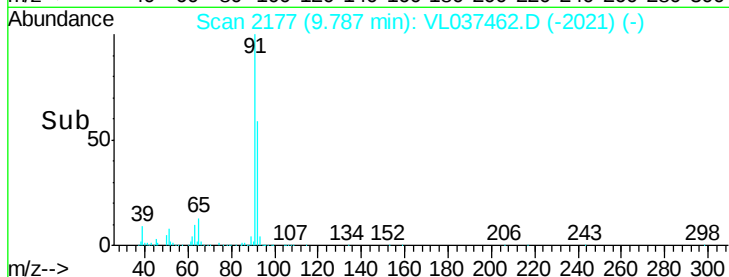
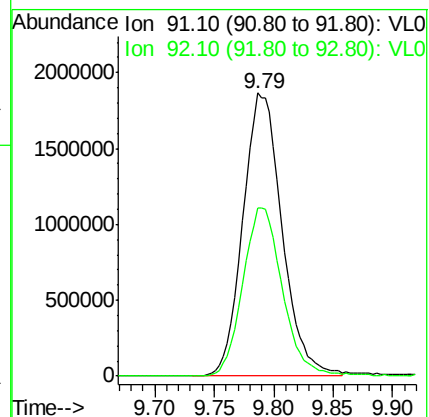
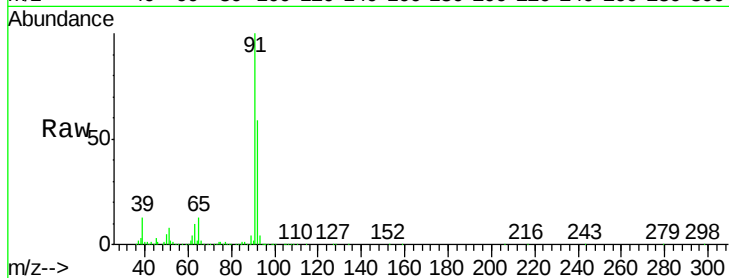
92 60.8 48.8 73.2

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#54

1,2-Dibromoethane

Concen: 9.337 ppbv

RT: 10.59 min Scan# 2428

Delta R.T. 0.01 min

Lab File: VL037462.D

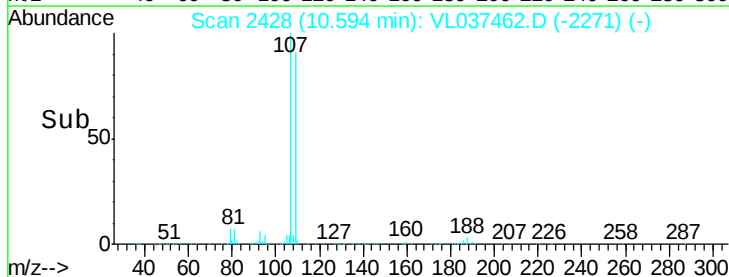
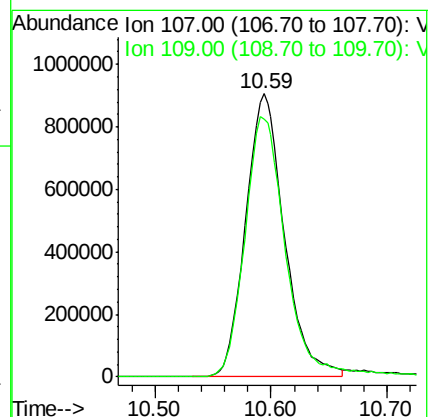
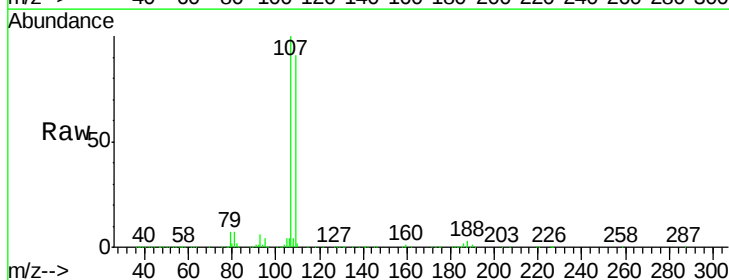
Acq: 16 Aug 2021 15:12

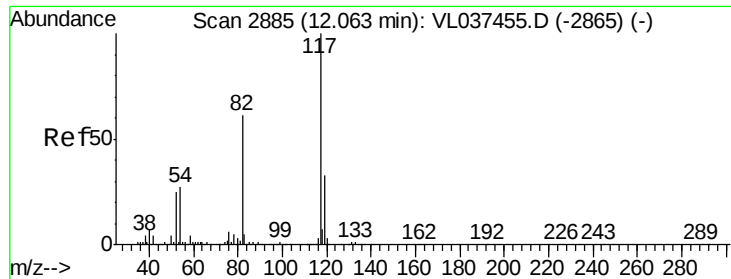
Tgt Ion: 107 Resp: 2100813

Ion Ratio Lower Upper

107 100

109 91.0 74.2 111.4





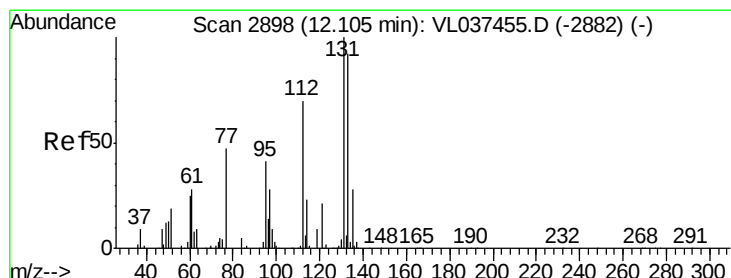
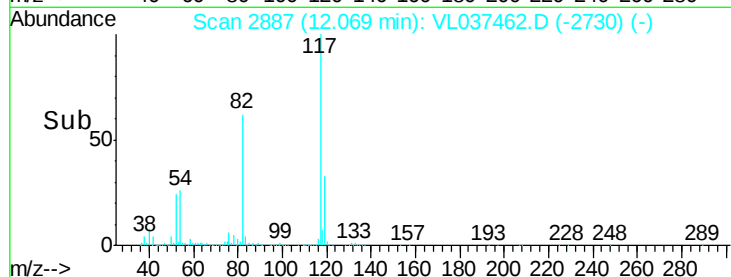
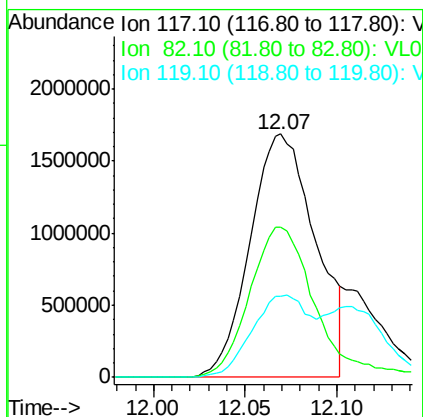
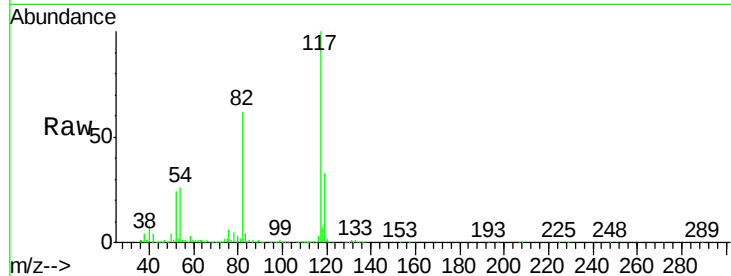
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv m  
RT: 12.07 min Scan# 2887  
Delta R.T. 0.01 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081621

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 65.1  | 52.9  | 79.3  |
| 119     | 33.7  | 24.8  | 37.2  |

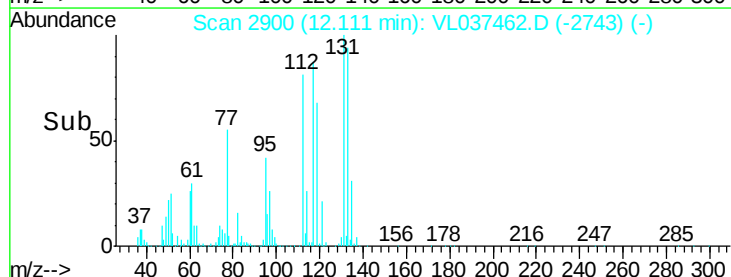
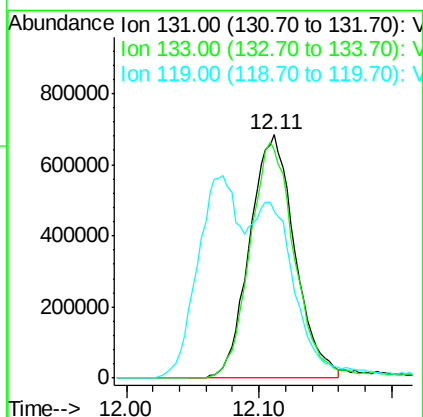
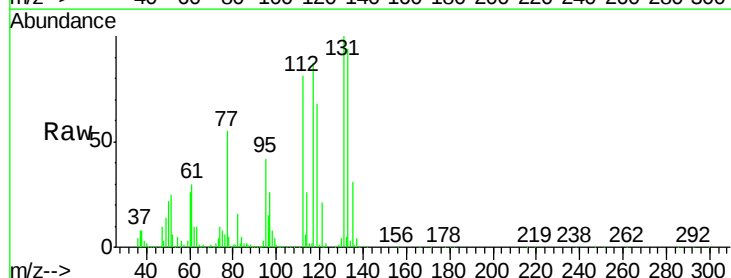
Manual Integrations  
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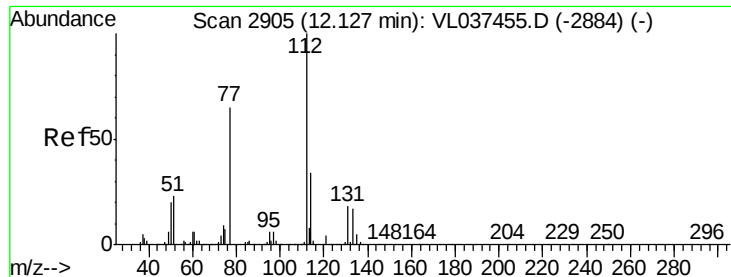
MMDadoda  
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#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.294 ppbv  
RT: 12.11 min Scan# 2900  
Delta R.T. 0.01 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 131     | 100   |       |       |
| 133     | 98.1  | 78.7  | 118.1 |
| 119     | 68.7  | 56.6  | 85.0  |





