

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL051623\  
 Data File : VL040453.D  
 Acq On : 17 May 2023 1:17  
 Operator : SY/MD  
 Sample : VSTDC0010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDC0010EC

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/17/2023  
 Supervised By : Mahesh Dadoda 05/17/2023

Quant Time: May 17 05:19:59 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL051623AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Wed May 17 05:12:40 2023

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.211  | 49   | 1050296  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.677  | 114  | 2658641  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.497 | 117  | 2581687  | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.806 95 2014944 9.706 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.100%

Target Compounds

|                               |       |     |         |        |        | Qvalue |
|-------------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.739 | 85  | 2153813 | 10.439 | ppbv   | 100    |
| 3) Chlorodifluoromethane      | 2.681 | 51  | 1307645 | 9.640  | ppbv   | 100    |
| 4) Chloromethane              | 2.822 | 50  | 833825  | 9.897  | ppbv   | 98     |
| 5) Vinyl Chloride             | 2.928 | 62  | 706879  | 9.453  | ppbv   | 100    |
| 6) Bromomethane               | 3.131 | 94  | 223212  | 9.819  | ppbv   | 98     |
| 7) Chloroethane               | 3.208 | 64  | 270556  | 10.239 | ppbv   | 100    |
| 8) Dichlorotetrafluoroethane  | 2.864 | 85  | 1763741 | 9.514  | ppbv   | 97     |
| 9) Propene                    | 2.700 | 41  | 539270  | 10.220 | ppbv   | 99     |
| 10) Heptane                   | 7.603 | 43  | 1320772 | 10.831 | ppbv   | 100    |
| 11) Trichlorofluoromethane    | 3.575 | 101 | 1790763 | 9.612  | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluo... | 4.079 | 101 | 1291780 | 9.456  | ppbv   | 100    |
| 13) Ethanol                   | 3.253 | 45  | 37324m  | 9.333  | ppbv   |        |
| 14) Bromoethene               | 3.378 | 108 | 552740  | 10.150 | ppbv   | 97     |
| 15) Acetone                   | 3.478 | 43  | 1248261 | 9.394  | ppbv   | 99     |
| 16) 1,3-Butadiene             | 2.993 | 39  | 623129  | 10.217 | ppbv   | 100    |
| 17) tert-Butyl alcohol        | 3.890 | 59  | 1292429 | 9.711  | ppbv   | 100    |
| 18) 1,1-Dichloroethene        | 3.893 | 96  | 590097  | 9.800  | ppbv   | 97     |
| 19) Isopropyl Alcohol         | 3.587 | 45  | 617758  | 9.545  | ppbv   | 99     |
| 20) Methylene Chloride        | 3.948 | 84  | 496126  | 8.382  | ppbv   | 97     |
| 21) Allyl Chloride            | 4.012 | 41  | 853427  | 10.046 | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene  | 4.462 | 96  | 602077  | 10.011 | ppbv   | 99     |
| 23) Vinyl Acetate             | 4.642 | 43  | 372425m | 10.142 | ppbv   |        |
| 24) 1,1-Dichloroethane        | 4.578 | 63  | 1230803 | 9.795  | ppbv   | 99     |
| 25) Ethyl Acetate             | 5.221 | 43  | 2501872 | 9.998  | ppbv   | 100    |
| 26) Hexane                    | 5.230 | 57  | 1044420 | 10.069 | ppbv   | 100    |
| 27) Carbon Disulfide          | 4.137 | 76  | 1450089 | 10.636 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether   | 4.603 | 73  | 1103396 | 10.013 | ppbv   | 100    |
| 29) Chloroform                | 5.295 | 83  | 1820945 | 9.628  | ppbv   | 98     |
| 30) Cyclohexane               | 6.623 | 84  | 888801  | 10.533 | ppbv   | 98     |
| 31) cis-1,2-Dichloroethene    | 5.099 | 61  | 1107379 | 10.779 | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane     | 6.025 | 97  | 1846167 | 9.395  | ppbv   | 99     |
| 34) 2-Butanone                | 4.803 | 43  | 1463351 | 10.339 | ppbv   | 98     |
| 35) Carbon Tetrachloride      | 6.517 | 117 | 1869688 | 9.798  | ppbv   | 98     |
| 36) Benzene                   | 6.391 | 78  | 2235419 | 10.353 | ppbv   | 99     |
| 37) 1,2-Dichloroethane        | 5.828 | 62  | 1425332 | 10.102 | ppbv   | 99     |
| 38) Trichloroethene           | 7.317 | 130 | 1355477 | 10.189 | ppbv   | 99     |
| 39) 1,2-Dichloropropane       | 7.099 | 63  | 852520  | 10.079 | ppbv   | 96     |
| 40) 1,4-Dioxane               | 7.314 | 88  | 331551  | 10.305 | ppbv # | 1      |
| 41) Tetrahydrofuran           | 5.574 | 42  | 851539  | 10.842 | ppbv   | 99     |
| 42) Bromodichloromethane      | 7.275 | 83  | 2001456 | 10.480 | ppbv   | 98     |
| 43) Methyl Methacrylate       | 7.497 | 69  | 894197  | 11.194 | ppbv   | 99     |
| 44) 2,2,4-Trimethylpentane    | 7.353 | 57  | 3686457 | 10.317 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 8.735 | 75  | 867098  | 12.391 | ppbv   | 99     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL051623\  
 Data File : VL040453.D  
 Acq On : 17 May 2023 1:17  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/17/2023  
 Supervised By : Mahesh Dadoda 05/17/2023

Quant Time: May 17 05:19:59 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL051623AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2023

QLast Update : Wed May 17 05:12:40 2023

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.169  | 75   | 1161530  | 11.746 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 8.925  | 97   | 951159   | 10.303 | ppbv   | 98       |
| 48) Dibromochloromethane      | 9.738  | 129  | 1609844  | 10.917 | ppbv   | 99       |
| 49) Bromoform                 | 12.436 | 173  | 1289472  | 11.084 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.208  | 43   | 2317635  | 10.600 | ppbv   | 100      |
| 51) 2-Hexanone                | 9.578  | 43   | 1794813  | 11.144 | ppbv # | 100      |
| 52) Tetrachloroethene         | 10.645 | 164  | 754762   | 10.293 | ppbv   | 97       |
| 53) Toluene                   | 9.250  | 91   | 2552778  | 11.193 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.037 | 107  | 1025635  | 11.117 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 11.539 | 131  | 1151671  | 9.632  | ppbv   | 98       |
| 57) Chlorobenzene             | 11.555 | 112  | 1967576  | 9.466  | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.118 | 91   | 3483160  | 10.661 | ppbv   | 98       |
| 59) m/p-Xylene                | 12.401 | 91   | 6068512m | 20.364 | ppbv   |          |
| 60) o-Xylene                  | 13.085 | 91   | 2915028  | 10.278 | ppbv   | 99       |
| 61) Styrene                   | 12.928 | 104  | 1685517  | 11.733 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.060 | 105  | 4084381  | 9.853  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.076 | 83   | 885975   | 8.660  | ppbv   | 100      |
| 64) n-propylbenzene           | 14.947 | 120  | 1046914  | 10.236 | ppbv   | 100      |
| 65) tert-Butylbenzene         | 16.121 | 119  | 3568122  | 9.814  | ppbv   | 100      |
| 66) Benzyl Chloride           | 16.359 | 91   | 221584   | 10.272 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 16.664 | 105  | 5096493  | 9.734  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.024 | 119  | 4086552  | 9.936  | ppbv   | 100      |
| 70) n-Butylbenzene            | 17.915 | 91   | 4469154  | 9.750  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 14.831 | 91   | 3181379  | 10.087 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.220 | 105  | 3368446  | 10.474 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.381 | 105  | 2974746  | 10.076 | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 16.140 | 105  | 3258781  | 9.594  | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 16.362 | 146  | 1798170  | 9.622  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 16.500 | 146  | 1757044  | 9.721  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.172 | 146  | 1728535  | 9.547  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 22.667 | 225  | 1192012  | 8.799  | ppbv   | 99       |
| 79) Naphthalene               | 21.416 | 128  | 2465927  | 12.008 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.397 | 142  | 776418   | 13.204 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.172 | 180  | 1299078  | 10.219 | ppbv   | 100      |

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

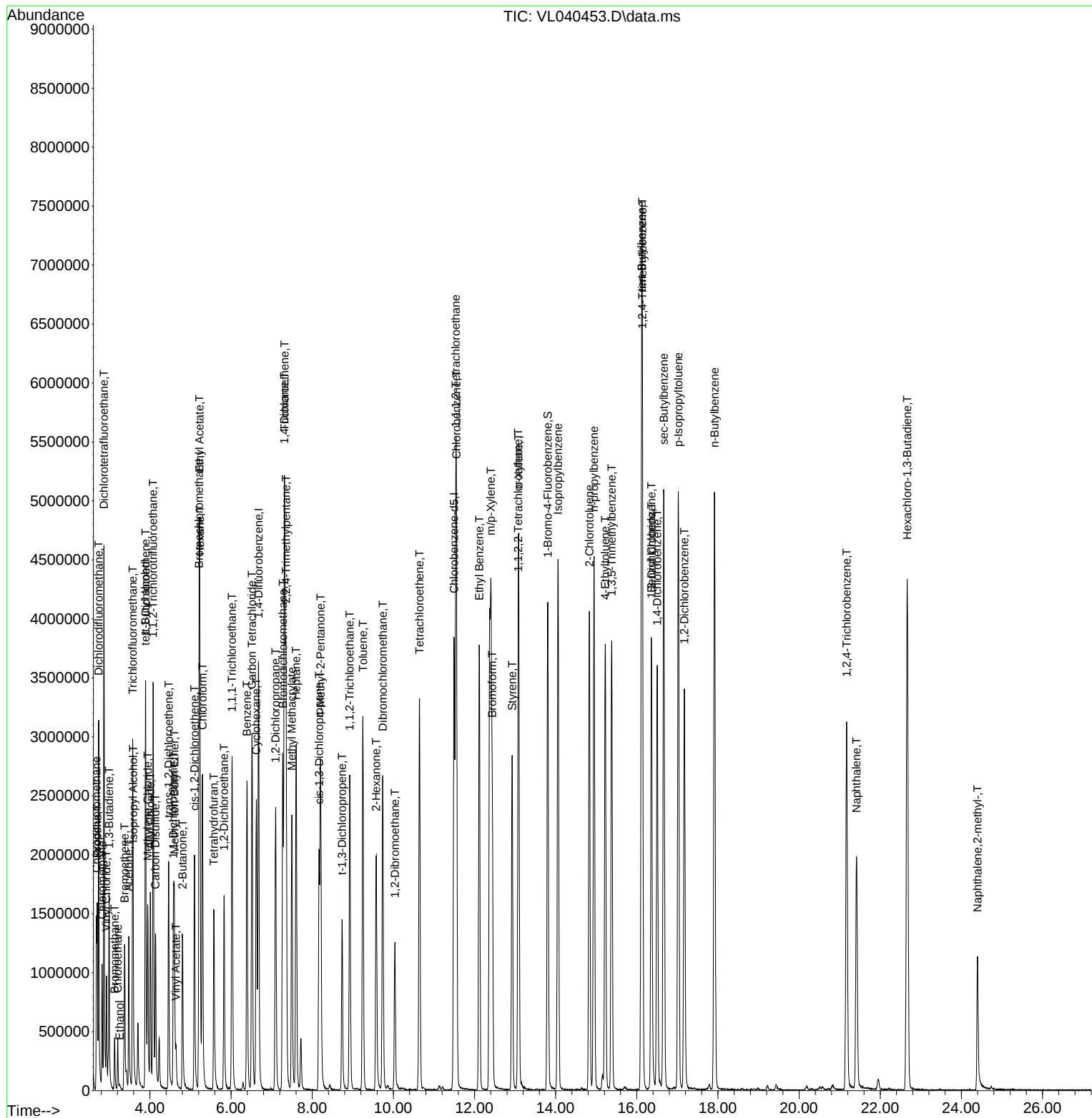
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL051623\  
Data File : VL040453.D  
Acq On : 17 May 2023 1:17  
Operator : SY/MD  
Sample : VSTDCCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

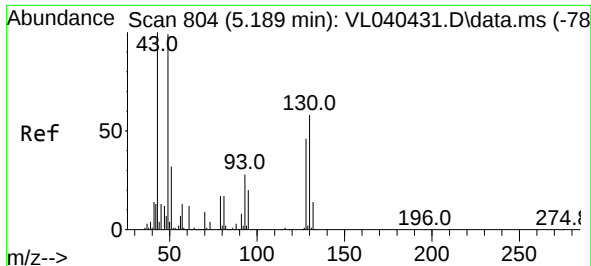
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023

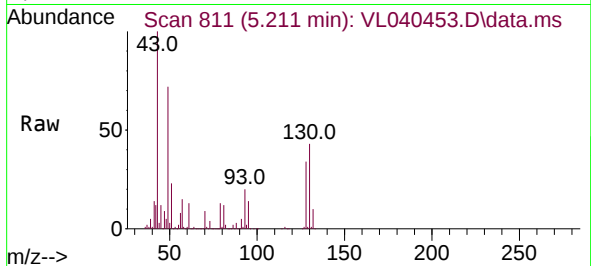
Quant Time: May 17 05:19:59 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL051623AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Wed May 17 05:12:40 2023  
Response via : Initial Calibration





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.211 min Scan# 81  
Delta R.T. 0.006 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

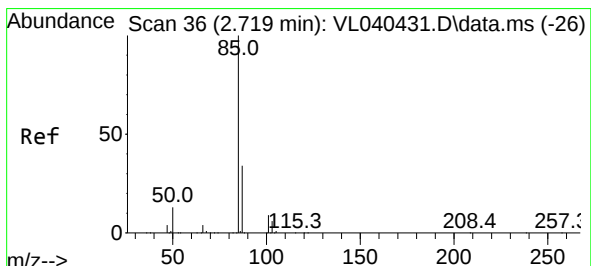
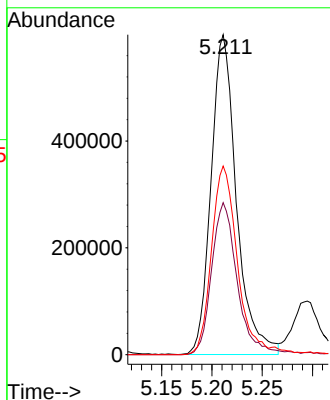
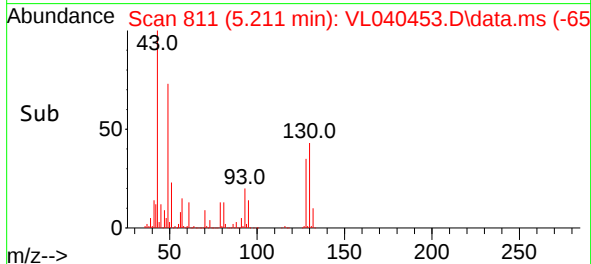
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC



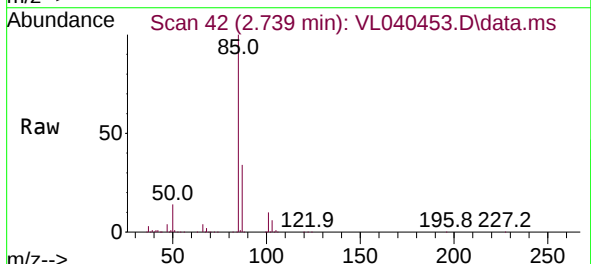
Tgt Ion: 49 Resp: 1050290  
Ion Ratio Lower Upper  
49 100  
128 48.9 24.3 72.8  
130 61.6 30.2 90.6

Manual Integrations  
APPROVED

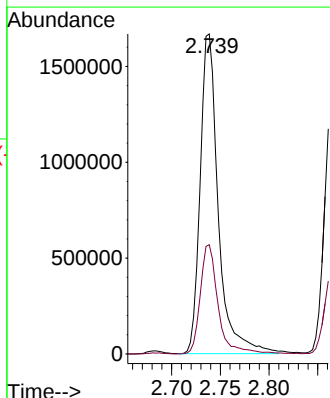
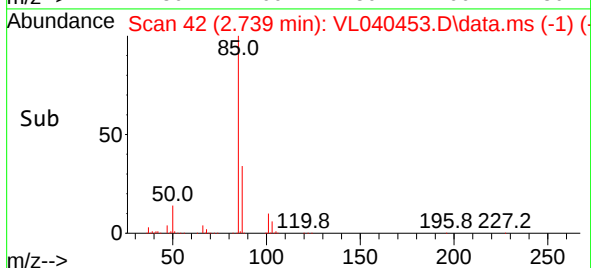
Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023