#57

Chlorobenzene

Concen: 8.912 ppbv

RT: 12.13 min Scan# 2905

Delta R.T. -0.00 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081621

Tot Ion: 112 Resp: 3096611

Ion Ratio Lower Upper

112 100

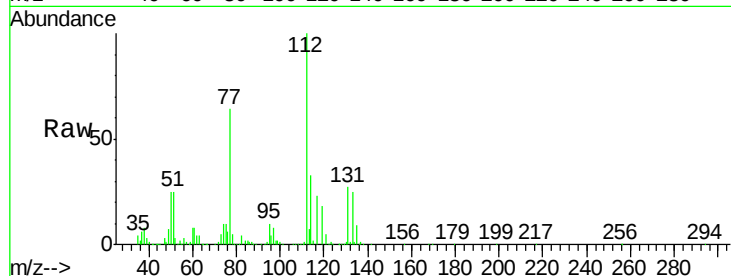
77 63.2 51.6 77.4

114 32.4 30.7 37.5

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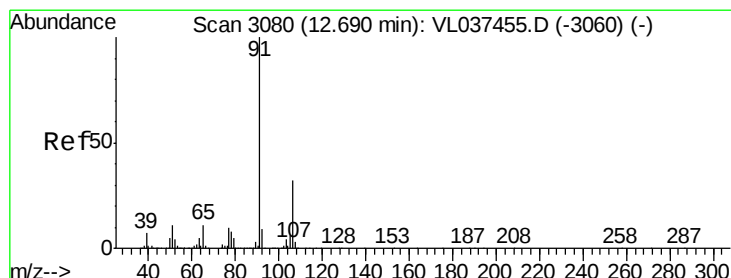
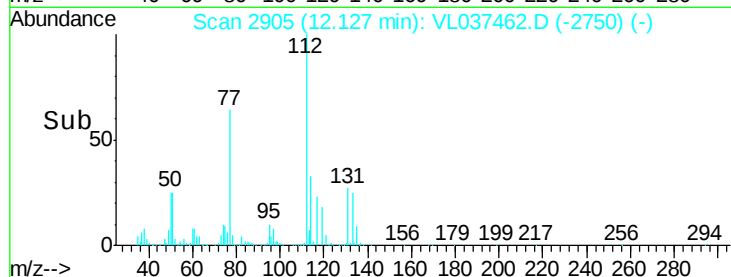
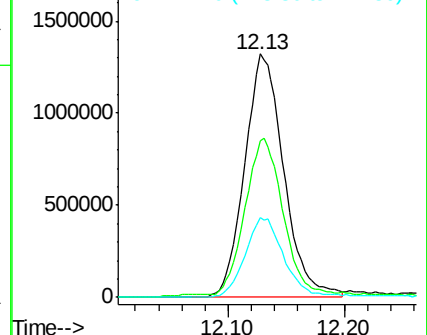
8/19/2021 5:59:21 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.345 ppbv

RT: 12.69 min Scan# 3081

Delta R.T. 0.00 min

Lab File: VL037462.D

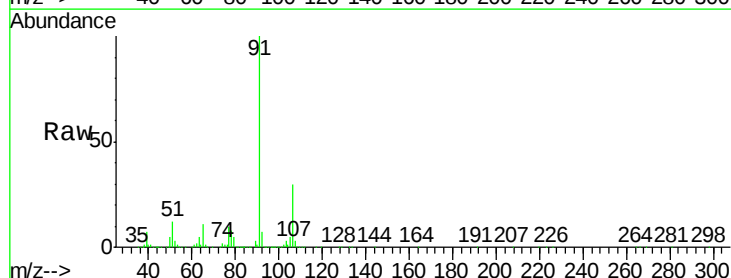
Acq: 16 Aug 2021 15:12

Tgt Ion: 91 Resp: 5429818

Ion Ratio Lower Upper

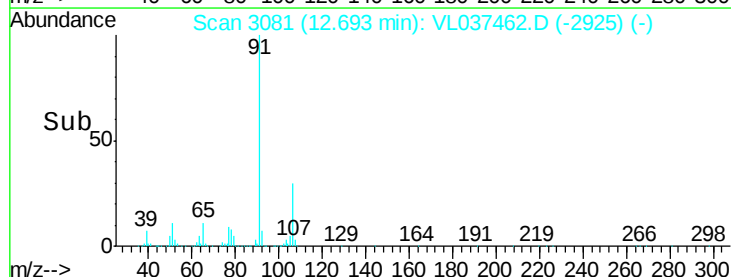
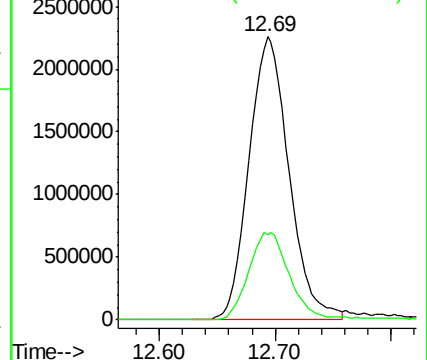
91 100

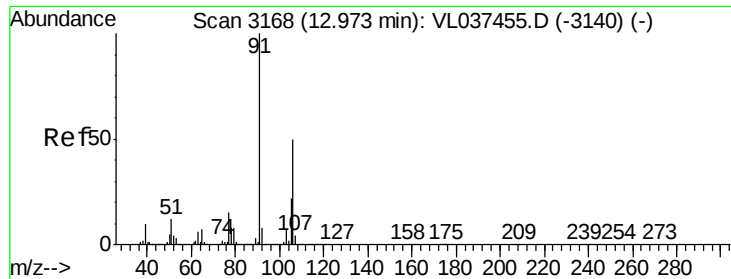
106 30.2 25.7 38.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





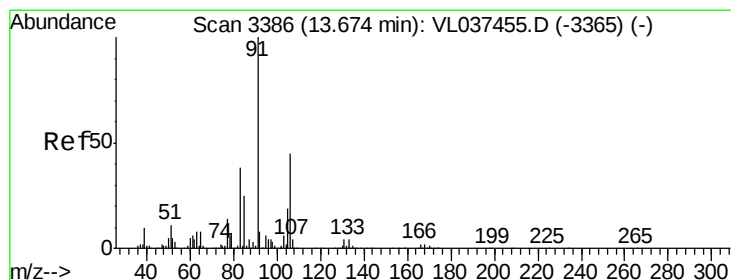
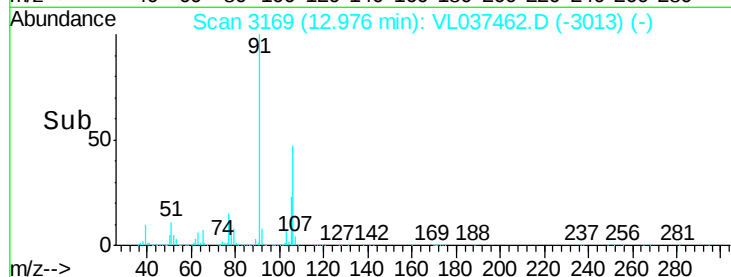
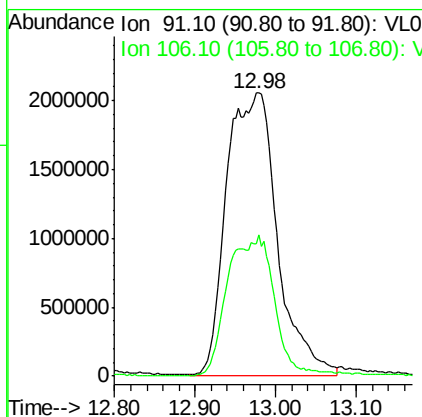
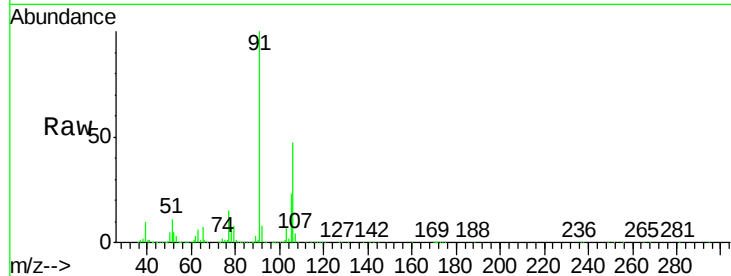
#59  
m/p-Xylene  
Concen: 18.041 ppbv m  
RT: 12.98 min Scan# 3169  
Delta R.T. 0.00 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081621

Tot Ion: 91 Resp: 9088071  
Ion Ratio Lower Upper  
91 100  
106 45.7 36.9 55.3

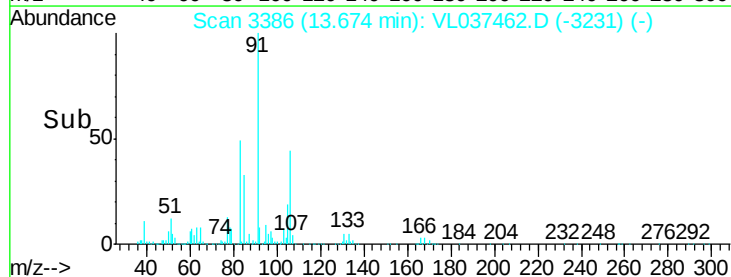
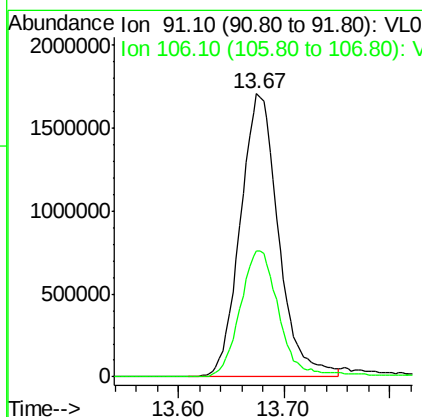
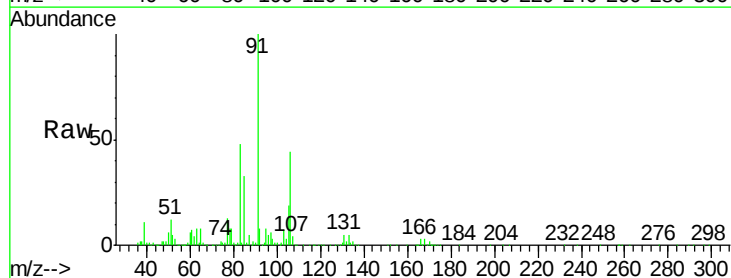
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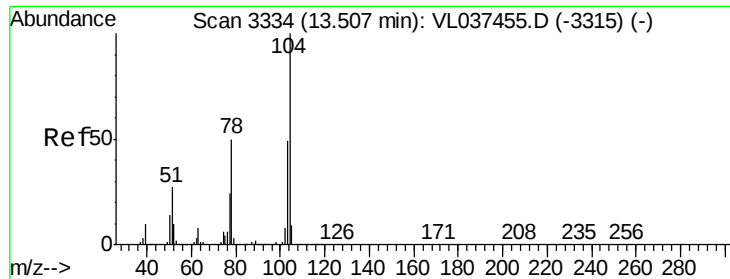
MMDadoda  
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#60  
o-Xylene  
Concen: 9.131 ppbv  
RT: 13.67 min Scan# 3386  
Delta R.T. -0.00 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

Tgt Ion: 91 Resp: 4293318  
Ion Ratio Lower Upper  
91 100  
106 46.5 23.7 71.1





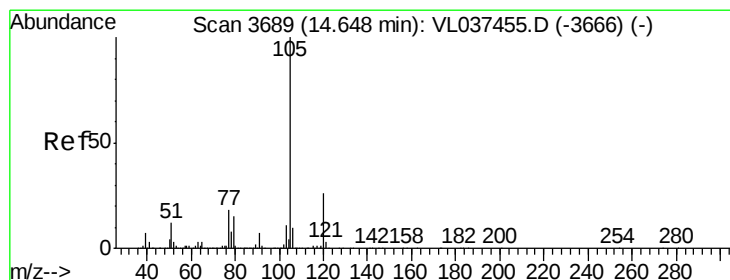
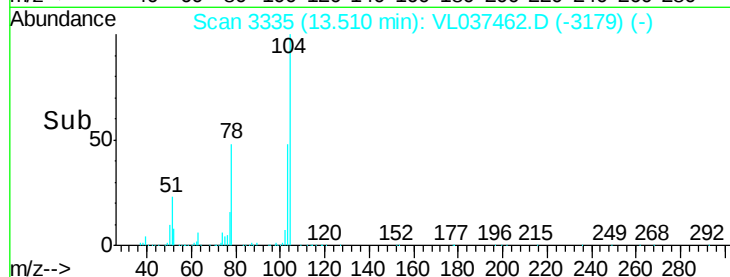
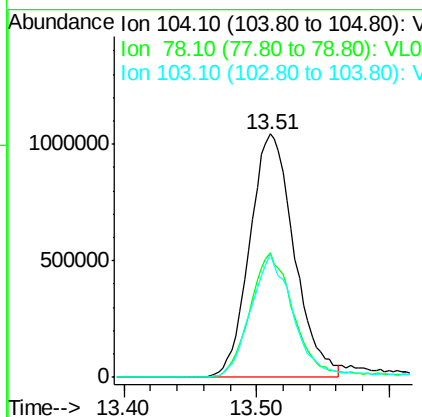
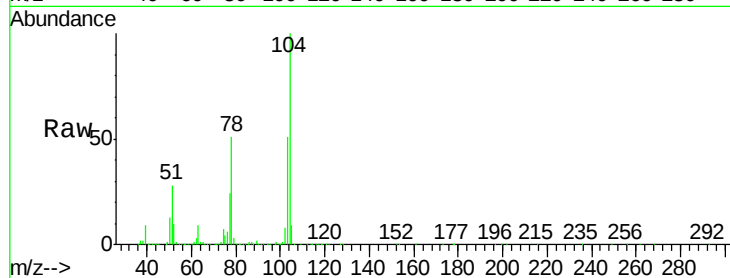
#61  
Stvrene  
Concen: 9.980 ppbv  
RT: 13.51 min Scan# 3335  
Delta R.T. 0.00 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081621

Tot Ion:104 Resp: 2437502  
Ion Ratio Lower Upper  
104 100  
78 51.7 41.3 61.9  
103 50.2 39.4 59.0

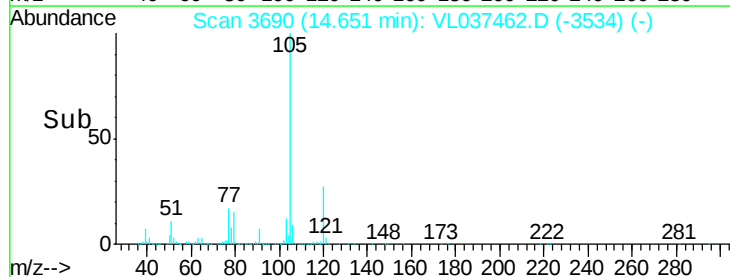
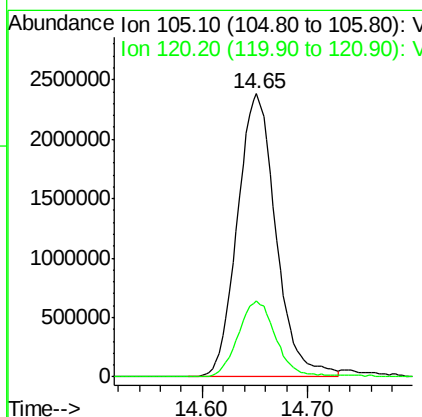
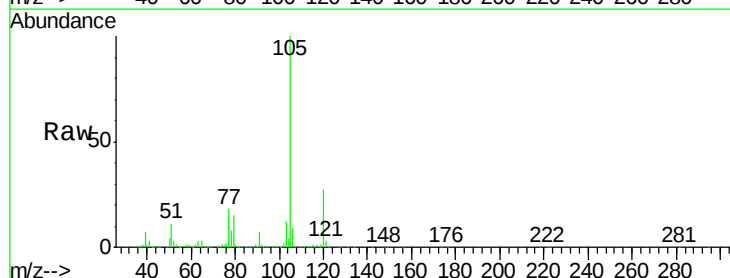
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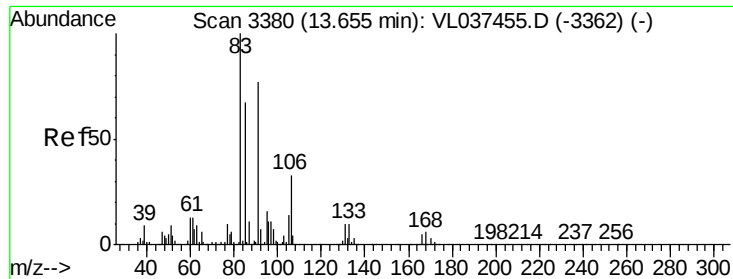
MMDadoda  
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#62  
Isopropylbenzene  
Concen: 9.124 ppbv  
RT: 14.65 min Scan# 3690  
Delta R.T. 0.00 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

Tgt Ion:105 Resp: 6054407  
Ion Ratio Lower Upper  
105 100  
120 26.9 21.5 32.3





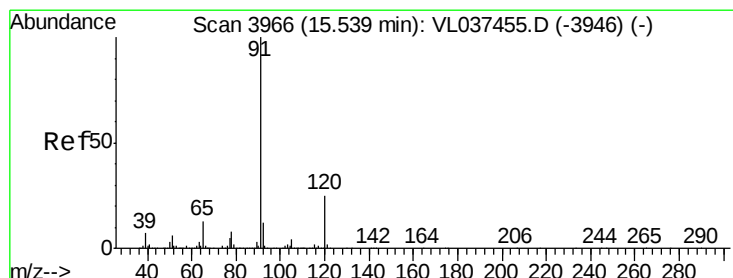
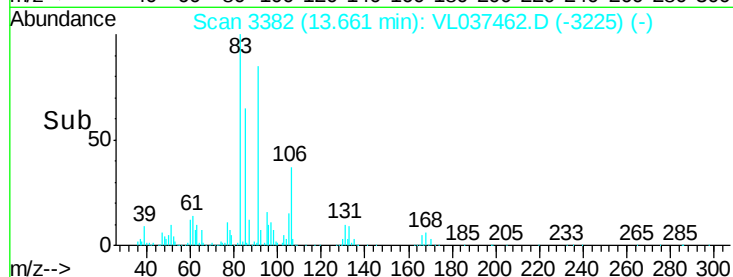
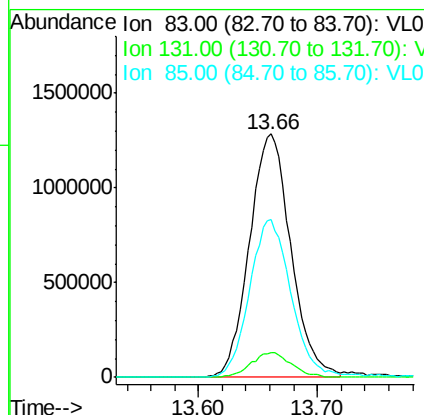
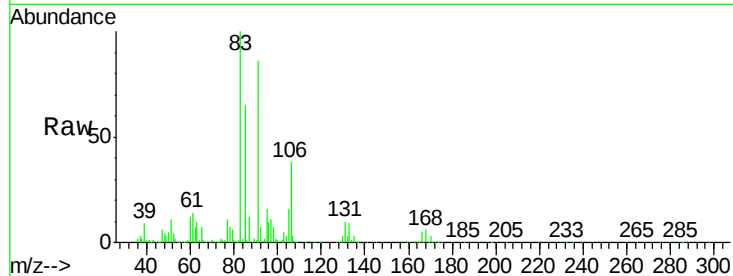
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 8.838 ppbv  
 RT: 13.66 min Scan# 3382  
 Delta R.T. 0.01 min  
 Lab File: VL037462.D  
 Acq: 16 Aug 2021 15:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081621