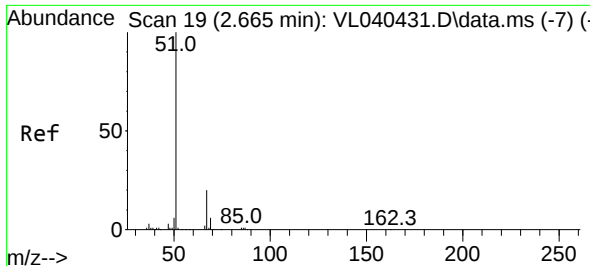


#2  
Dichlorodifluoromethane  
Concen: 10.439 ppbv  
RT: 2.739 min Scan# 42  
Delta R.T. 0.010 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17



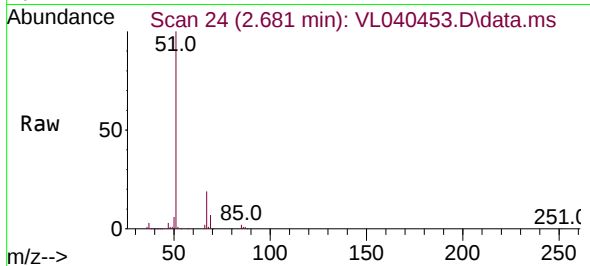
Tgt Ion: 85 Resp: 2153813  
Ion Ratio Lower Upper  
85 100  
87 34.2 27.4 41.0





#3  
Chlorodifluoromethane  
Concen: 9.640 ppbv  
RT: 2.681 min Scan# 24  
Delta R.T. 0.007 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

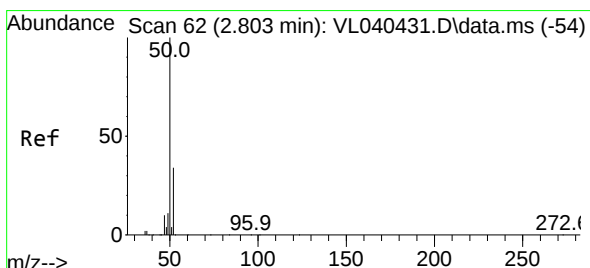
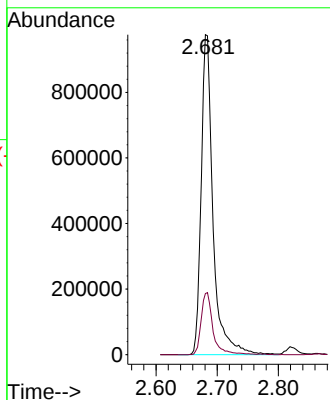
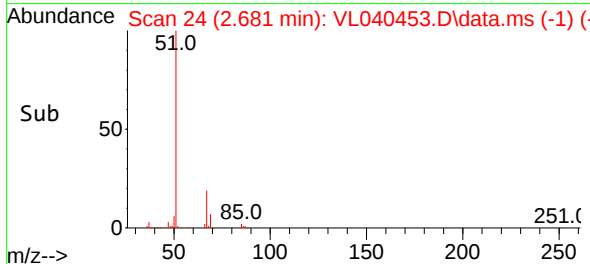
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC



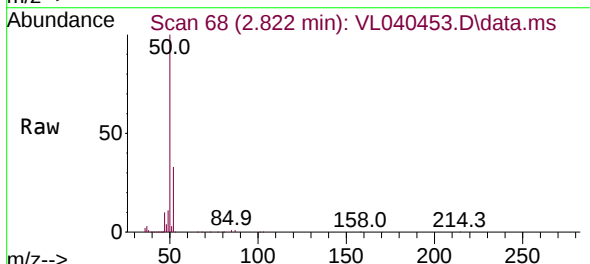
Tgt Ion: 51 Resp: 130764  
Ion Ratio Lower Upper  
51 100  
67 19.6 15.8 23.6

Manual Integrations  
APPROVED

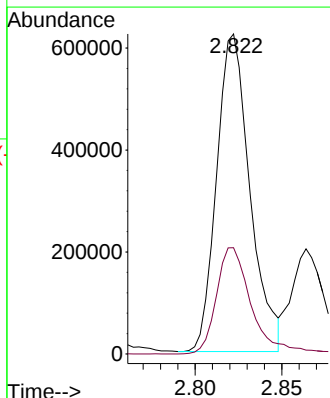
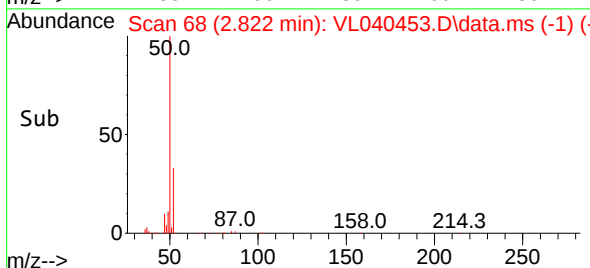
Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023

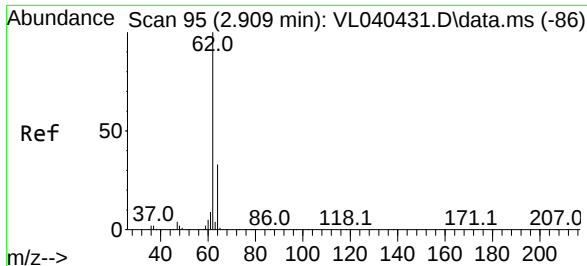


#4  
Chloromethane  
Concen: 9.897 ppbv  
RT: 2.822 min Scan# 68  
Delta R.T. 0.010 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17



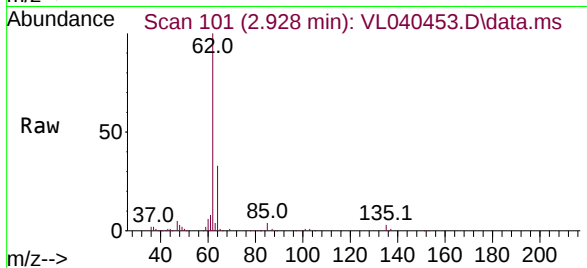
Tgt Ion: 50 Resp: 833825  
Ion Ratio Lower Upper  
50 100  
52 33.4 27.6 41.4





#5  
 Vinyl Chloride  
 Concen: 9.453 ppbv  
 RT: 2.928 min Scan# 101  
 Delta R.T. 0.007 min  
 Lab File: VL040453.D  
 Acq: 17 May 2023 1:17

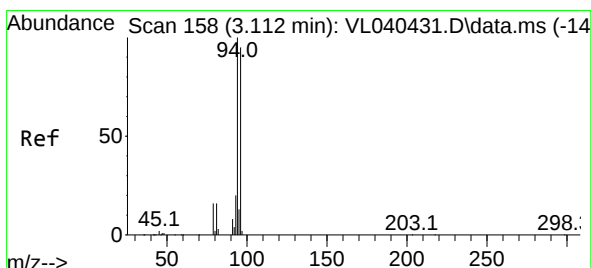
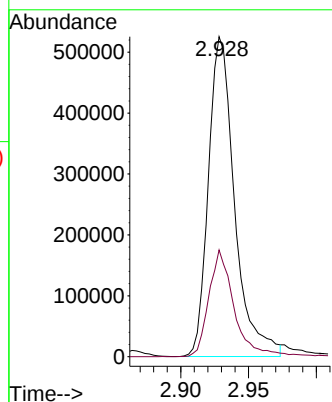
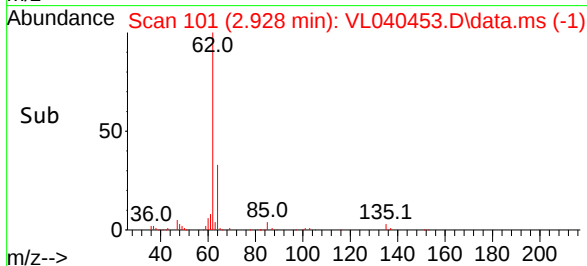
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC



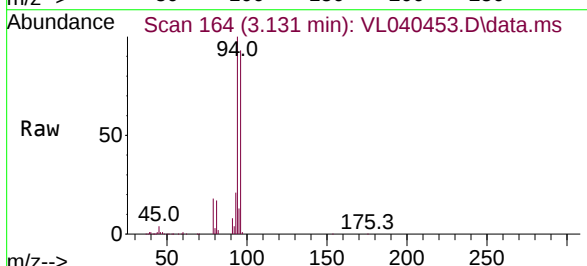
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 Ion Ratio Lower Upper  
 62 100  
 64 33.4 26.6 40.0

Manual Integrations  
 APPROVED

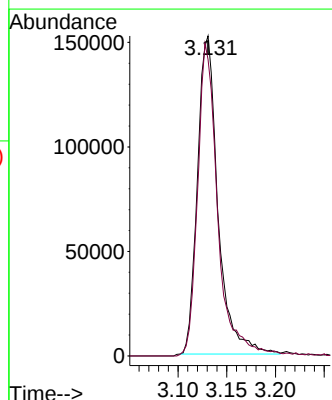
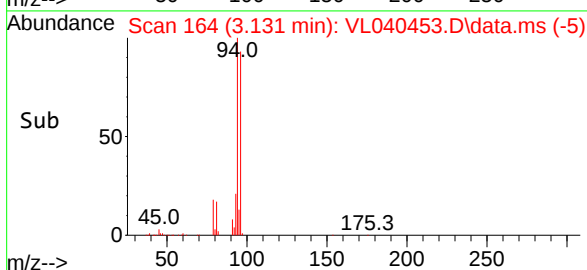
Reviewed By :Semsettin Yesilyurt 05/17/2023  
 Supervised By :Mahesh Dadoda 05/17/2023

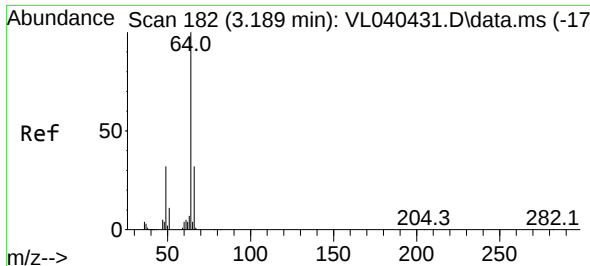


#6  
 Bromomethane  
 Concen: 9.819 ppbv  
 RT: 3.131 min Scan# 164  
 Delta R.T. 0.010 min  
 Lab File: VL040453.D  
 Acq: 17 May 2023 1:17



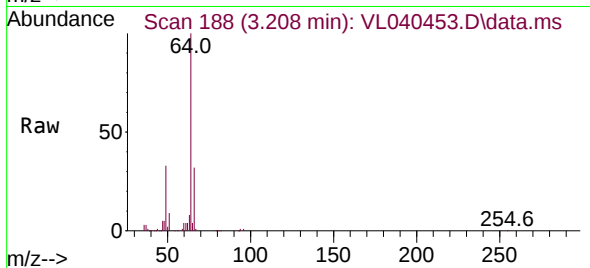
Tgt Ion: 94 Resp: 223212  
 Ion Ratio Lower Upper  
 94 100  
 96 92.8 75.7 113.5





#7  
Chloroethane  
Concen: 10.239 ppbv  
RT: 3.208 min Scan# 11  
Delta R.T. 0.010 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

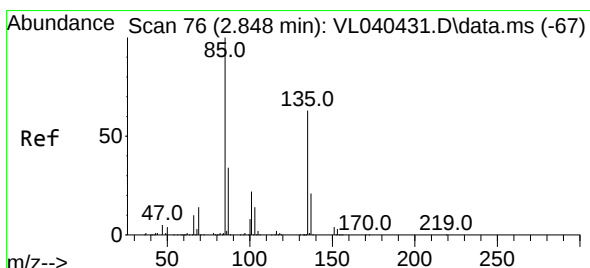
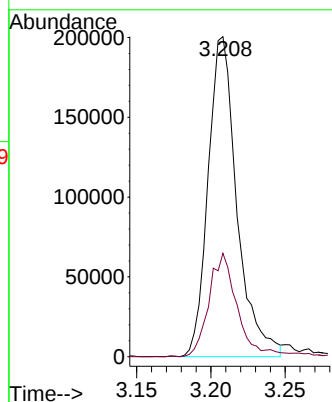
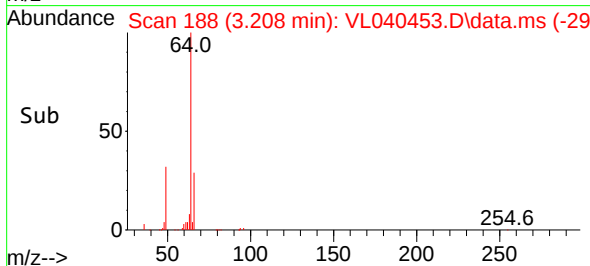
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC



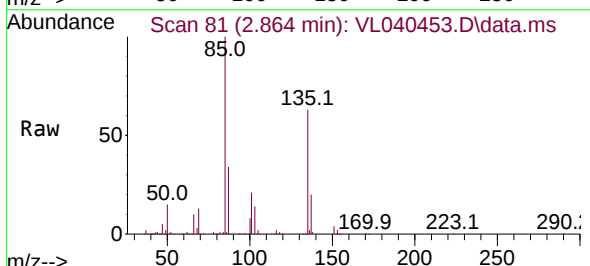
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Ion Ratio Lower Upper  
64 100  
66 32.3 25.8 38.8

Manual Integrations  
APPROVED

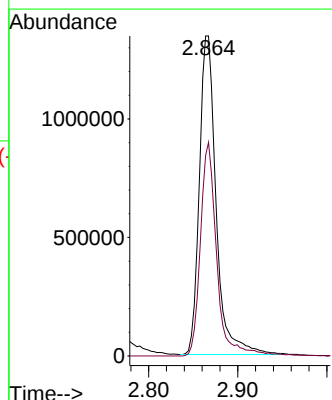
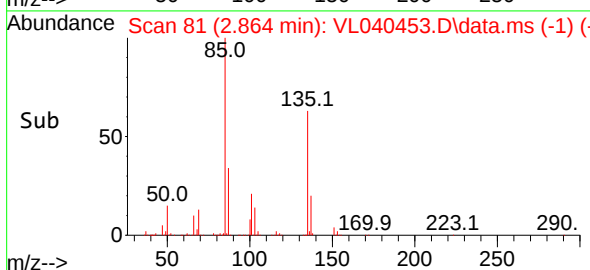
Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023

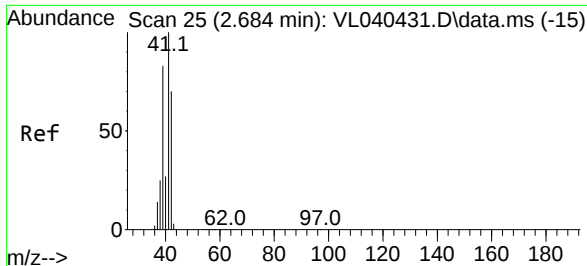


#8  
Dichlorotetrafluoroethane  
Concen: 9.514 ppbv  
RT: 2.864 min Scan# 81  
Delta R.T. 0.007 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17



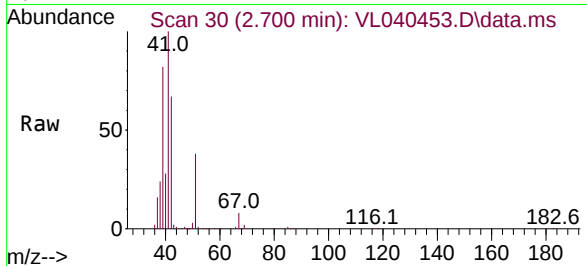
Tgt Ion: 85 Resp: 1763741  
Ion Ratio Lower Upper  
85 100  
135 65.3 50.6 75.8





#9  
 Propene  
 Concen: 10.220 ppbv  
 RT: 2.700 min Scan# 30  
 Delta R.T. 0.007 min  
 Lab File: VL040453.D  
 Acq: 17 May 2023 1:17

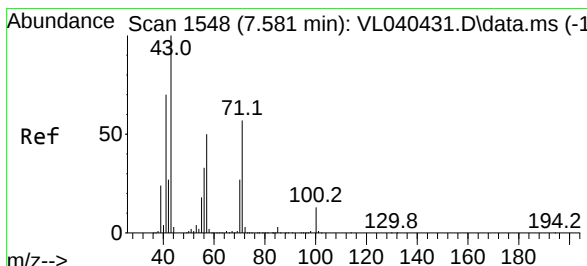
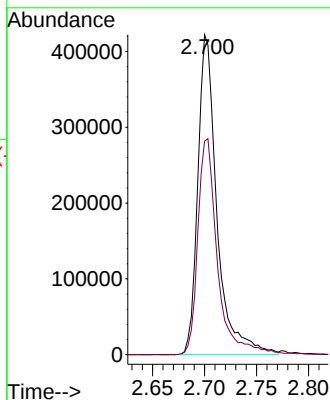
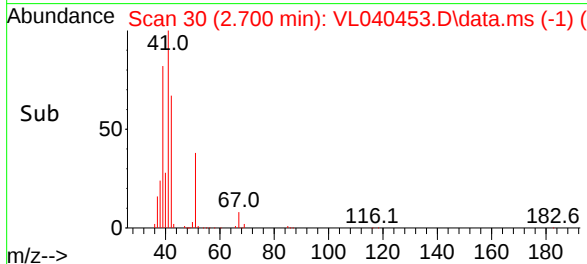
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC



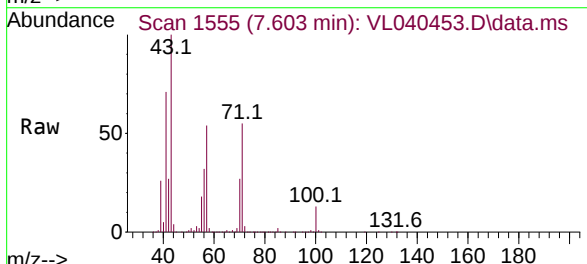
Tgt Ion: 41 Resp: 539270  
 Ion Ratio Lower Upper  
 41 100  
 42 69.8 56.6 84.8

Manual Integrations  
 APPROVED

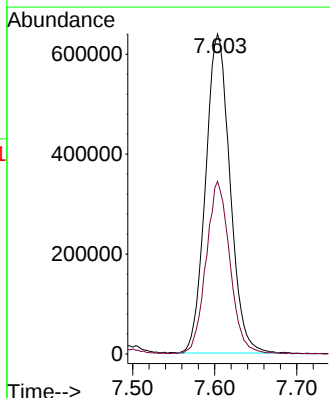
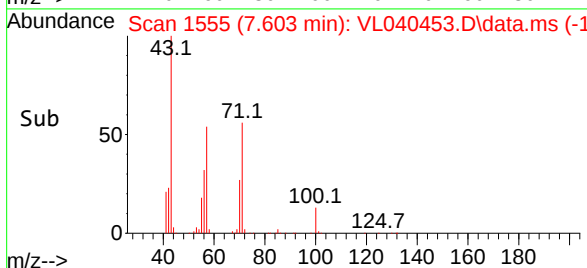
Reviewed By :Semsettin Yesilyurt 05/17/2023  
 Supervised By :Mahesh Dadoda 05/17/2023

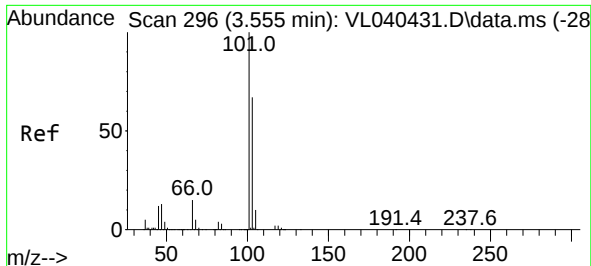


#10  
 Heptane  
 Concen: 10.831 ppbv  
 RT: 7.603 min Scan# 1555  
 Delta R.T. 0.007 min  
 Lab File: VL040453.D  
 Acq: 17 May 2023 1:17



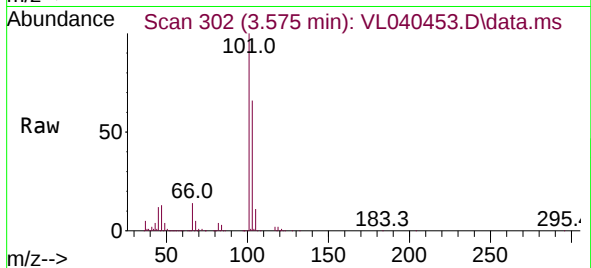
Tgt Ion: 43 Resp: 1320772  
 Ion Ratio Lower Upper  
 43 100  
 57 53.0 42.2 63.2





#11  
 Trichlorofluoromethane  
 Concen: 9.612 ppbv  
 RT: 3.575 min Scan# 302  
 Delta R.T. 0.007 min  
 Lab File: VL040453.D  
 Acq: 17 May 2023 1:17

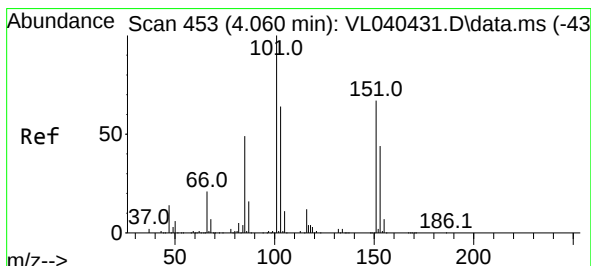
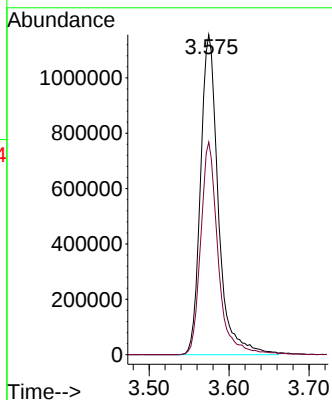
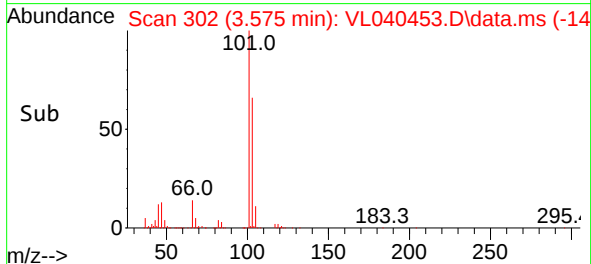
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC



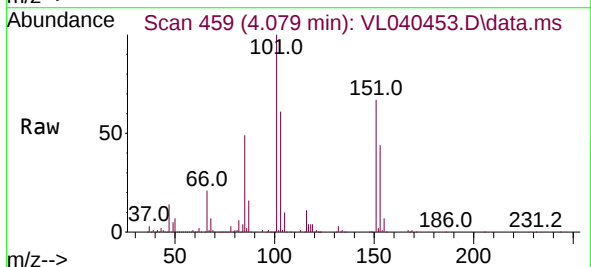
Tgt Ion:101 Resp: 179076  
 Ion Ratio Lower Upper  
 101 100  
 103 66.4 53.3 79.9

Manual Integrations  
 APPROVED

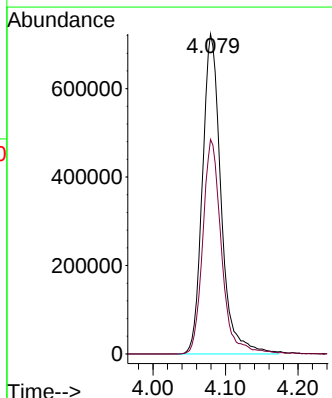
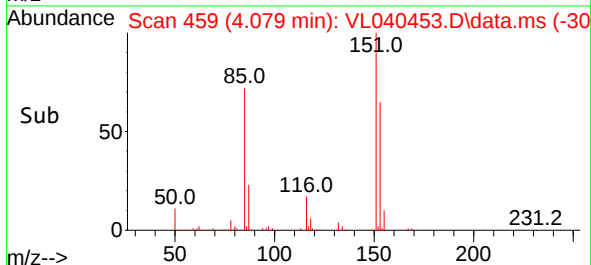
Reviewed By :Semsettin Yesilyurt 05/17/2023  
 Supervised By :Mahesh Dadoda 05/17/2023

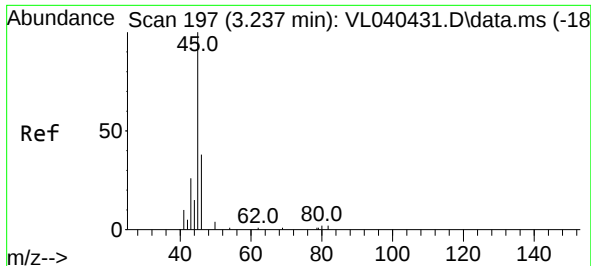


#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.456 ppbv  
 RT: 4.079 min Scan# 459  
 Delta R.T. 0.007 min  
 Lab File: VL040453.D  
 Acq: 17 May 2023 1:17



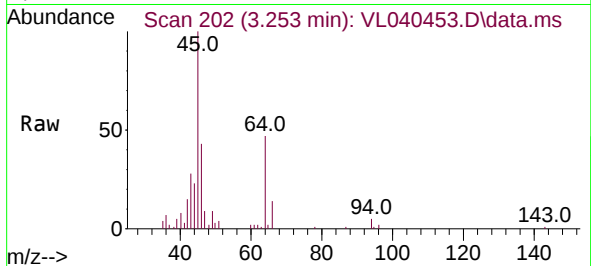
Tgt Ion:101 Resp: 1291780  
 Ion Ratio Lower Upper  
 101 100  
 151 67.5 53.8 80.6





#13  
Ethanol  
Concen: 9.333 ppbv m  
RT: 3.253 min Scan# 20  
Delta R.T. 0.003 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

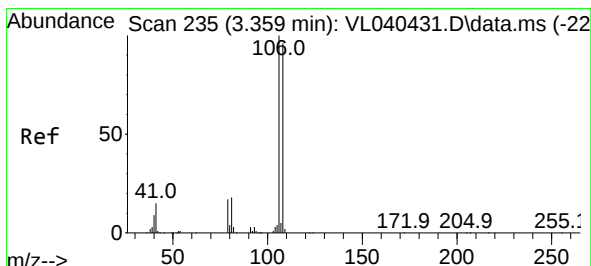
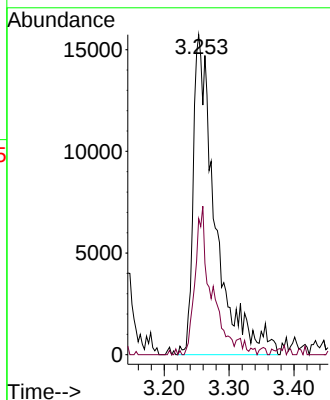
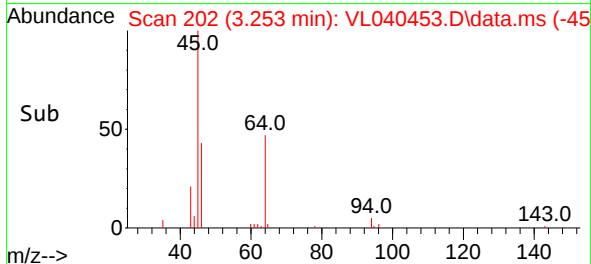
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDC0010EC



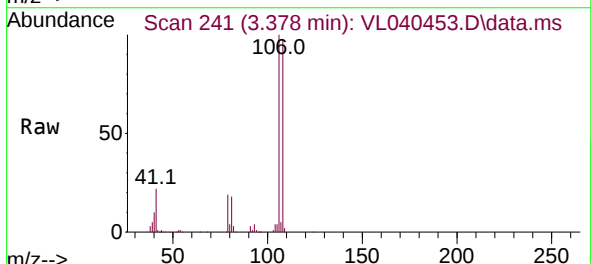
Tgt Ion: 45 Resp: 37324  
Ion Ratio Lower Upper  
45 100  
46 35.4 13.2 52.8

Manual Integrations  
APPROVED

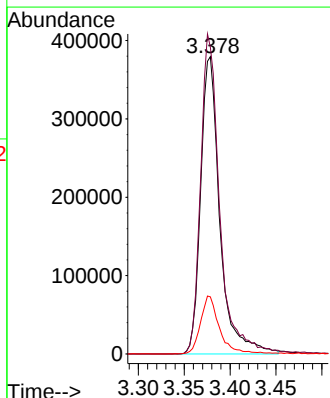
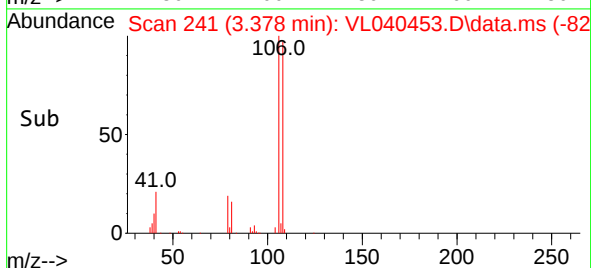
Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023

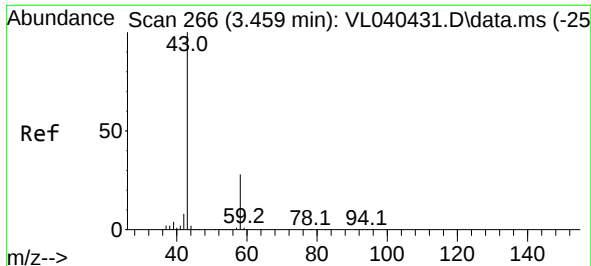


#14  
Bromoethene  
Concen: 10.150 ppbv  
RT: 3.378 min Scan# 241  
Delta R.T. 0.010 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17



Tgt Ion:108 Resp: 552740  
Ion Ratio Lower Upper  
108 100  
106 108.1 89.5 134.3  
79 19.7 16.1 24.1





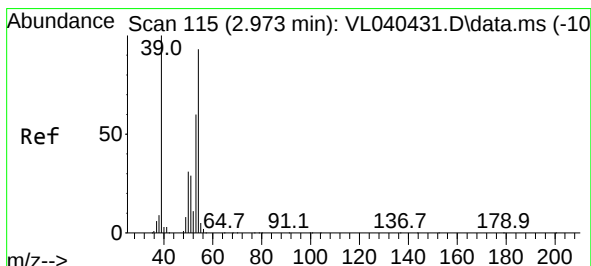
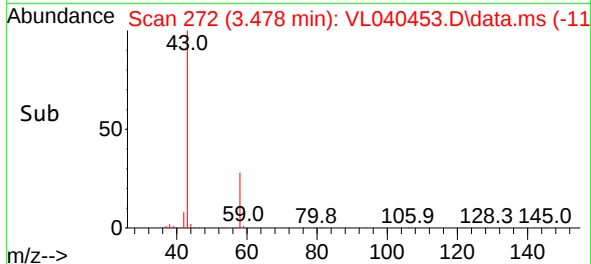
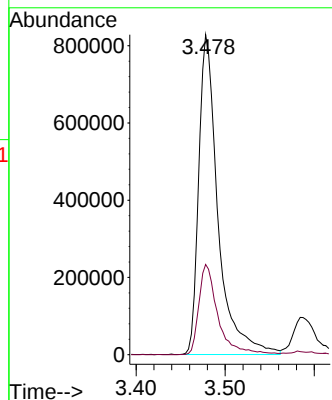
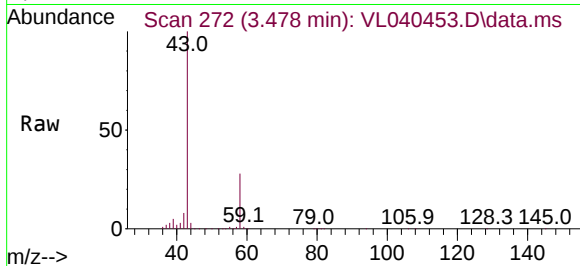
#15  
Acetone  
Concen: 9.394 ppbv  
RT: 3.478 min Scan# 21  
Delta R.T. 0.010 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tgt Ion: 43 Resp: 124826  
Ion Ratio Lower Upper  
43 100  
58 28.1 22.2 33.4