Tot Ion: 83 Resp: 3088280  
 Ion Ratio Lower Upper  
 83 100  
 131 10.2 5.0 15.0  
 85 66.5 33.8 101.3

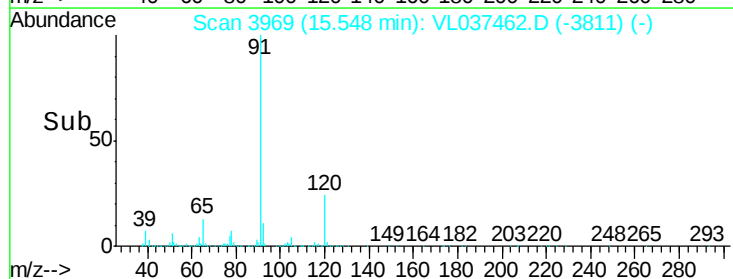
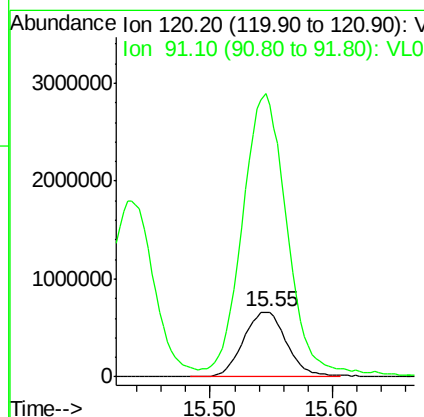
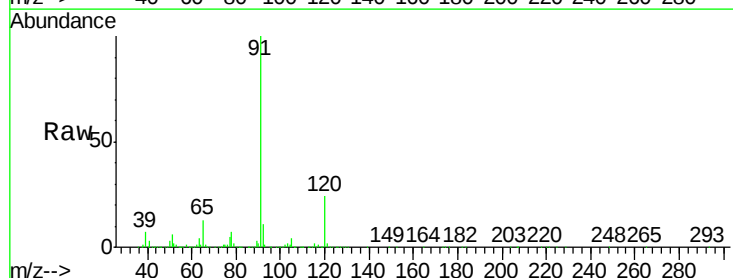
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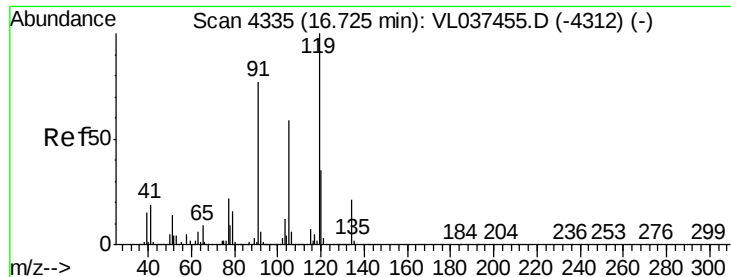
MMDadoda  
 8/19/2021 5:59:21 PM



#64  
 n-propylbenzene  
 Concen: 9.596 ppbv  
 RT: 15.55 min Scan# 3969  
 Delta R.T. 0.01 min  
 Lab File: VL037462.D  
 Acq: 16 Aug 2021 15:12

Tgt Ion: 120 Resp: 1620480  
 Ion Ratio Lower Upper  
 120 100  
 91 457.9 373.8 560.6





#65

tert-Butylbenzene

Concen: 8.929 ppbv

RT: 16.73 min Scan# 4335

Delta R.T. -0.00 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

Instrument :

MSVOA\_L

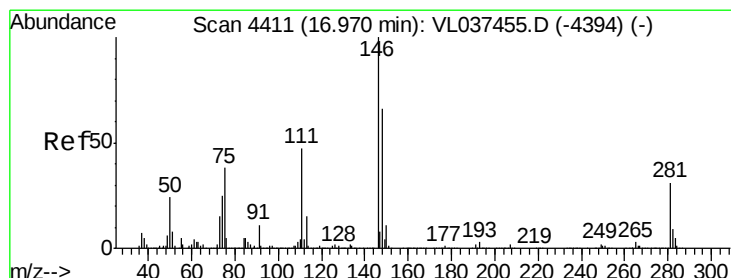
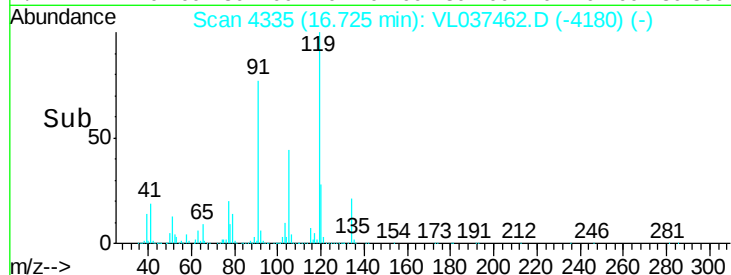
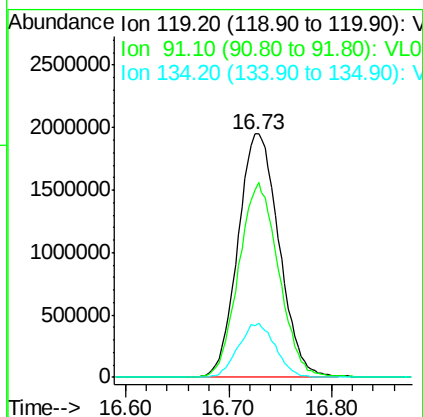
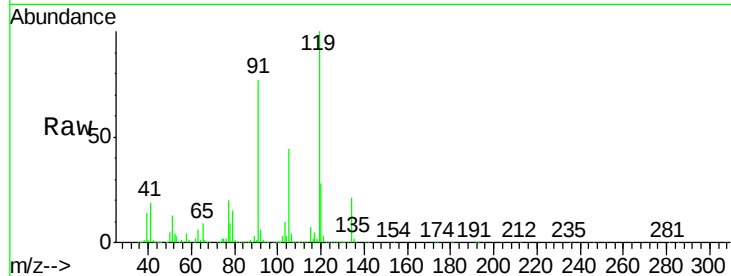
ClientSampleId :

ICVVL081621

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 119   | Resp: | 5395778 |
| Ion      | Ratio | Lower | Upper   |
| 119      | 100   |       |         |
| 91       | 78.0  | 62.9  | 94.3    |
| 134      | 20.4  | 16.4  | 24.6    |

Manual Integrations  
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#66

Benzyl Chloride

Concen: 9.900 ppbv

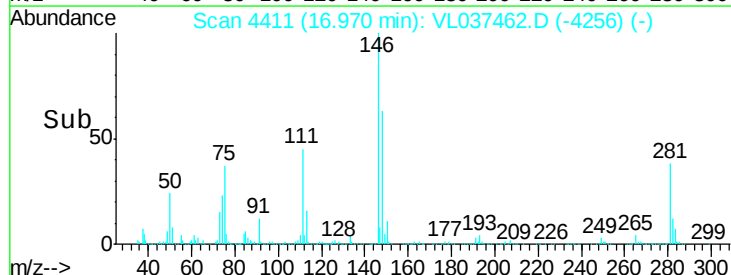
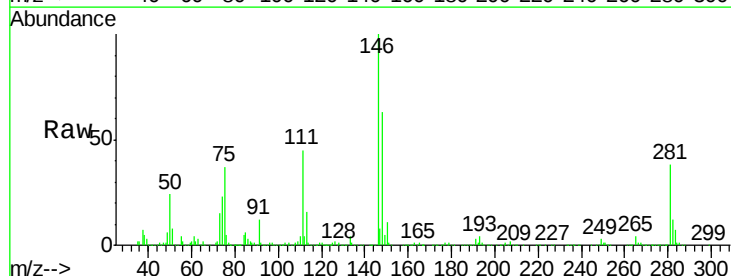
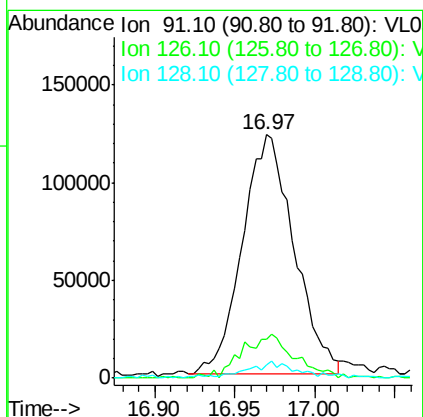
RT: 16.97 min Scan# 4411

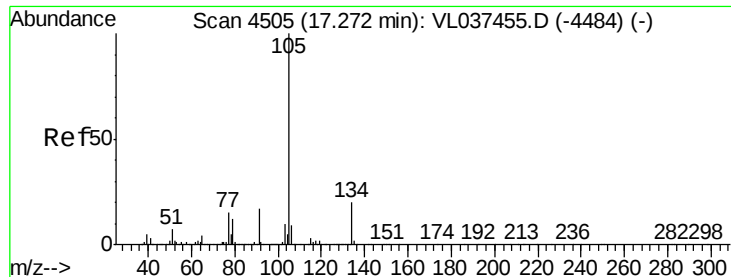
Delta R.T. -0.00 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 270649 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 126      | 19.6  | 15.9  | 23.9   |
| 128      | 7.6   | 5.4   | 8.0    |