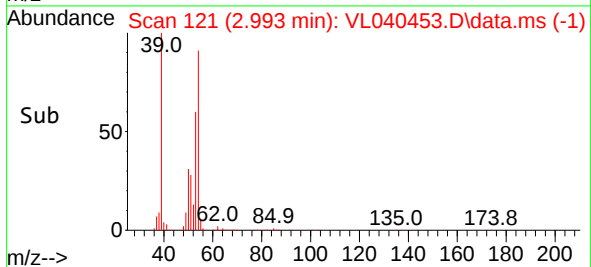
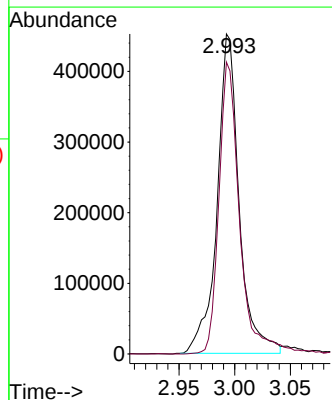
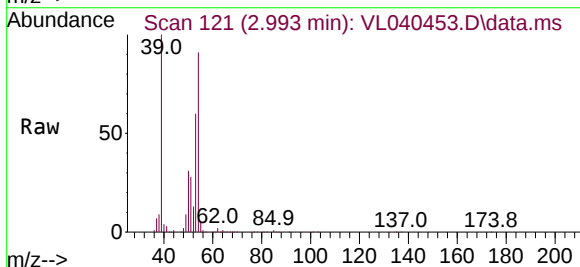
Manual Integrations  
APPROVED

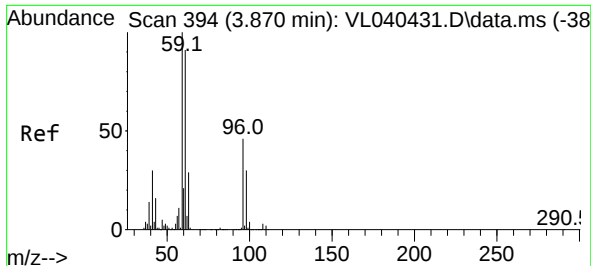
Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023



#16  
1,3-Butadiene  
Concen: 10.217 ppbv  
RT: 2.993 min Scan# 121  
Delta R.T. 0.007 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

Tgt Ion: 39 Resp: 623129  
Ion Ratio Lower Upper  
39 100  
54 86.5 68.9 103.3





#17

tert-Butyl alcohol

Concen: 9.711 ppbv

RT: 3.890 min Scan# 400

Delta R.T. 0.010 min

Lab File: VL040453.D

Acq: 17 May 2023 1:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 59 Resp: 1292429

Ion Ratio Lower Upper

59 100

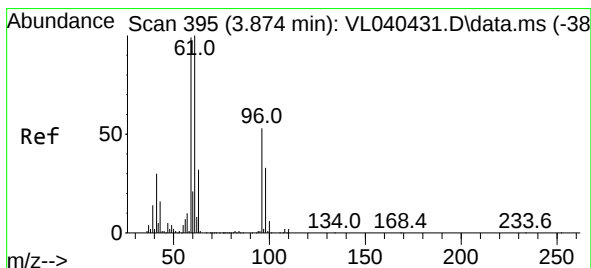
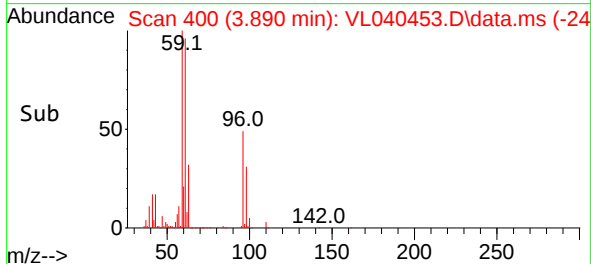
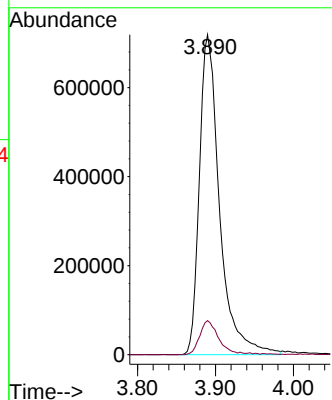
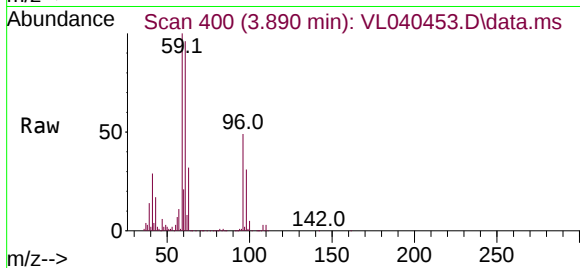
57 10.6 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/17/2023

Supervised By :Mahesh Dadoda 05/17/2023



#18

1,1-Dichloroethene

Concen: 9.800 ppbv

RT: 3.893 min Scan# 401

Delta R.T. 0.007 min

Lab File: VL040453.D

Acq: 17 May 2023 1:17

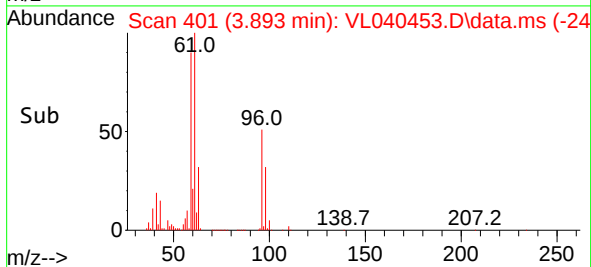
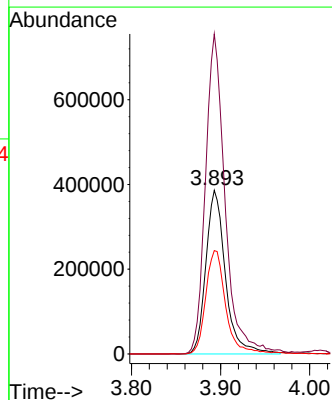
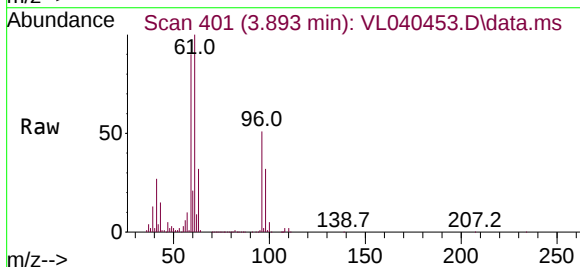
Tgt Ion: 96 Resp: 590097

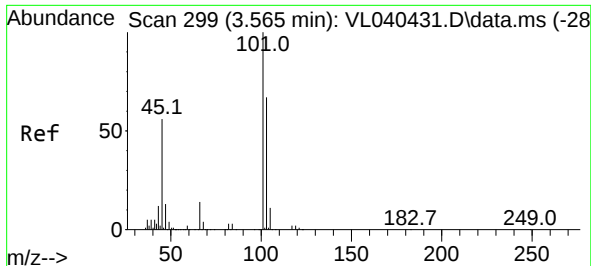
Ion Ratio Lower Upper

96 100

61 195.6 151.8 227.8

98 63.2 50.5 75.7





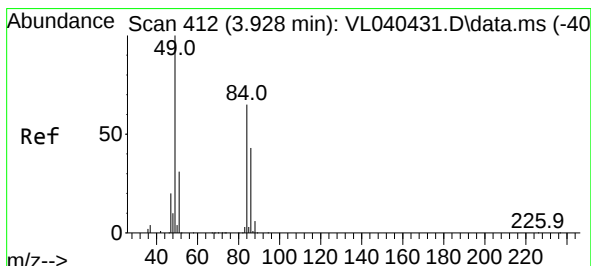
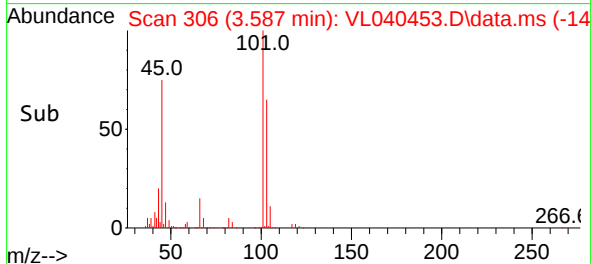
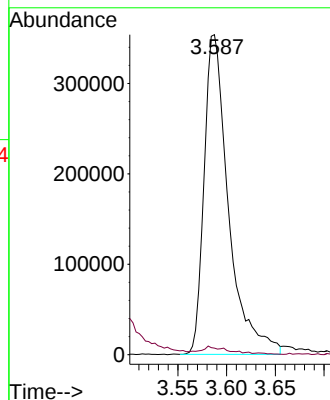
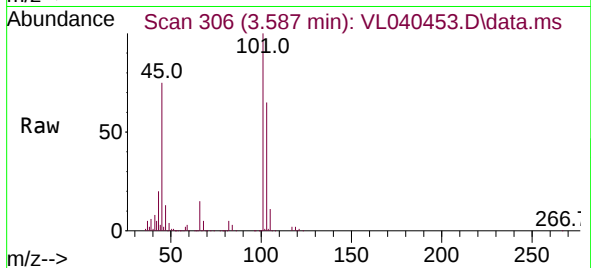
#19  
Isopropyl Alcohol  
Concen: 9.545 ppbv  
RT: 3.587 min Scan# 306  
Delta R.T. 0.010 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tgt Ion: 45 Resp: 617758  
Ion Ratio Lower Upper  
45 100  
58 2.8 2.1 3.1

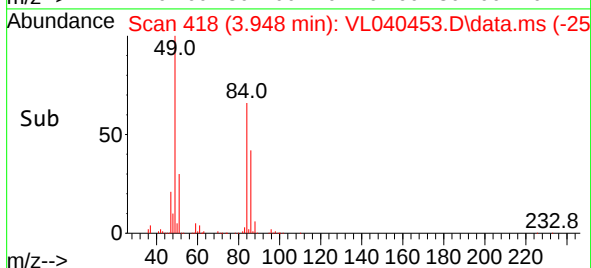
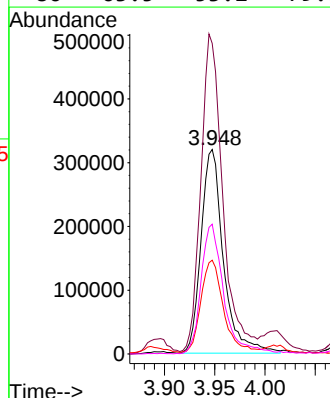
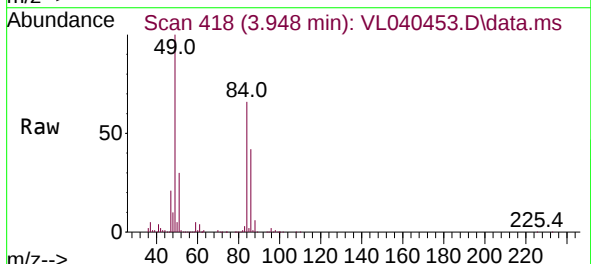
Manual Integrations  
APPROVED

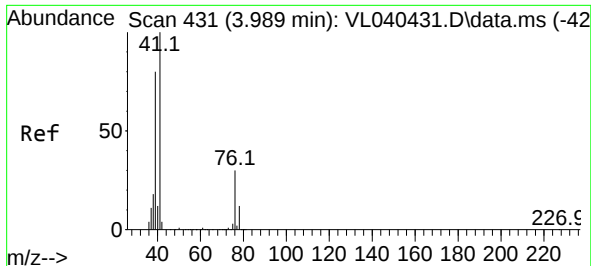
Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023



#20  
Methylene Chloride  
Concen: 8.382 ppbv  
RT: 3.948 min Scan# 418  
Delta R.T. 0.010 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

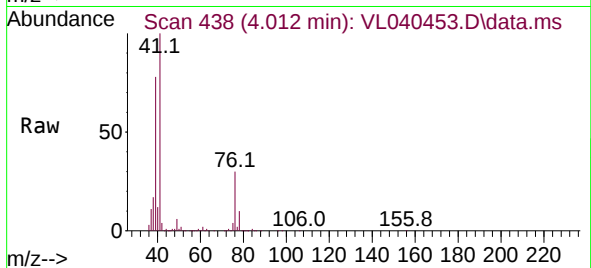
Tgt Ion: 84 Resp: 496126  
Ion Ratio Lower Upper  
84 100  
49 151.3 123.7 185.5  
51 45.2 38.6 57.8  
86 63.5 53.2 79.8





#21  
 Allyl Chloride  
 Concen: 10.046 ppbv  
 RT: 4.012 min Scan# 41  
 Delta R.T. 0.010 min  
 Lab File: VL040453.D  
 Acq: 17 May 2023 1:17

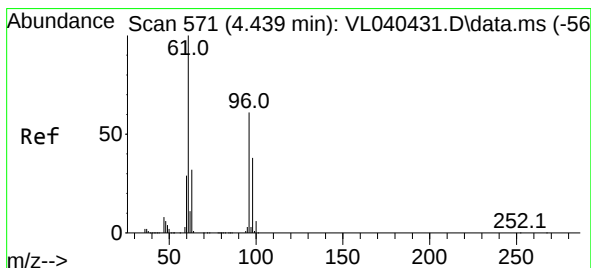
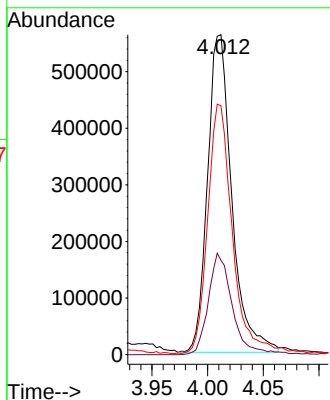
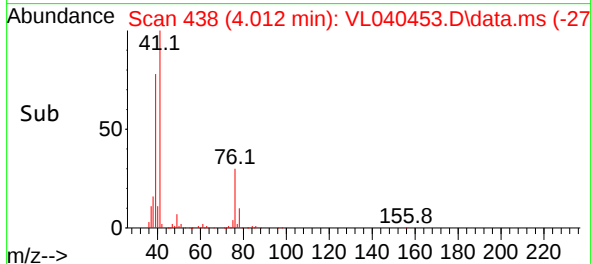
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC



Tgt Ion: 41 Resp: 85342  
 Ion Ratio Lower Upper  
 41 100  
 76 31.7 25.3 37.9  
 39 80.3 63.5 95.3

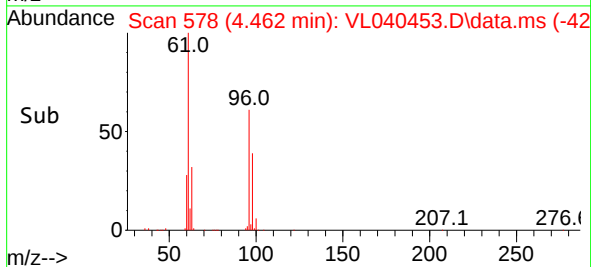
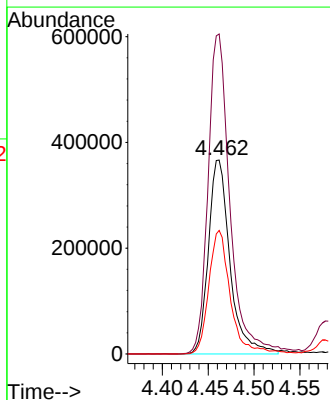
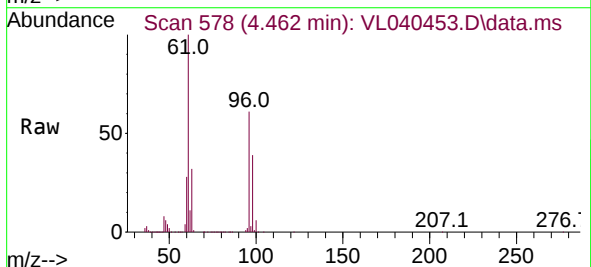
Manual Integrations  
 APPROVED

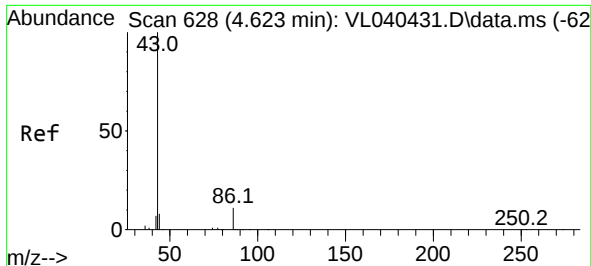
Reviewed By :Semsettin Yesilyurt 05/17/2023  
 Supervised By :Mahesh Dadoda 05/17/2023



#22  
 trans-1,2-Dichloroethene  
 Concen: 10.011 ppbv  
 RT: 4.462 min Scan# 578  
 Delta R.T. 0.007 min  
 Lab File: VL040453.D  
 Acq: 17 May 2023 1:17

Tgt Ion: 96 Resp: 602077  
 Ion Ratio Lower Upper  
 96 100  
 61 165.0 131.8 197.6  
 98 63.7 50.1 75.1





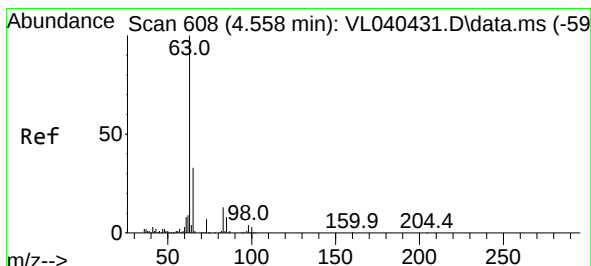
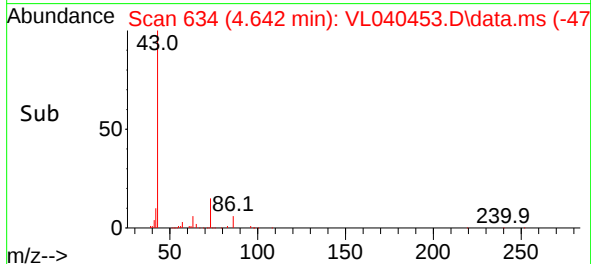
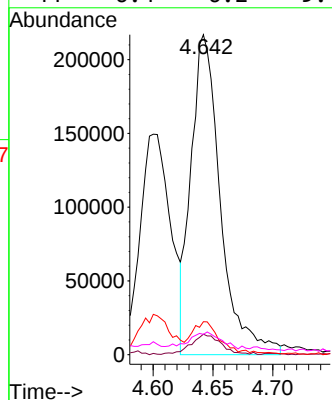
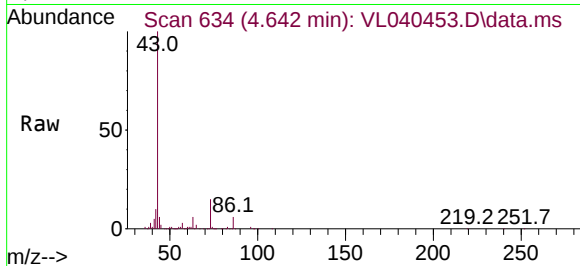
#23  
 Vinyl Acetate  
 Concen: 10.142 ppbv m  
 RT: 4.642 min Scan# 614  
 Delta R.T. 0.007 min  
 Lab File: VL040453.D  
 Acq: 17 May 2023 1:17

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

| Tgt Ion: | 43    | Resp: | 372425 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 86       | 6.4   | 5.4   | 8.2    |
| 42       | 10.3  | 7.8   | 11.6   |
| 44       | 6.4   | 6.2   | 9.4    |

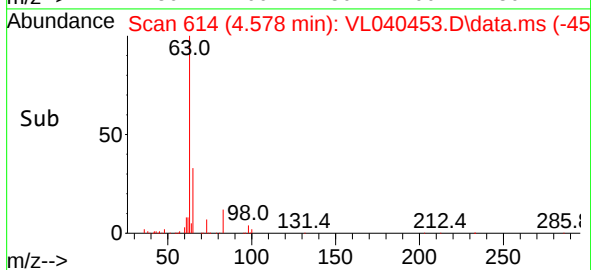
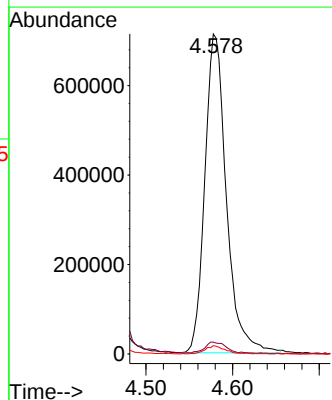
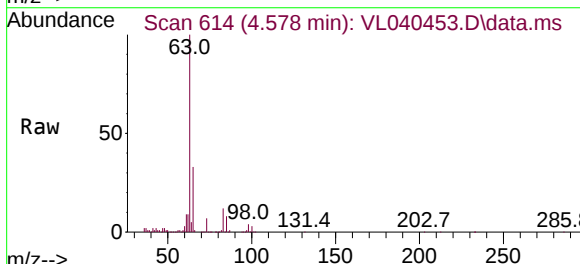
Manual Integrations  
 APPROVED

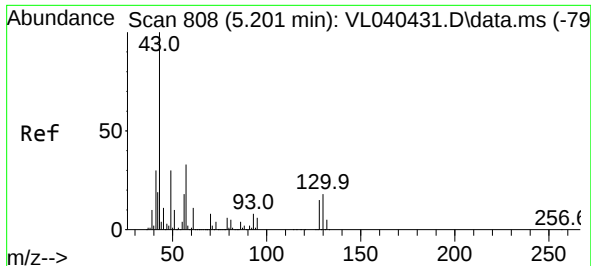
Reviewed By :Semsettin Yesilyurt 05/17/2023  
 Supervised By :Mahesh Dadoda 05/17/2023



#24  
 1,1-Dichloroethane  
 Concen: 9.795 ppbv  
 RT: 4.578 min Scan# 614  
 Delta R.T. 0.007 min  
 Lab File: VL040453.D  
 Acq: 17 May 2023 1:17

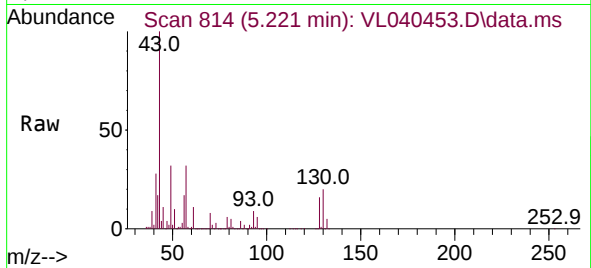
| Tgt Ion: | 63    | Resp: | 1230803 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 63       | 100   |       |         |
| 98       | 3.6   | 2.0   | 5.8     |
| 100      | 2.6   | 1.4   | 4.2     |





#25  
Ethyl Acetate  
Concen: 9.998 ppbv  
RT: 5.221 min Scan# 814  
Delta R.T. 0.007 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

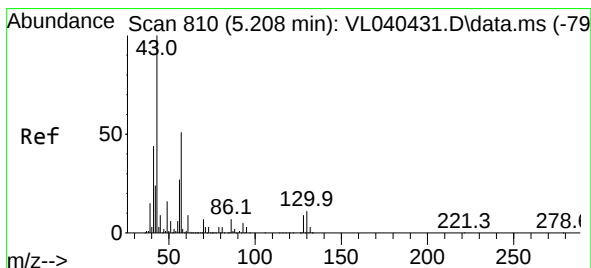
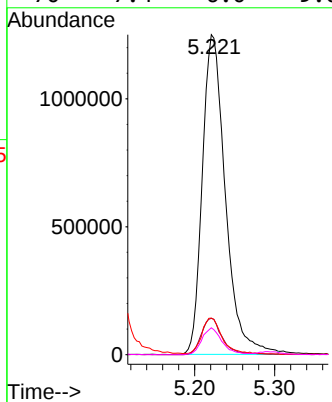
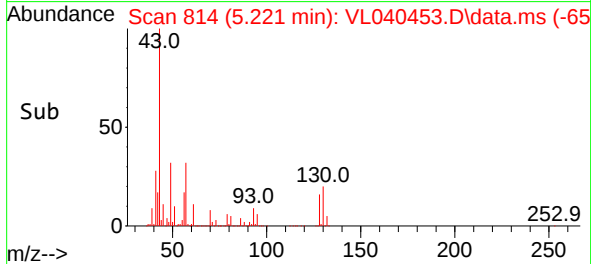
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC



Tgt Ion: 43 Resp: 2501872  
Ion Ratio Lower Upper  
43 100  
45 10.7 8.6 13.0  
61 10.5 8.6 12.8  
70 7.4 6.0 9.0

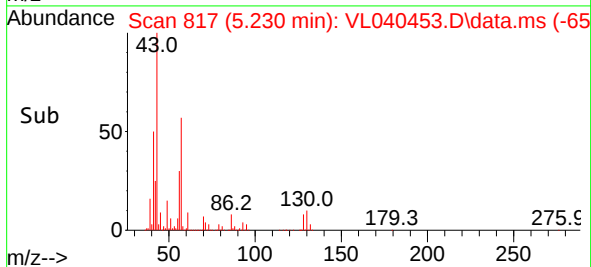
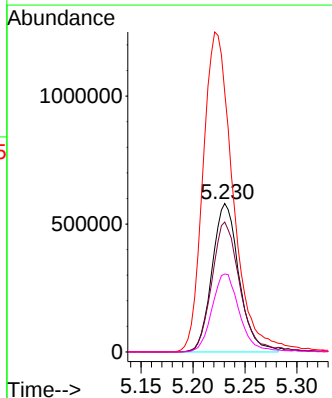
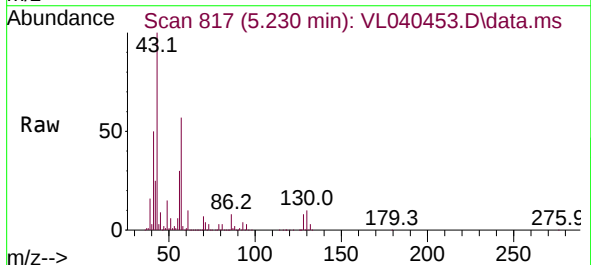
Manual Integrations  
APPROVED

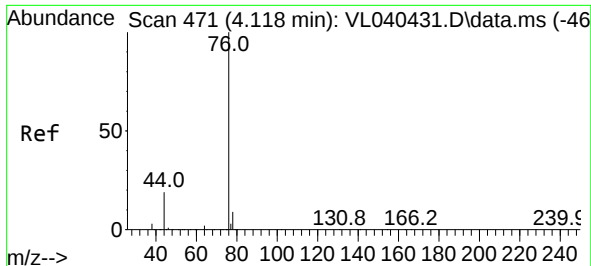
Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023



#26  
Hexane  
Concen: 10.069 ppbv  
RT: 5.230 min Scan# 817  
Delta R.T. 0.007 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

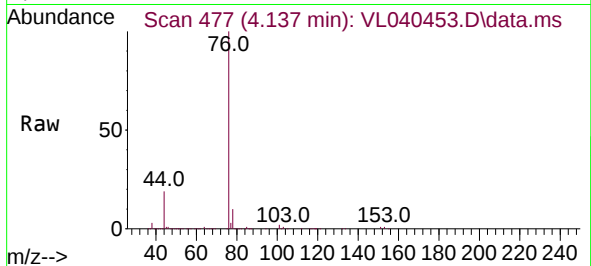
Tgt Ion: 57 Resp: 1044420  
Ion Ratio Lower Upper  
57 100  
41 93.0 75.1 112.7  
43 242.7 194.4 291.6  
56 54.2 42.7 64.1





#27  
Carbon Disulfide  
Concen: 10.636 ppbv  
RT: 4.137 min Scan# 41  
Delta R.T. 0.007 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

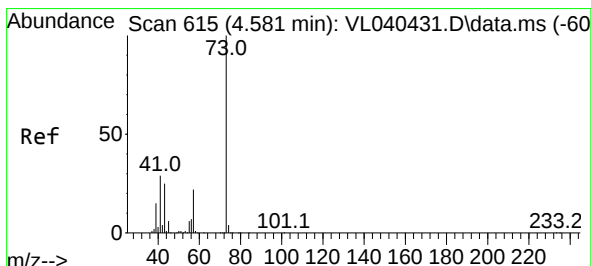
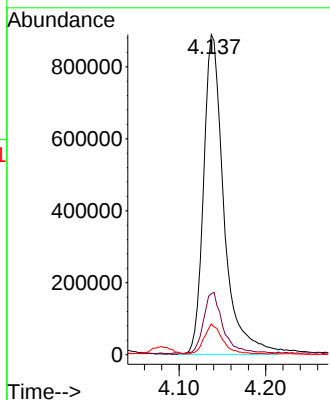
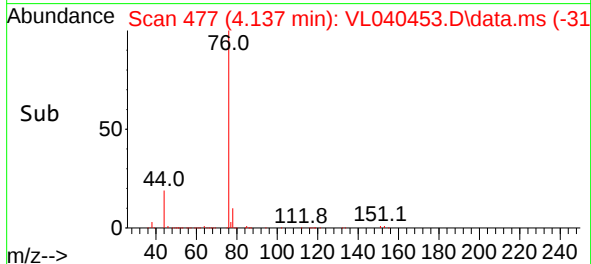
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC



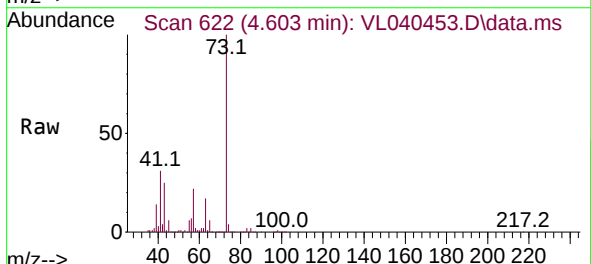
Tgt Ion: 76 Resp: 1450089  
Ion Ratio Lower Upper  
76 100  
44 18.7 15.3 22.9  
78 9.5 7.4 11.2

Manual Integrations  
APPROVED

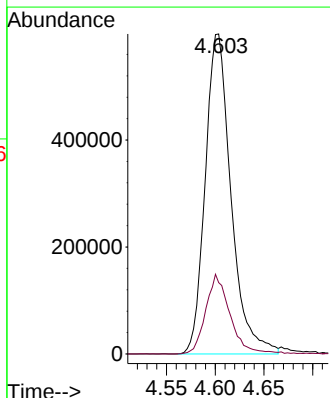
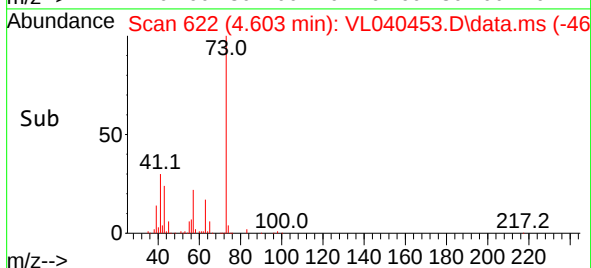
Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023

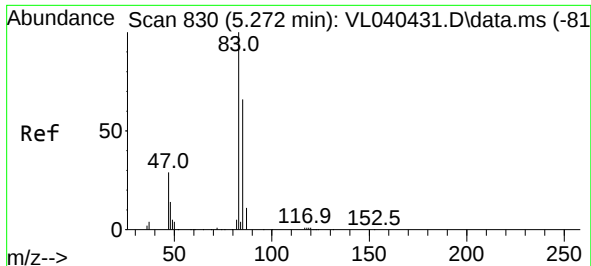


#28  
Methyl tert-Butyl Ether  
Concen: 10.013 ppbv  
RT: 4.603 min Scan# 622  
Delta R.T. 0.010 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17



Tgt Ion: 73 Resp: 1103396  
Ion Ratio Lower Upper  
73 100  
57 23.7 18.9 28.3





#29

Chloroform

Concen: 9.628 ppbv

RT: 5.295 min Scan# 81

Delta R.T. 0.010 min

Lab File: VL040453.D

Acq: 17 May 2023 1:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 83 Resp: 182094