#67

sec-Butylbenzene

Concen: 8.855 ppbv

RT: 17.28 min Scan# 4507

Delta R.T. 0.01 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081621

Tot Ion: 105 Resp: 7477444

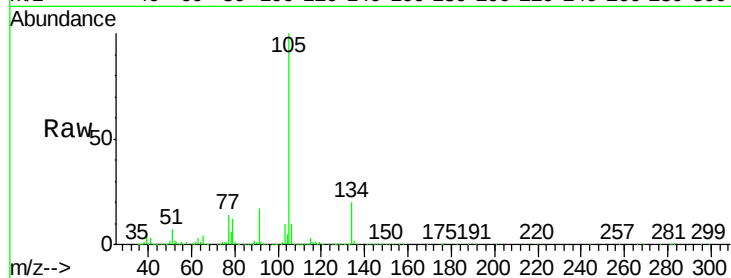
Ion Ratio Lower Upper

105 100

134 19.0 15.2 22.8

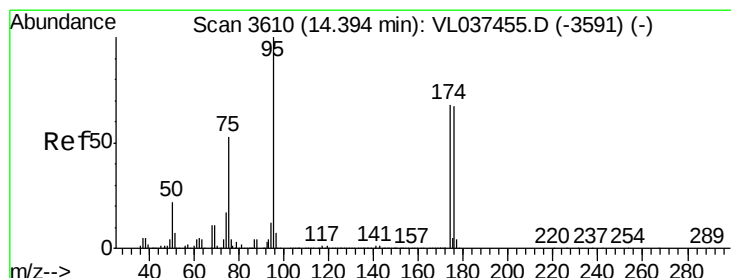
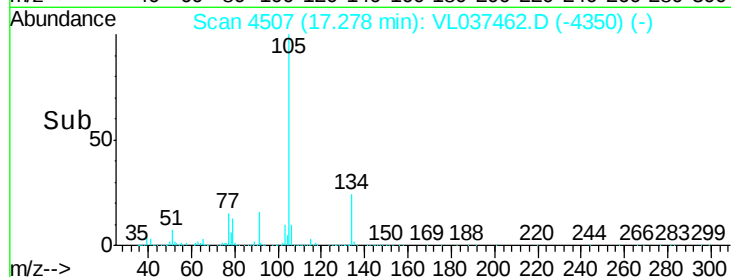
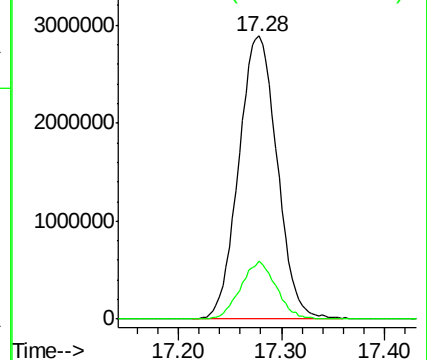
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.309 ppbv

RT: 14.40 min Scan# 3611

Delta R.T. 0.00 min

Lab File: VL037462.D

Acq: 16 Aug 2021 15:12

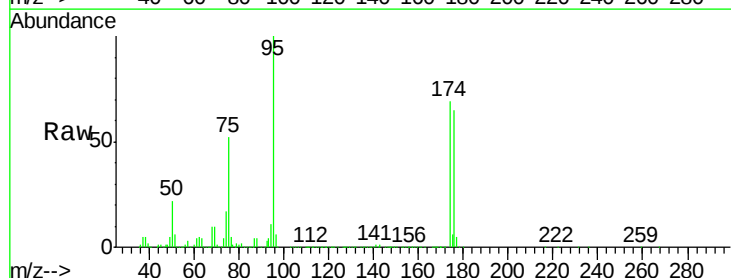
Tgt Ion: 95 Resp: 3066609

Ion Ratio Lower Upper

95 100

174 73.6 59.6 89.4

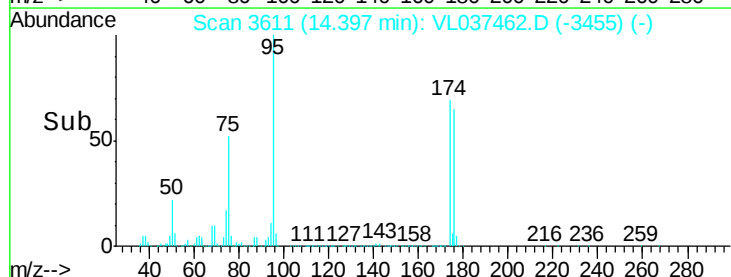
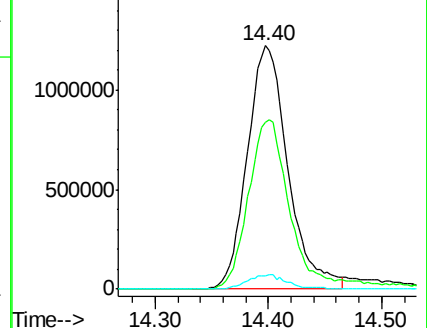
175 6.1 4.6 7.0

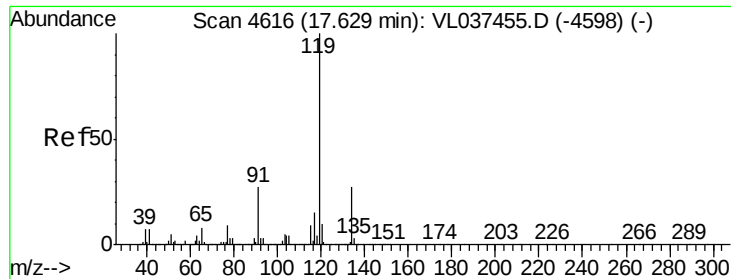


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





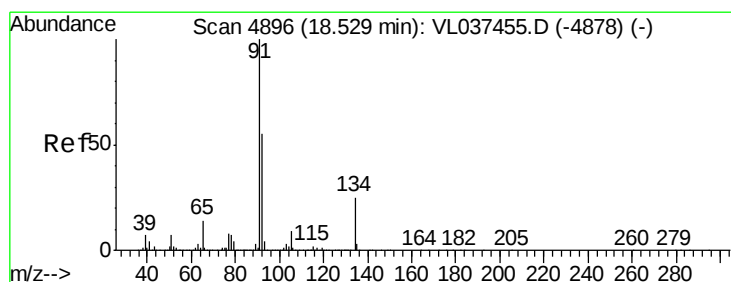
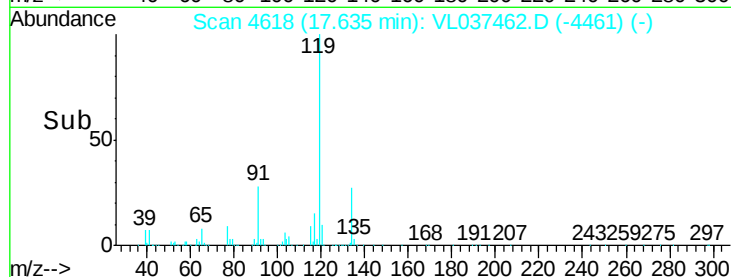
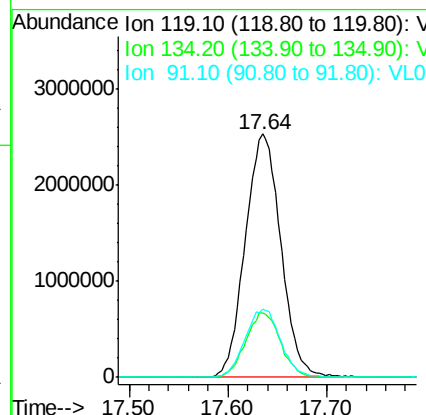
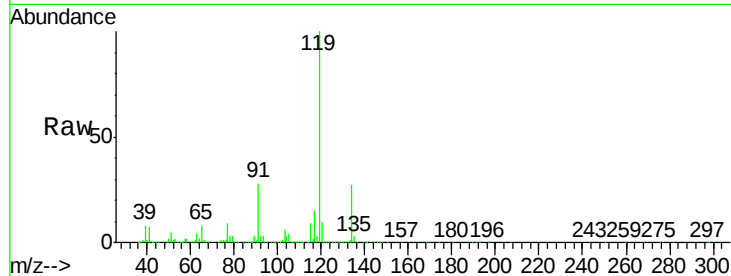
#69  
p-Isopropyltoluene  
Concen: 9.175 ppbv  
RT: 17.64 min Scan# 4618  
Delta R.T. 0.01 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081621

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 26.2  | 21.1  | 31.7  |
| 91      | 28.0  | 22.4  | 33.6  |

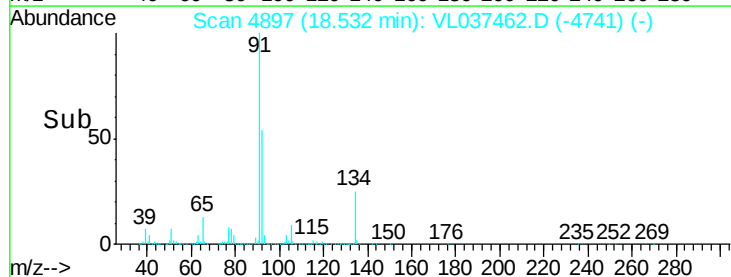
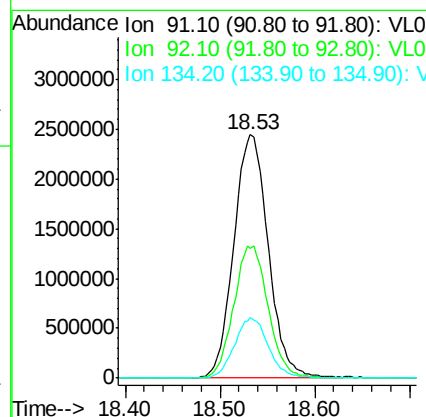
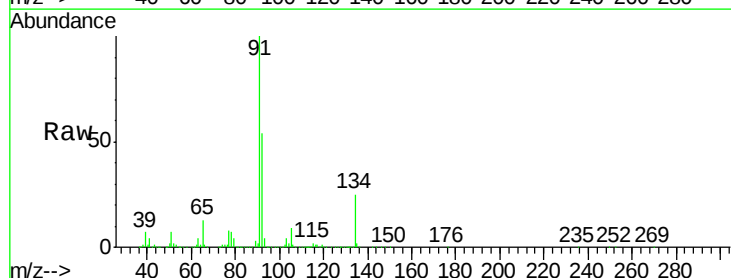
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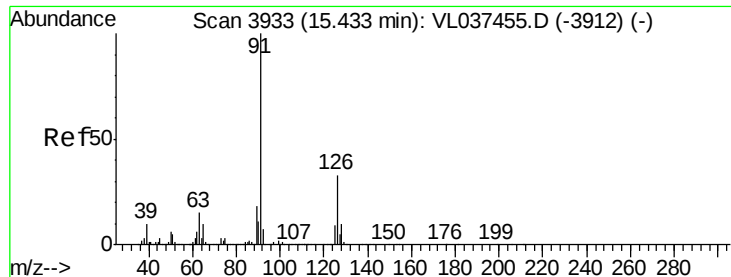
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#70  
n-Butylbenzene  
Concen: 9.394 ppbv  
RT: 18.53 min Scan# 4897  
Delta R.T. 0.00 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 54.7  | 44.0  | 66.0  |
| 134     | 24.4  | 19.5  | 29.3  |