Ion Ratio Lower Upper

83 100

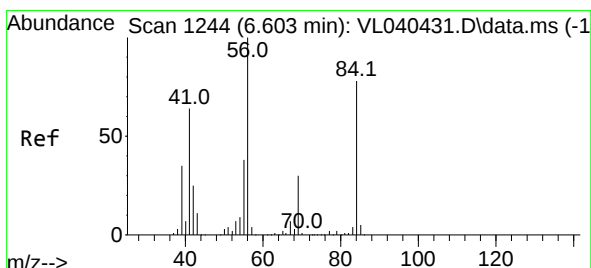
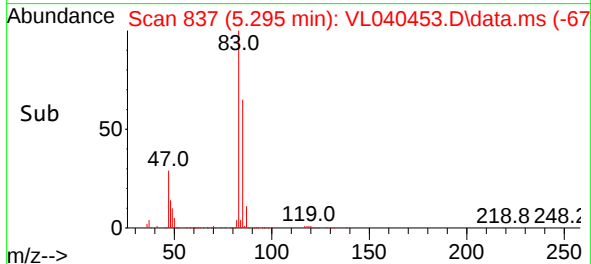
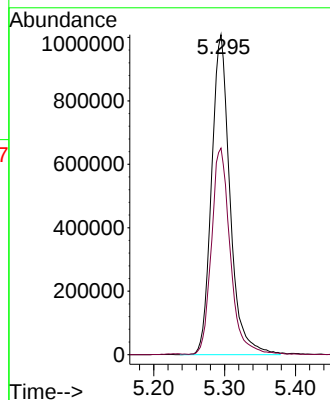
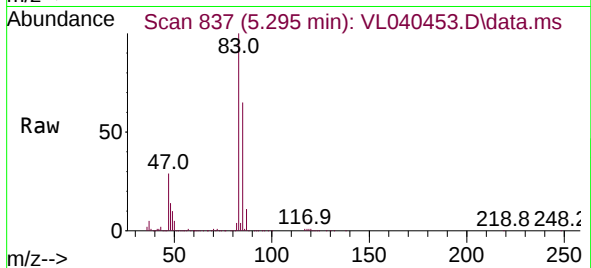
85 64.3 52.4 78.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/17/2023

Supervised By :Mahesh Dadoda 05/17/2023



#30

Cyclohexane

Concen: 10.533 ppbv

RT: 6.623 min Scan# 1250

Delta R.T. 0.007 min

Lab File: VL040453.D

Acq: 17 May 2023 1:17

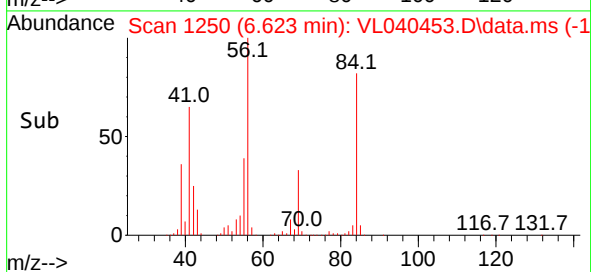
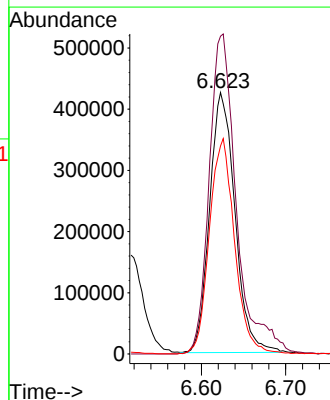
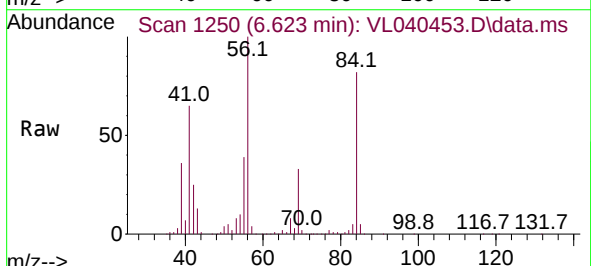
Tgt Ion: 84 Resp: 888801

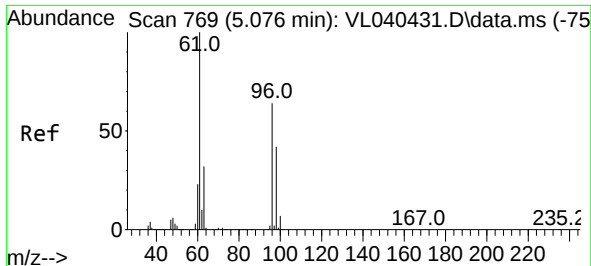
Ion Ratio Lower Upper

84 100

56 132.8 108.2 162.4

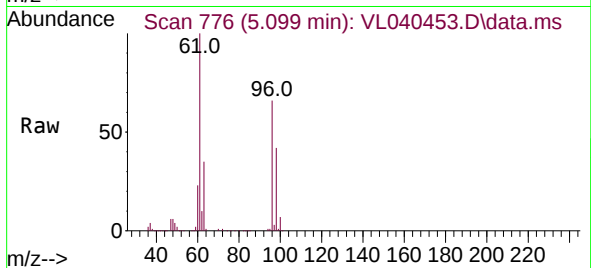
41 82.5 66.9 100.3





#31  
cis-1,2-Dichloroethene  
Concen: 10.779 ppbv  
RT: 5.099 min Scan# 71  
Delta R.T. 0.010 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

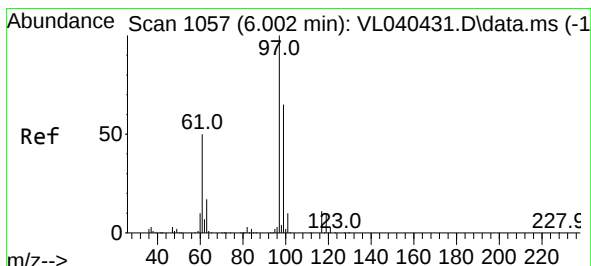
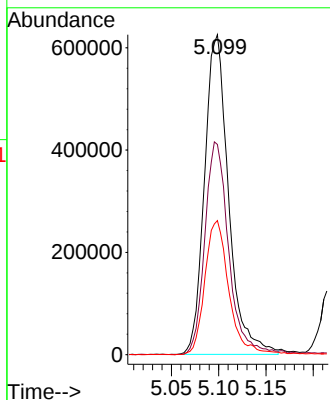
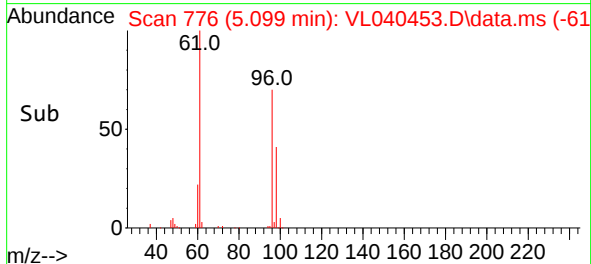
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC



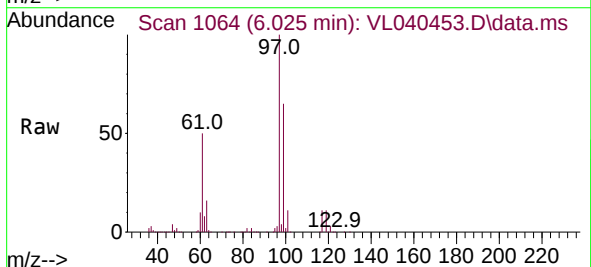
Tgt Ion: 61 Resp: 1107379  
Ion Ratio Lower Upper  
61 100  
96 65.7 51.4 77.0  
98 41.8 33.6 50.4

Manual Integrations  
APPROVED

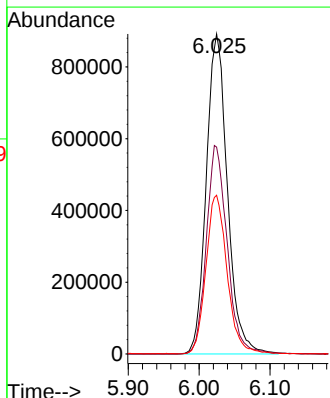
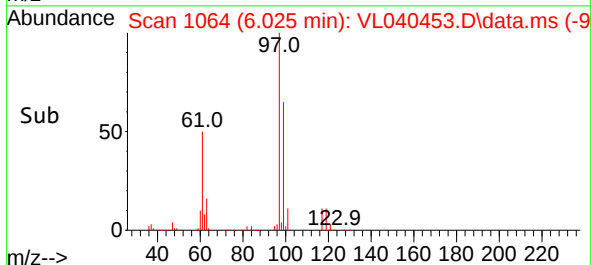
Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023

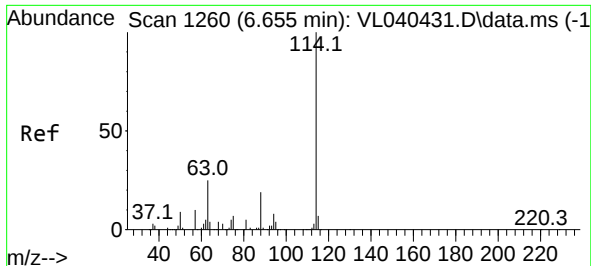


#32  
1,1,1-Trichloroethane  
Concen: 9.395 ppbv  
RT: 6.025 min Scan# 1064  
Delta R.T. 0.010 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17



Tgt Ion: 97 Resp: 1846167  
Ion Ratio Lower Upper  
97 100  
99 64.3 52.2 78.2  
61 49.9 40.2 60.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.677 min Scan# 114

Delta R.T. 0.007 min

Lab File: VL040453.D

Acq: 17 May 2023 1:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion:114 Resp: 265864

Ion Ratio Lower Upper

114 100

63 26.1 21.0 31.6

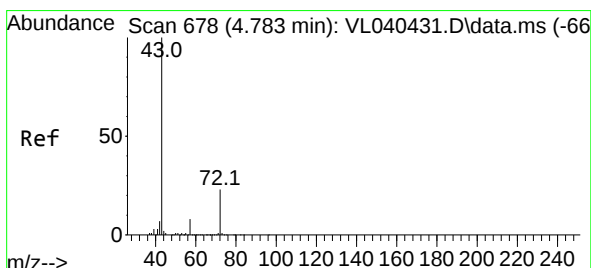
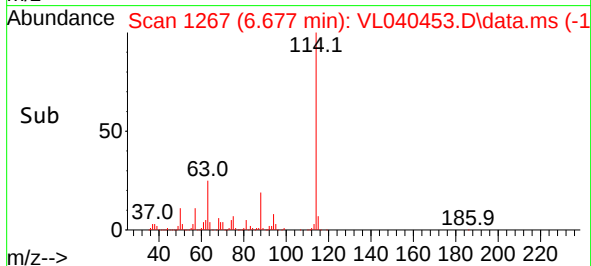
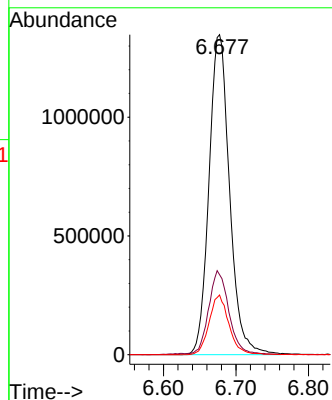
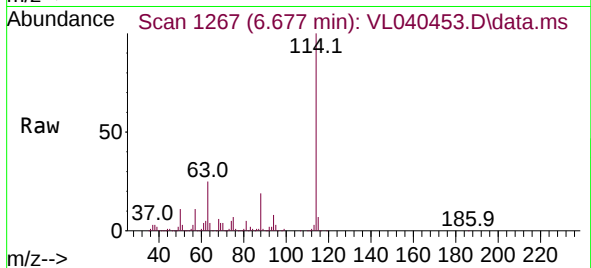
88 17.9 14.6 22.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/17/2023

Supervised By :Mahesh Dadoda 05/17/2023



#34

2-Butanone

Concen: 10.339 ppbv

RT: 4.803 min Scan# 684

Delta R.T. 0.007 min

Lab File: VL040453.D

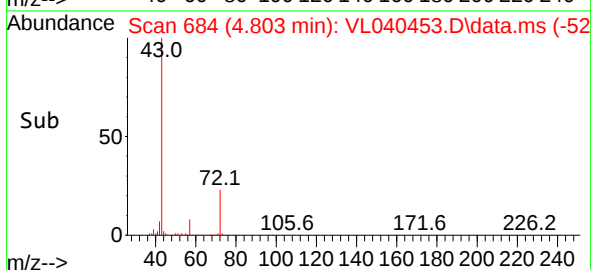
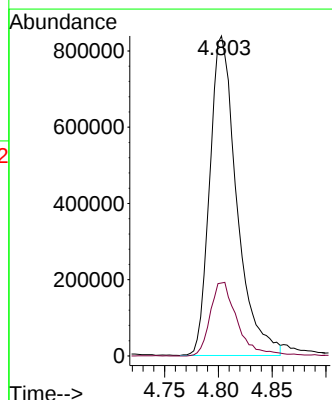
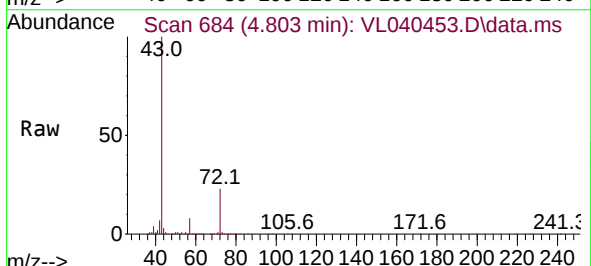
Acq: 17 May 2023 1:17

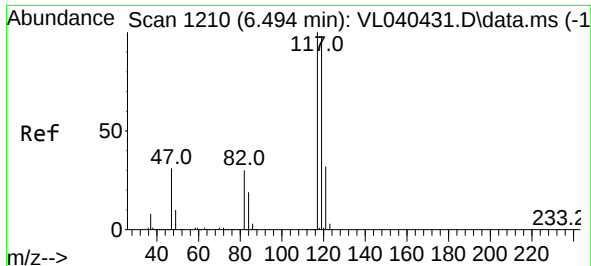
Tgt Ion: 43 Resp: 1463351

Ion Ratio Lower Upper

43 100

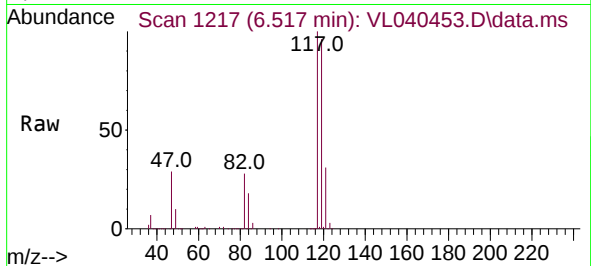
72 23.7 18.3 27.5





#35  
Carbon Tetrachloride  
Concen: 9.798 ppbv  
RT: 6.517 min Scan# 1117  
Delta R.T. 0.007 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

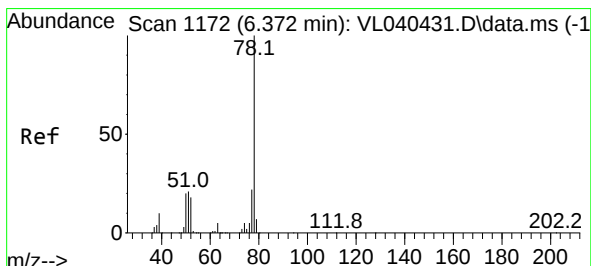
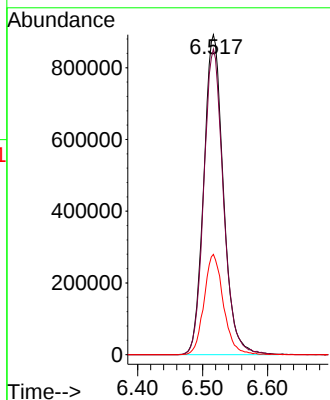
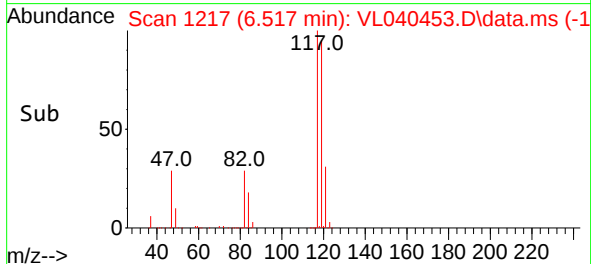
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC



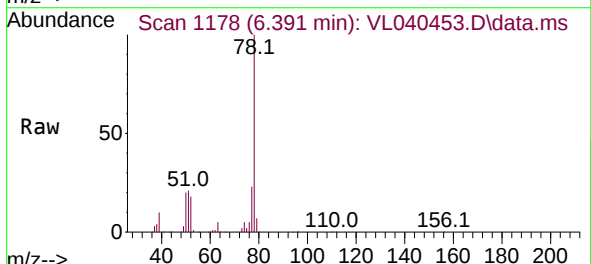
Tgt Ion: 117 Resp: 186968  
Ion Ratio Lower Upper  
117 100  
119 95.5 78.0 117.0  
121 31.4 25.2 37.8

Manual Integrations  
APPROVED

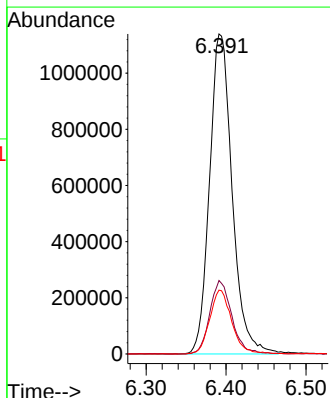
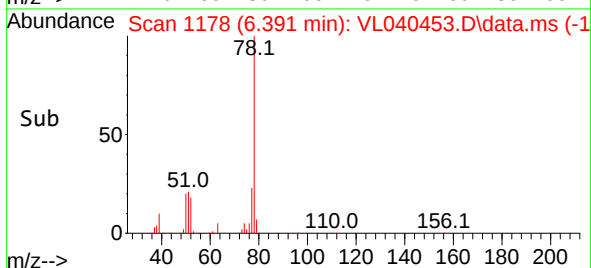
Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023

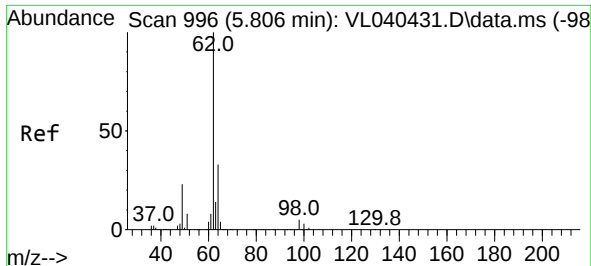


#36  
Benzene  
Concen: 10.353 ppbv  
RT: 6.391 min Scan# 1178  
Delta R.T. 0.007 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17



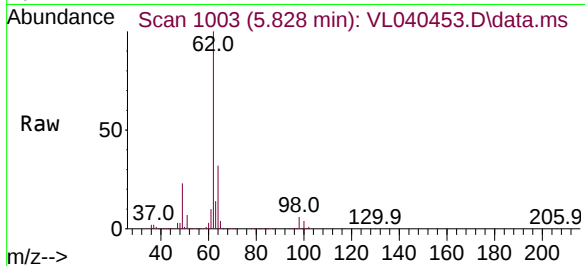
Tgt Ion: 78 Resp: 2235419  
Ion Ratio Lower Upper  
78 100  
77 22.9 17.7 26.5  
50 19.9 15.8 23.8





#37  
1,2-Dichloroethane  
Concen: 10.102 ppbv  
RT: 5.828 min Scan# 1003  
Delta R.T. 0.010 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

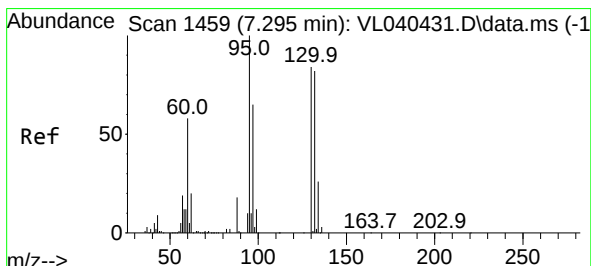
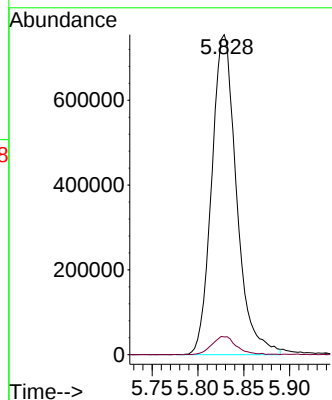
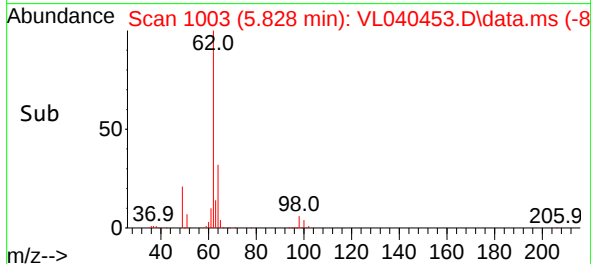
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC



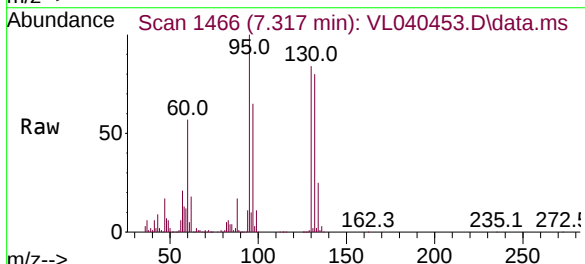
Tgt Ion: 62 Resp: 142533  
Ion Ratio Lower Upper  
62 100  
98 5.8 4.5 6.7

Manual Integrations  
APPROVED

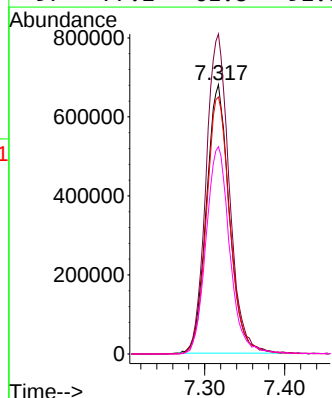
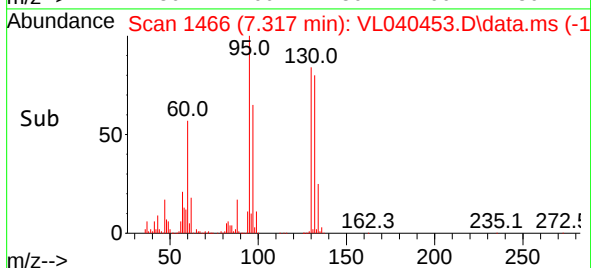
Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023

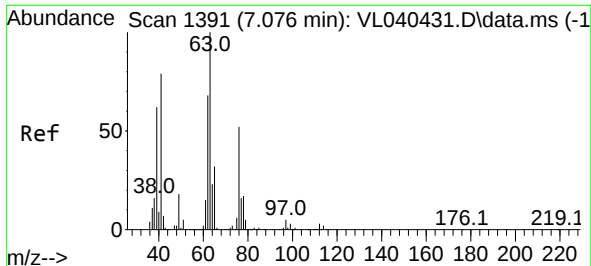


#38  
Trichloroethene  
Concen: 10.189 ppbv  
RT: 7.317 min Scan# 1466  
Delta R.T. 0.007 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17



Tgt Ion:130 Resp: 1355477  
Ion Ratio Lower Upper  
130 100  
95 119.1 94.8 142.2  
132 95.6 78.2 117.4  
97 77.2 61.8 92.8





#39

1,2-Dichloropropane

Concen: 10.079 ppbv

RT: 7.099 min Scan# 1465

Delta R.T. 0.010 min

Lab File: VL040453.D

Acq: 17 May 2023 1:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

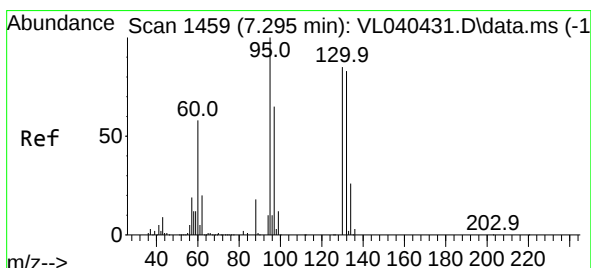
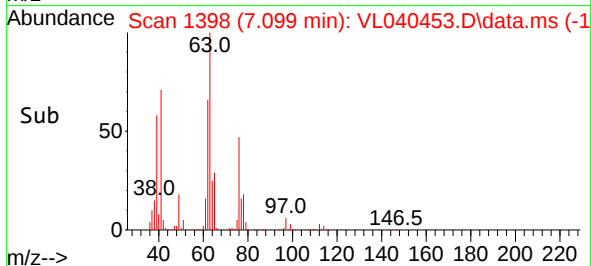
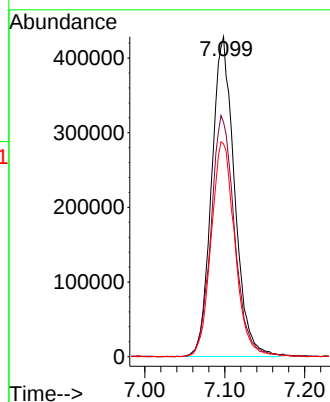
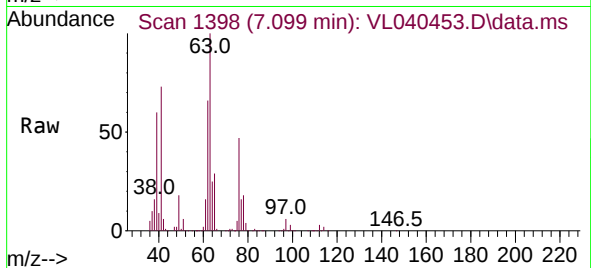
Tgt Ion: 63 Resp: 852520

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 41  | 73.2  | 63.3  | 94.9  |
| 62  | 66.5  | 54.2  | 81.4  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023



#40

1,4-Dioxane

Concen: 10.305 ppbv

RT: 7.314 min Scan# 1465

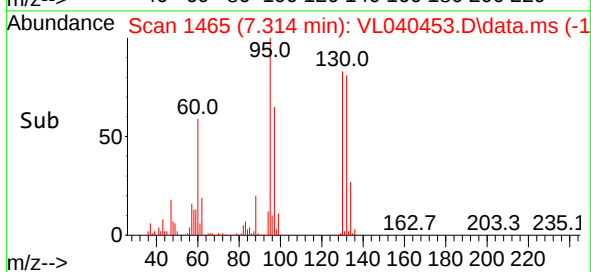
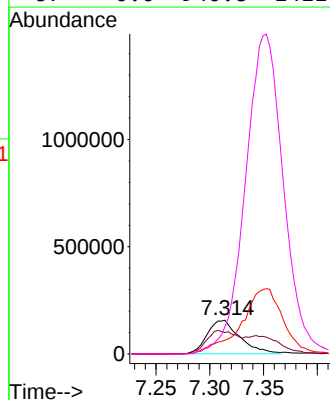
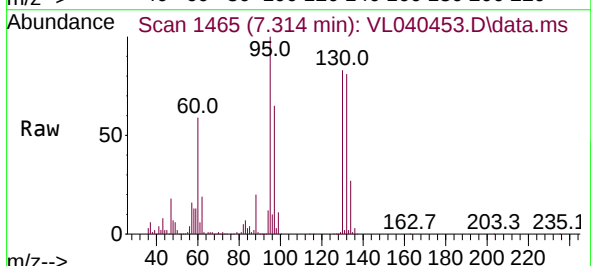
Delta R.T. 0.010 min

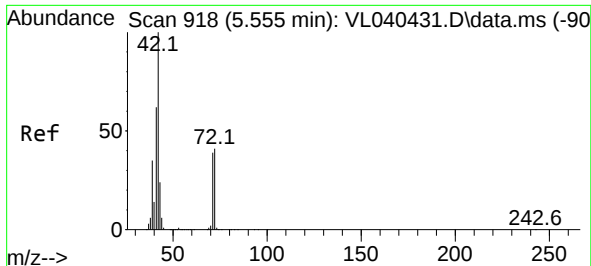
Lab File: VL040453.D

Acq: 17 May 2023 1:17

Tgt Ion: 88 Resp: 331551

| Ion | Ratio | Lower | Upper   |
|-----|-------|-------|---------|
| 88  | 100   |       |         |
| 58  | 123.7 | 101.5 | 152.3   |
| 43  | 0.0   | 211.7 | 317.5#  |
| 57  | 0.0   | 940.8 | 1411.2# |





#41

Tetrahydrofuran

Concen: 10.842 ppbv

RT: 5.574 min Scan# 918

Delta R.T. 0.007 min

Lab File: VL040453.D

Acq: 17 May 2023 1:17

Instrument :

MSVOA\_L

ClientSampleId :

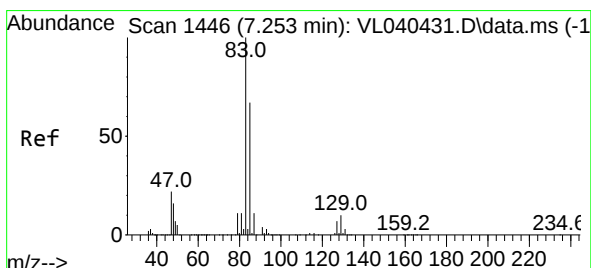
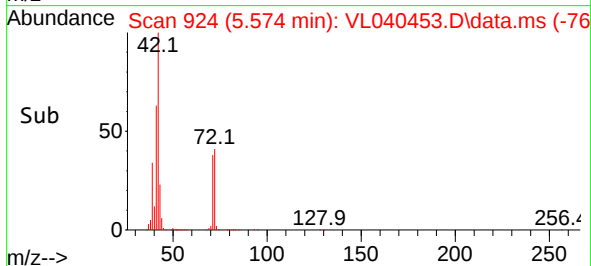
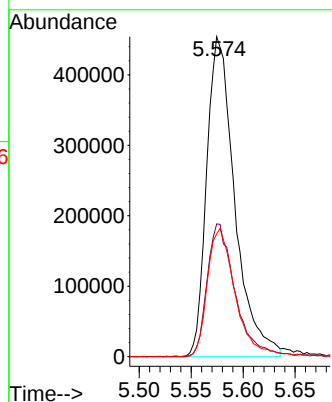
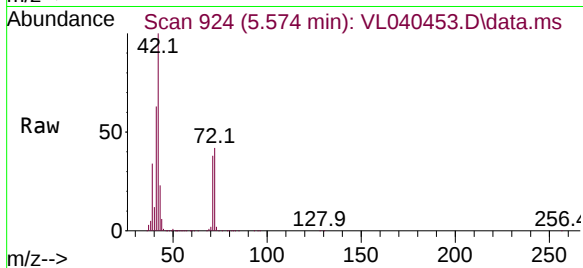
VSTDCCC010EC

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 42    | Resp: | 851539 |
| Ion Ratio | Lower | Upper |        |
| 42        | 100   |       |        |
| 72        | 42.1  | 33.0  | 49.4   |
| 71        | 40.5  | 32.2  | 48.2   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023



#42

Bromodichloromethane

Concen: 10.480 ppbv

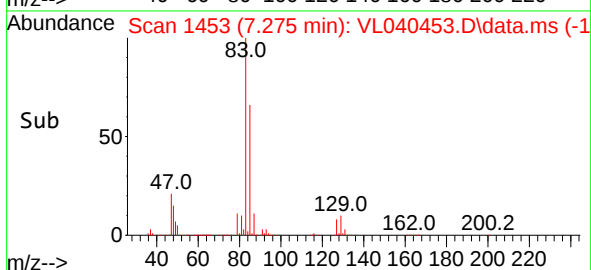
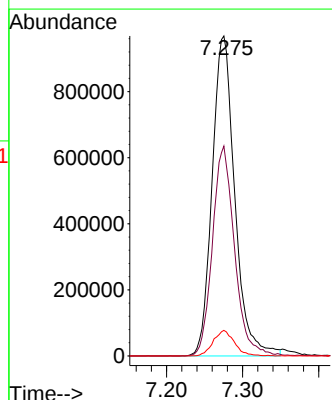
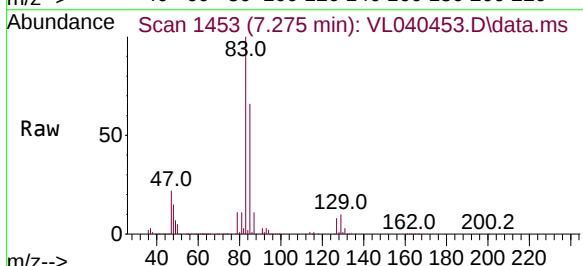
RT: 7.275 min Scan# 1453