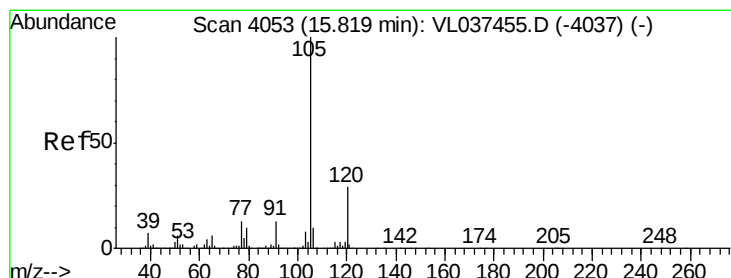
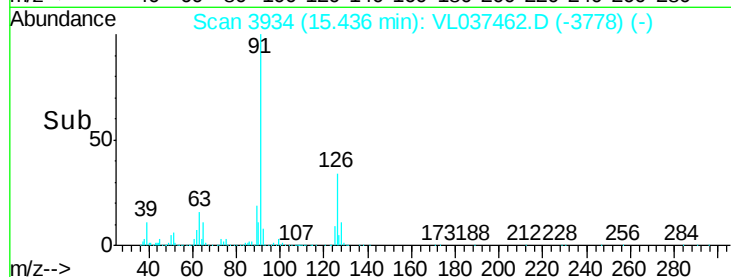
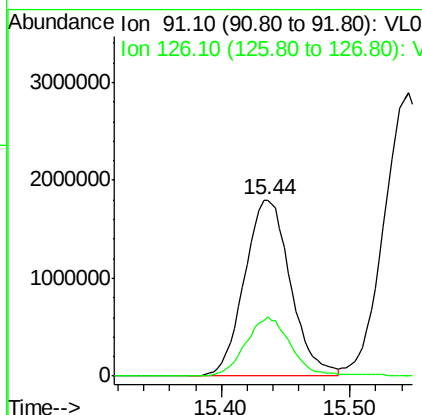
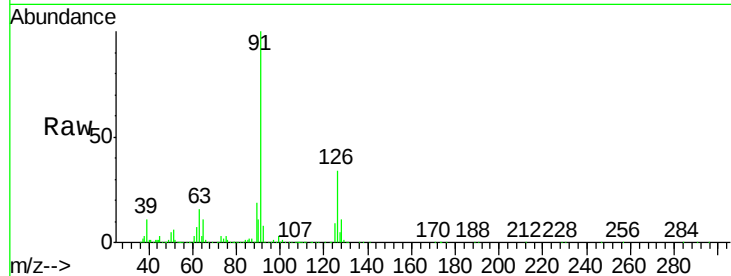
#71  
 2-Chlorotoluene  
 Concen: 9.193 ppbv  
 RT: 15.44 min Scan# 3934  
 Delta R.T. 0.00 min  
 Lab File: VL037462.D  
 Acq: 16 Aug 2021 15:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081621

Tot Ion: 91 Resp: 4473364  
 Ion Ratio Lower Upper  
 91 100  
 126 33.8 13.6 54.4

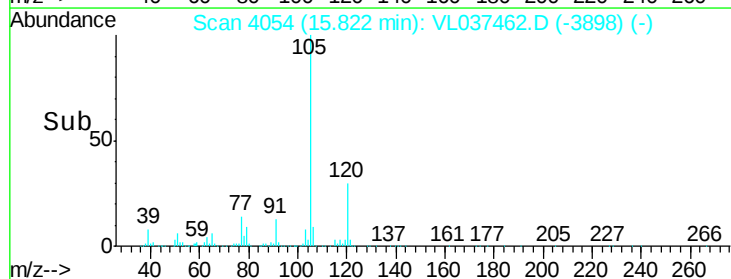
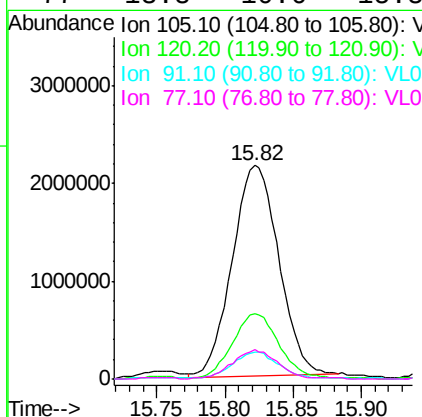
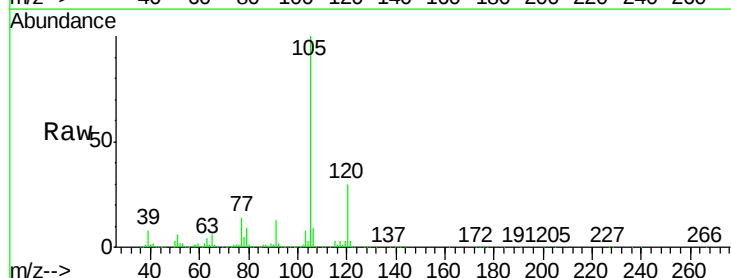
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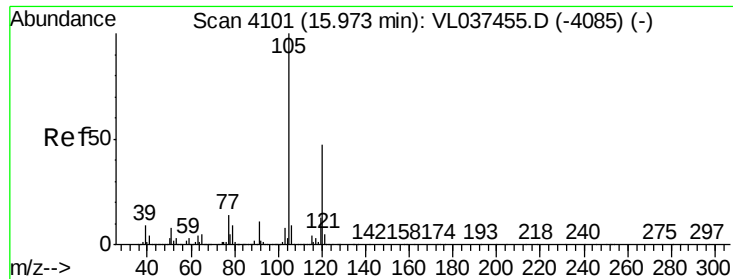
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#72  
 4-Ethyltoluene  
 Concen: 9.149 ppbv  
 RT: 15.82 min Scan# 4054  
 Delta R.T. 0.00 min  
 Lab File: VL037462.D  
 Acq: 16 Aug 2021 15:12

Tgt Ion: 105 Resp: 5116666  
 Ion Ratio Lower Upper  
 105 100  
 120 31.8 24.7 37.1  
 91 12.3 9.8 14.8  
 77 13.8 10.6 15.8





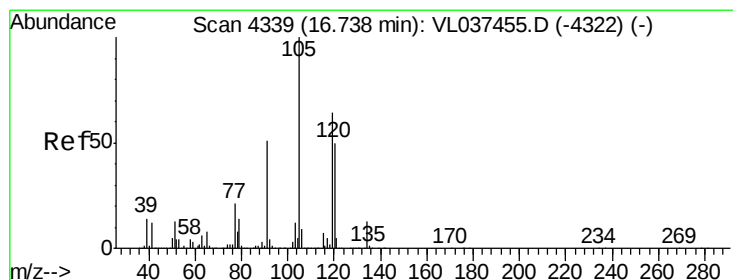
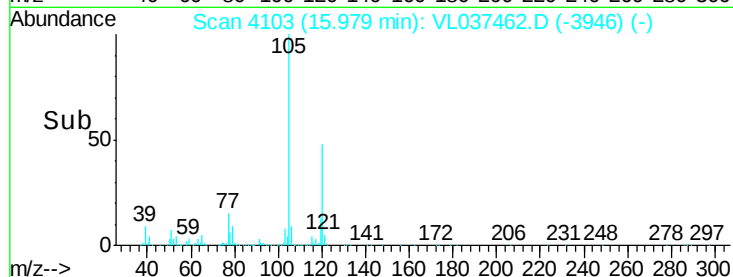
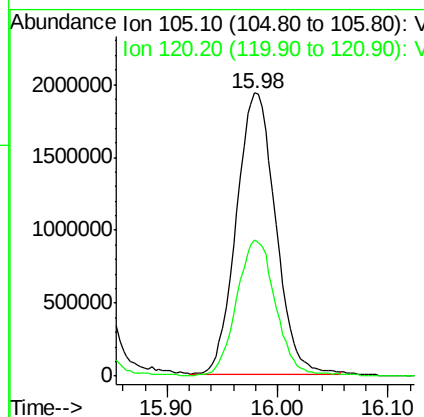
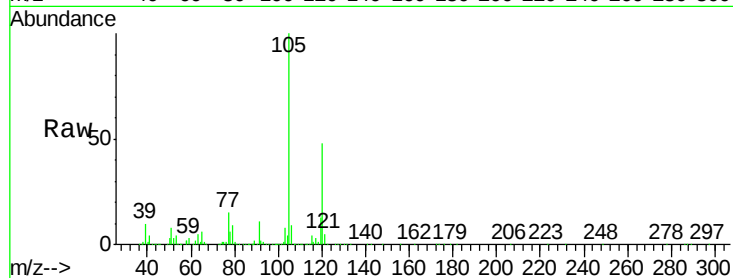
#73  
 1,3,5-Trimethylbenzene  
 Concen: 9.089 ppbv  
 RT: 15.98 min Scan# 4103  
 Delta R.T. 0.01 min  
 Lab File: VL037462.D  
 Acq: 16 Aug 2021 15:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081621

Tot Ion:105 Resp: 4731090  
 Ion Ratio Lower Upper  
 105 100  
 120 48.3 37.6 56.4

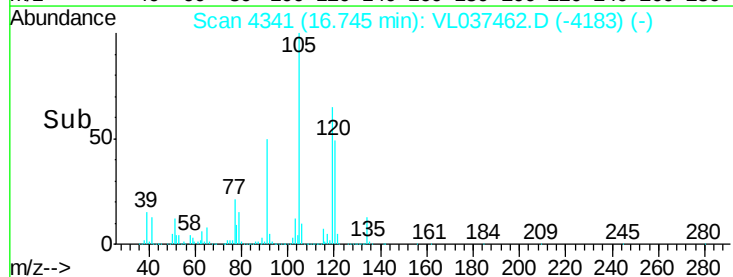
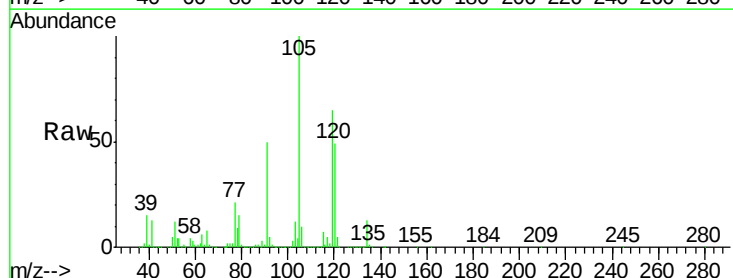
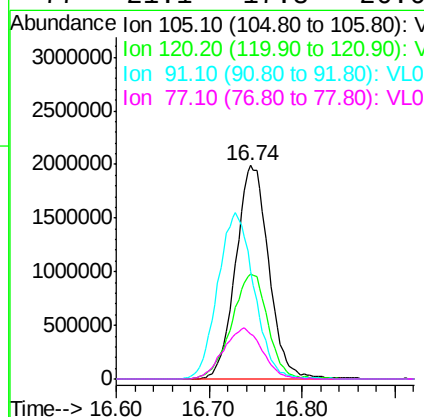
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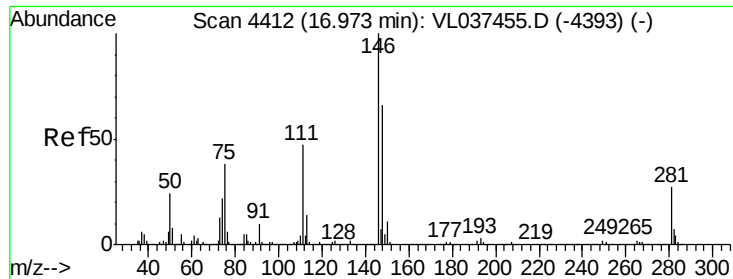
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#74  
 1,2,4-Trimethylbenzene  
 Concen: 8.863 ppbv  
 RT: 16.74 min Scan# 4341  
 Delta R.T. 0.01 min  
 Lab File: VL037462.D  
 Acq: 16 Aug 2021 15:12

Tgt Ion:105 Resp: 4902514  
 Ion Ratio Lower Upper  
 105 100  
 120 49.1 40.4 60.6  
 91 50.0 44.6 67.0  
 77 21.1 17.8 26.6





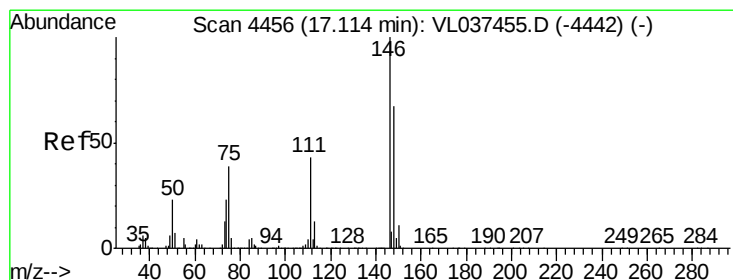
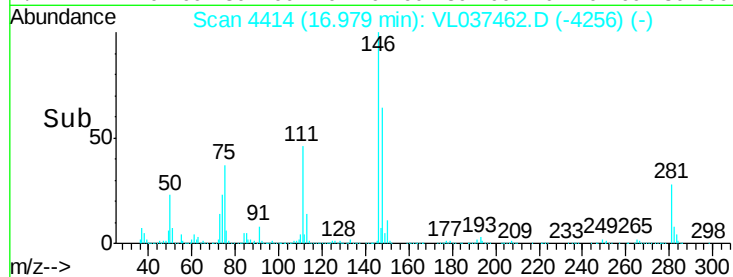
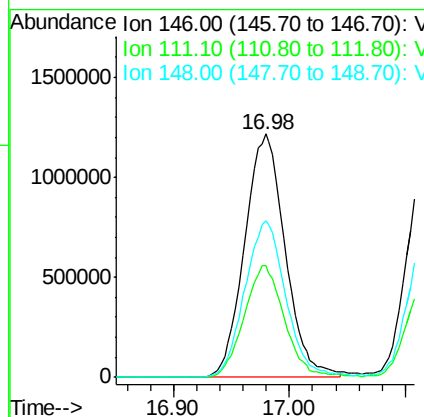
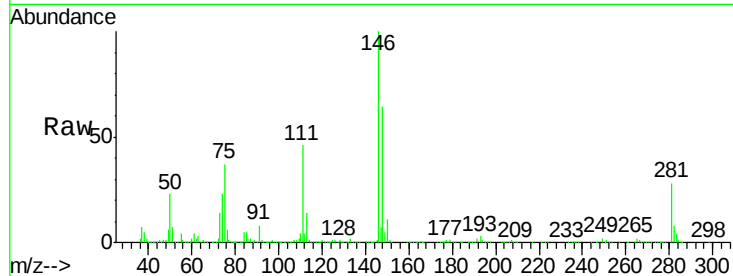
#75  
 1,3-Dichlorobenzene  
 Concen: 8.904 ppbv  
 RT: 16.98 min Scan# 4414  
 Delta R.T. 0.01 min  
 Lab File: VL037462.D  
 Acq: 16 Aug 2021 15:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081621

Tot Ion:146 Resp: 2964641  
 Ion Ratio Lower Upper  
 146 100  
 111 45.7 23.4 70.0  
 148 64.8 33.1 99.5

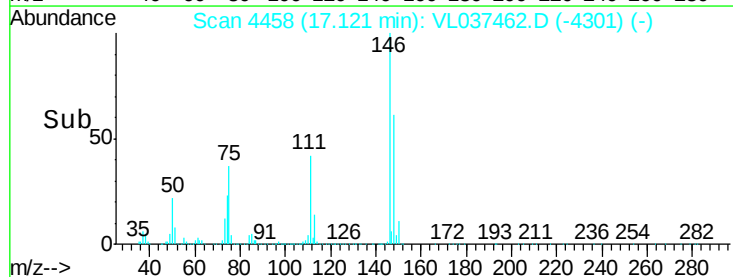
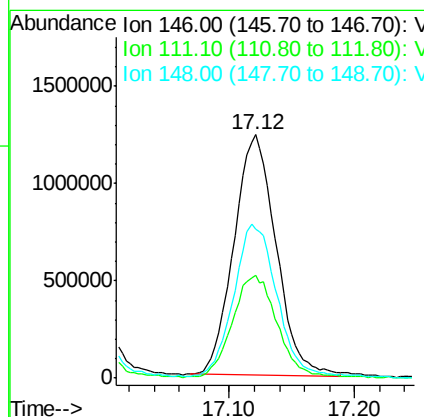
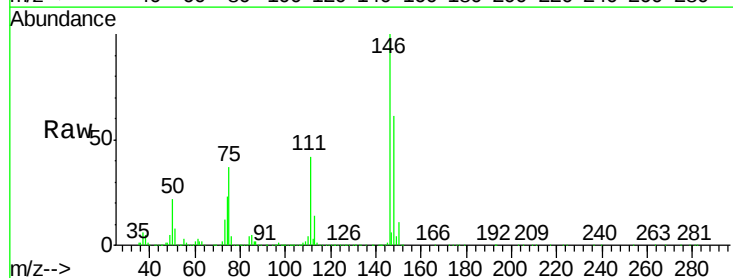
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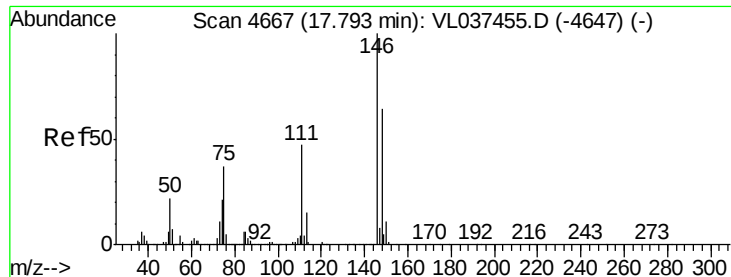
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#76  
 1,4-Dichlorobenzene  
 Concen: 8.620 ppbv  
 RT: 17.12 min Scan# 4458  
 Delta R.T. 0.01 min  
 Lab File: VL037462.D  
 Acq: 16 Aug 2021 15:12

Tgt Ion:146 Resp: 2891465  
 Ion Ratio Lower Upper  
 146 100  
 111 45.7 22.1 66.5  
 148 66.7 32.4 97.0





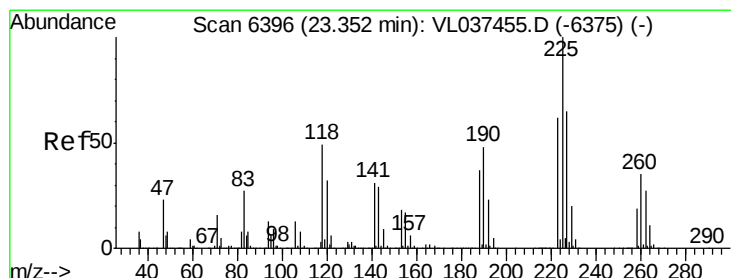
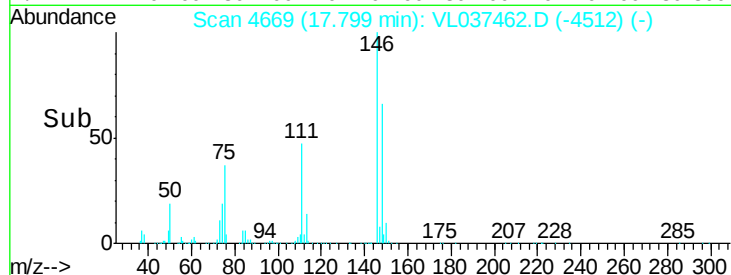
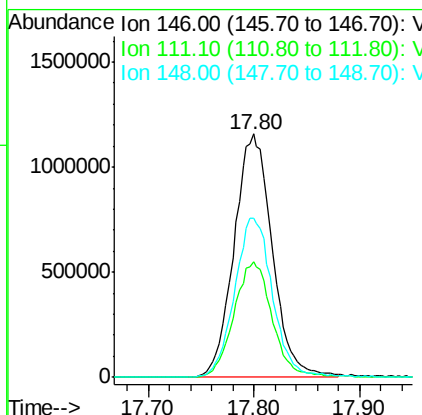
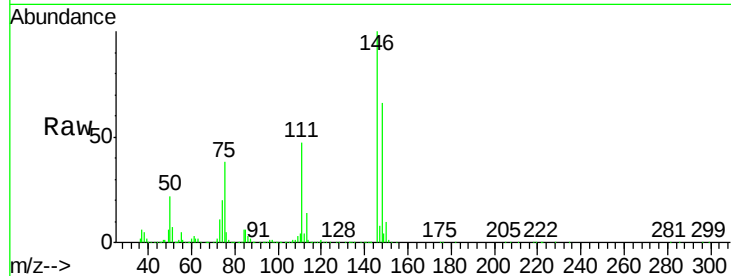
#77  
 1,2-Dichlorobenzene  
 Concen: 8.838 ppbv  
 RT: 17.80 min Scan# 4669  
 Delta R.T. 0.01 min  
 Lab File: VL037462.D  
 Acq: 16 Aug 2021 15:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081621

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 47.4  | 23.4  | 70.3  |
| 148     | 65.6  | 32.5  | 97.5  |

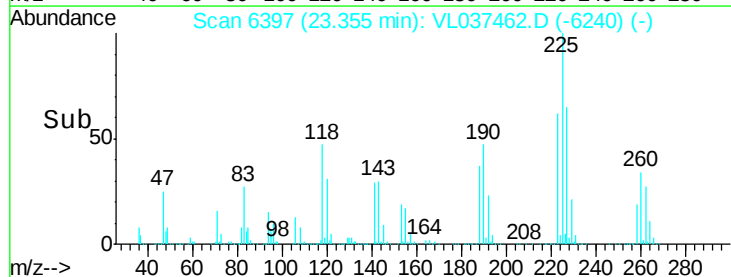
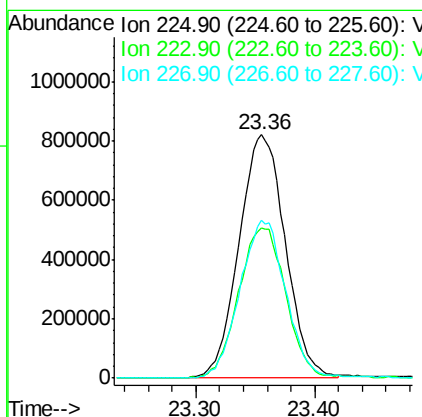
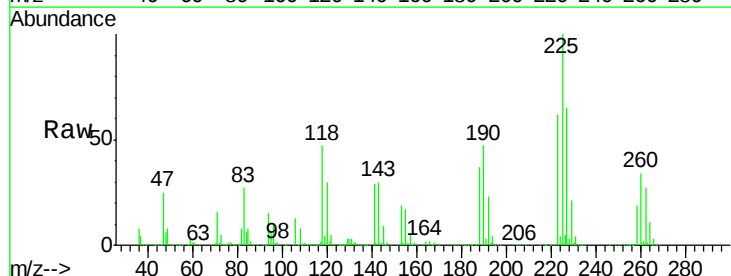
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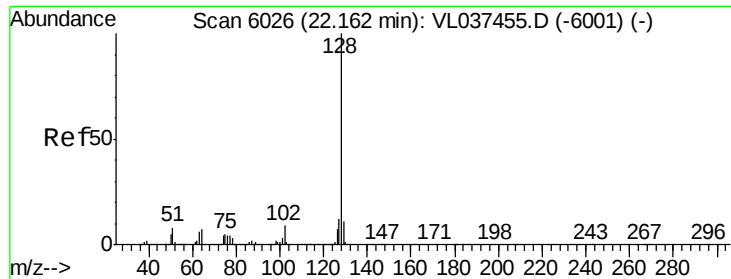
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#78  
 Hexachloro-1,3-Butadiene  
 Concen: 8.065 ppbv  
 RT: 23.36 min Scan# 6397  
 Delta R.T. 0.00 min  
 Lab File: VL037462.D  
 Acq: 16 Aug 2021 15:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 63.2  | 51.4  | 77.0  |
| 227     | 64.6  | 52.9  | 79.3  |





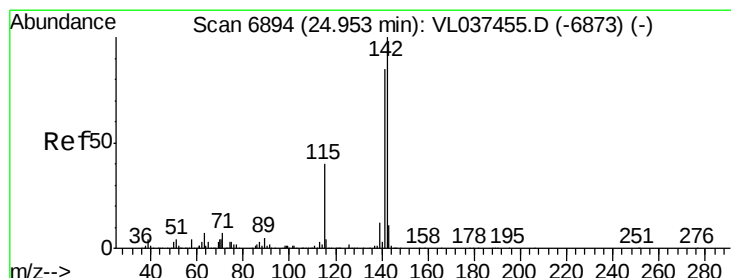
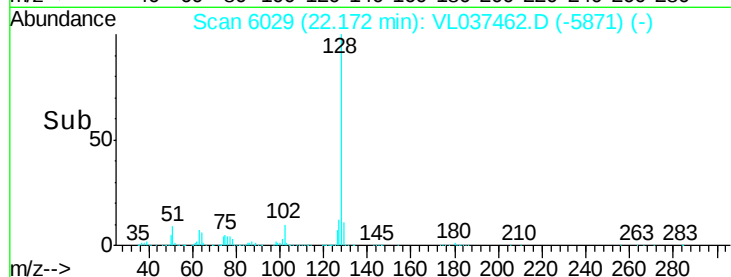
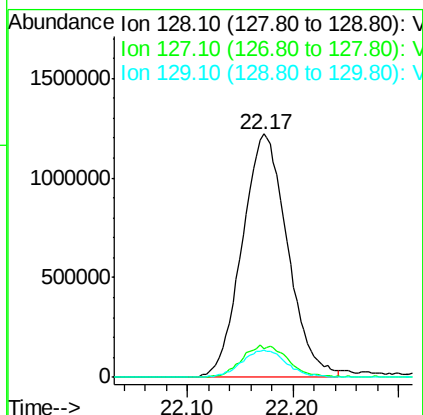
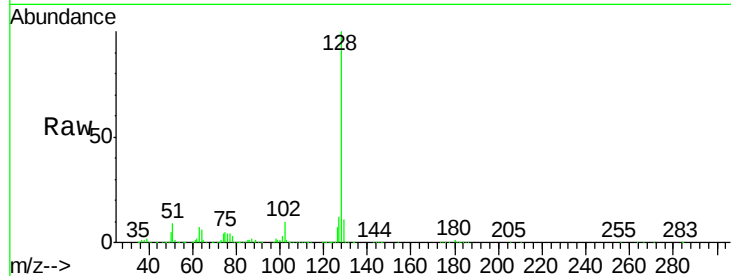
#79  
Naphthalene  
Concen: 9.852 ppbv  
RT: 22.17 min Scan# 6029  
Delta R.T. 0.01 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081621

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 11.8  | 9.4   | 14.2  |
| 129     | 11.3  | 8.8   | 13.2  |

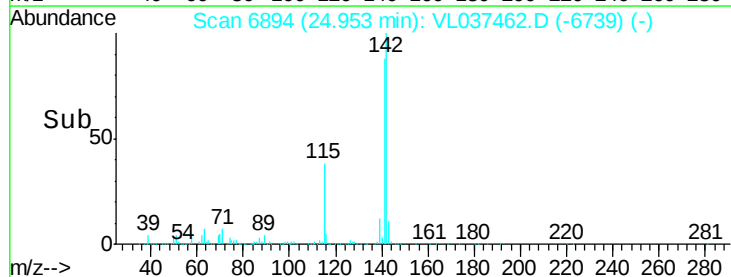
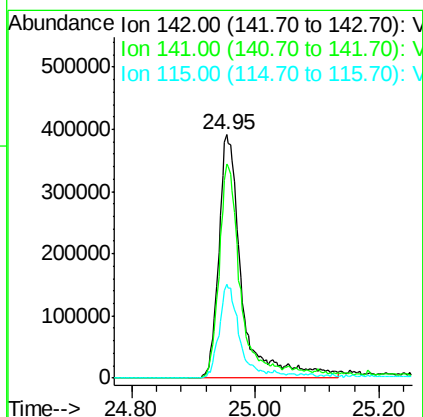
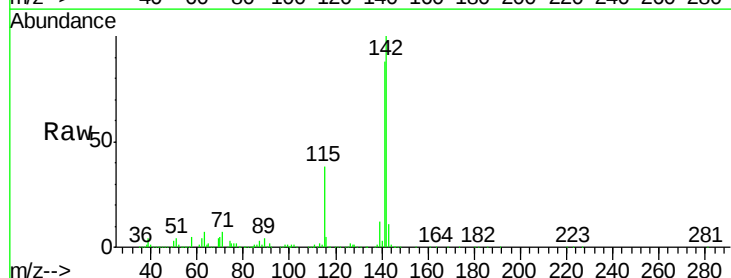
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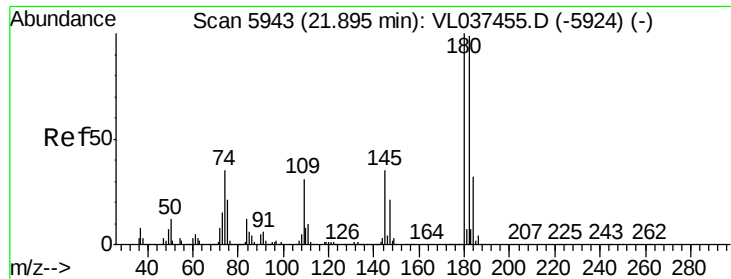
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#80  
Naphthalene, 2-methyl-  
Concen: 9.842 ppbv  
RT: 24.95 min Scan# 6894  
Delta R.T. -0.00 min  
Lab File: VL037462.D  
Acq: 16 Aug 2021 15:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 87.2  | 64.7  | 97.1  |
| 115     | 36.2  | 28.4  | 42.6  |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 9.652 ppbv  
 RT: 21.90 min Scan# 5945  
 Delta R.T. 0.01 min  
 Lab File: VL037462.D  
 Acq: 16 Aug 2021 15:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081621

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.7  | 79.6  | 119.4 |
| 184     | 31.5  | 25.4  | 38.2  |

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