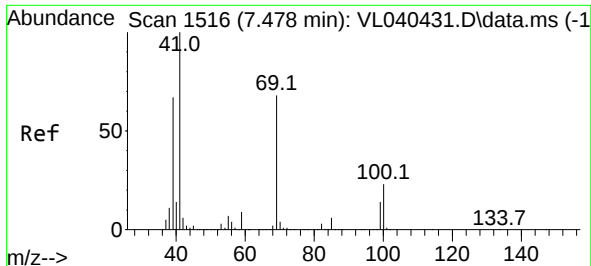
Delta R.T. 0.010 min

Lab File: VL040453.D

Acq: 17 May 2023 1:17

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 83    | Resp: | 2001456 |
| Ion Ratio | Lower | Upper |         |
| 83        | 100   |       |         |
| 85        | 65.6  | 53.6  | 80.4    |
| 127       | 8.0   | 5.9   | 8.9     |





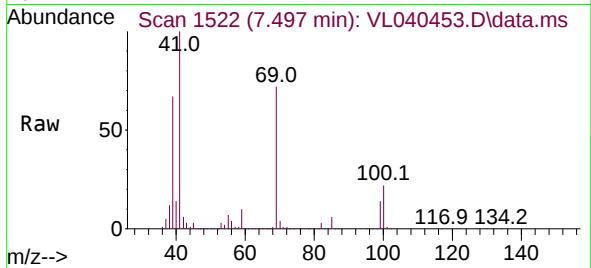
#43  
Methyl Methacrylate  
Concen: 11.194 ppbv  
RT: 7.497 min Scan# 1477  
Delta R.T. 0.007 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

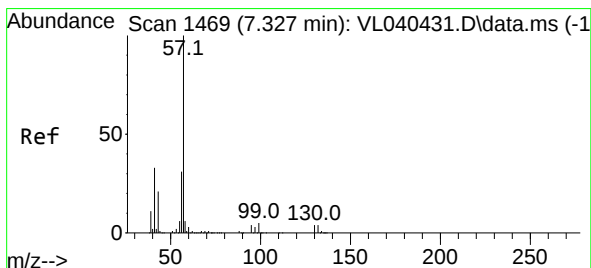
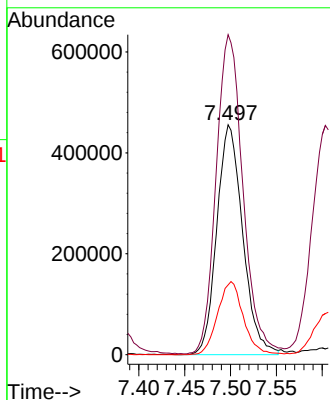
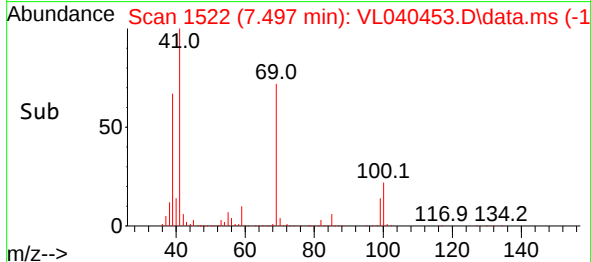


Tgt Ion: 69 Resp: 894197  
Ion Ratio Lower Upper  
69 100  
41 144.5 114.8 172.2  
100 31.6 25.4 38.0

Manual Integrations

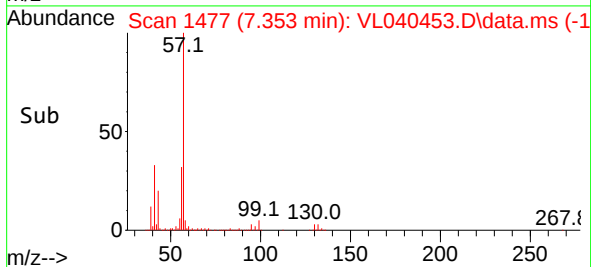
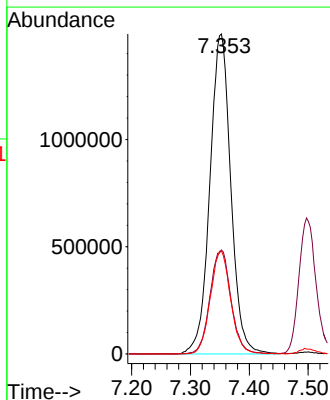
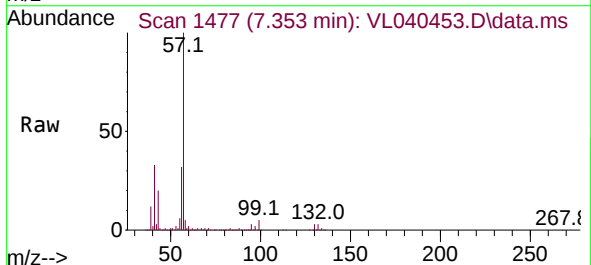
APPROVED

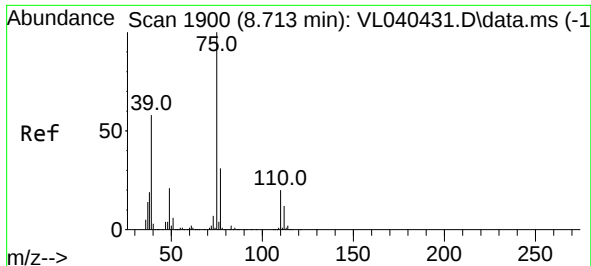
Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023



#44  
2,2,4-Trimethylpentane  
Concen: 10.317 ppbv  
RT: 7.353 min Scan# 1477  
Delta R.T. 0.010 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

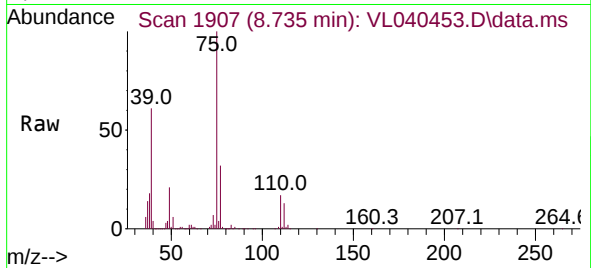
Tgt Ion: 57 Resp: 3686457  
Ion Ratio Lower Upper  
57 100  
41 32.7 27.0 40.4  
56 31.3 25.0 37.4





#45  
 t-1,3-Dichloropropene  
 Concen: 12.391 ppbv  
 RT: 8.735 min Scan# 1900  
 Delta R.T. 0.007 min  
 Lab File: VL040453.D  
 Acq: 17 May 2023 1:17

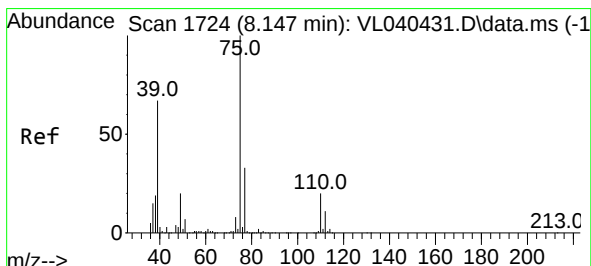
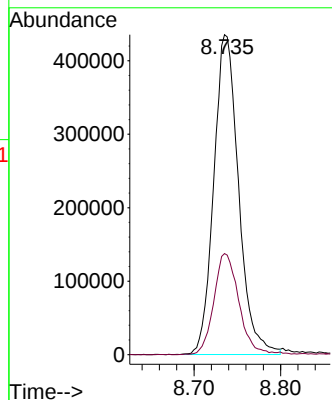
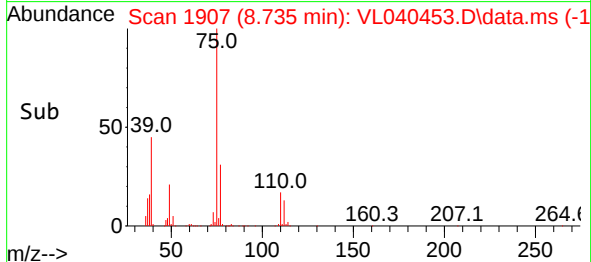
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC



Tgt Ion: 75 Resp: 867098  
 Ion Ratio Lower Upper  
 75 100  
 77 31.6 25.0 37.6

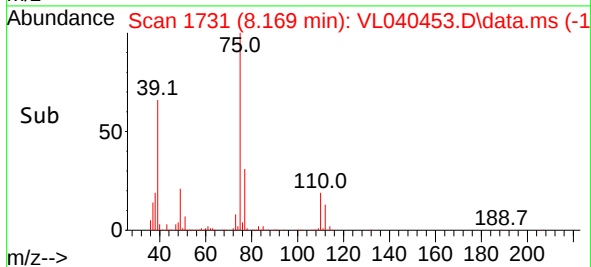
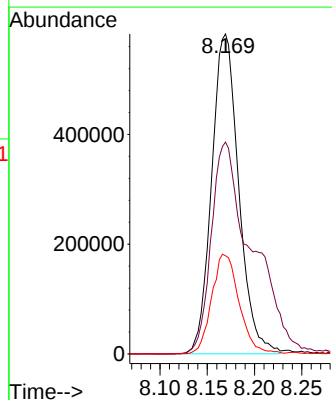
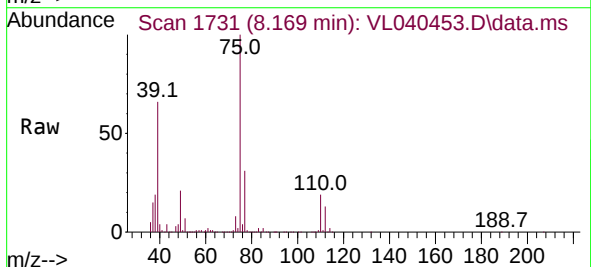
Manual Integrations  
 APPROVED

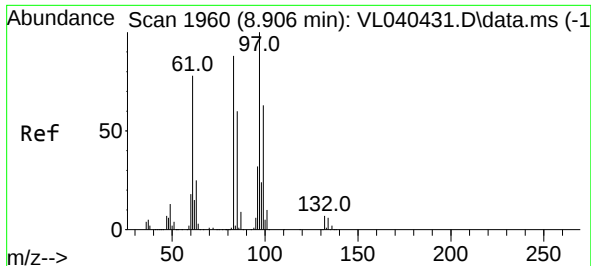
Reviewed By :Semsettin Yesilyurt 05/17/2023  
 Supervised By :Mahesh Dadoda 05/17/2023



#46  
 cis-1,3-Dichloropropene  
 Concen: 11.746 ppbv  
 RT: 8.169 min Scan# 1731  
 Delta R.T. 0.007 min  
 Lab File: VL040453.D  
 Acq: 17 May 2023 1:17

Tgt Ion: 75 Resp: 1161530  
 Ion Ratio Lower Upper  
 75 100  
 39 66.1 53.8 80.8  
 77 30.7 26.3 39.5





#47

1,1,2-Trichloroethane

Concen: 10.303 ppbv

RT: 8.925 min Scan# 1960

Delta R.T. 0.003 min

Lab File: VL040453.D

Acq: 17 May 2023 1:17

Instrument :

MSVOA\_L

ClientSampleId :

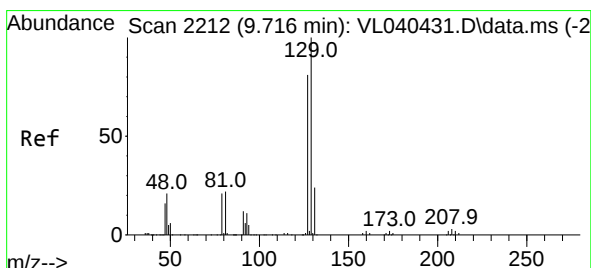
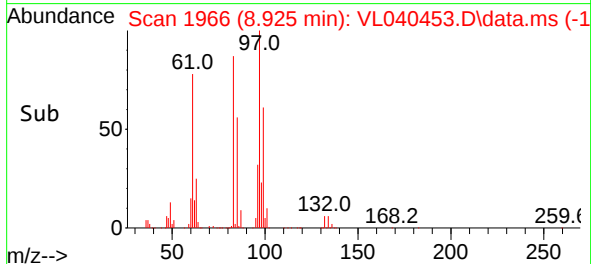
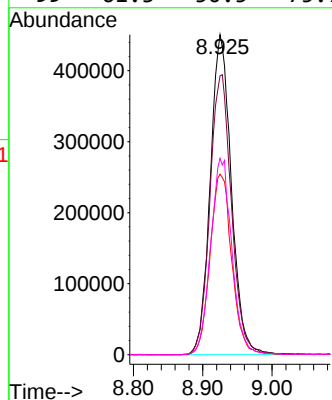
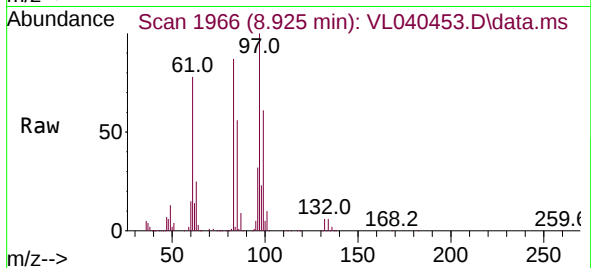
VSTDCCC010EC

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 95115 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 87.1  | 70.3  | 105.5 |
| 85       | 56.4  | 47.7  | 71.5  |
| 99       | 61.3  | 50.5  | 75.7  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023



#48

Dibromochloromethane

Concen: 10.917 ppbv

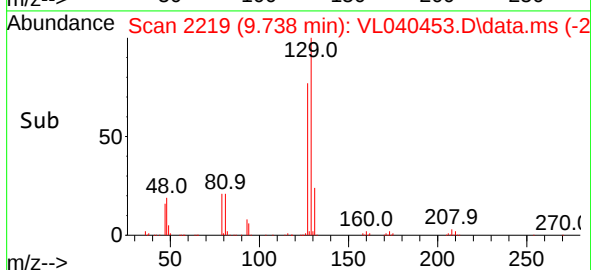
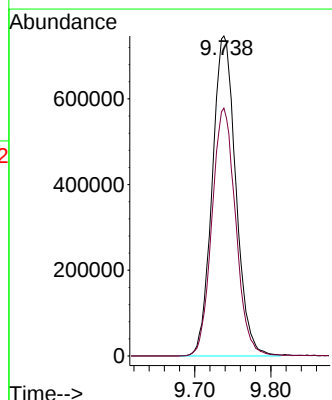
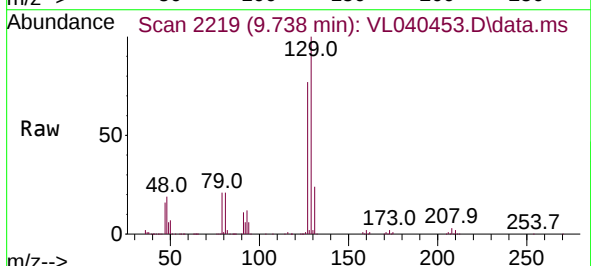
RT: 9.738 min Scan# 2219

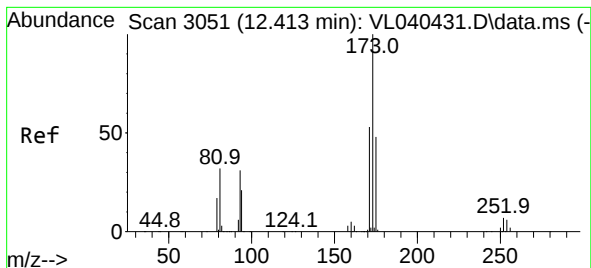
Delta R.T. 0.007 min

Lab File: VL040453.D

Acq: 17 May 2023 1:17

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 129   | Resp: | 1609844 |
| Ion      | Ratio | Lower | Upper   |
| 129      | 100   |       |         |
| 127      | 77.9  | 39.2  | 117.6   |





#49

Bromoform

Concen: 11.084 ppbv

RT: 12.436 min Scan# 3051

Delta R.T. 0.003 min

Lab File: VL040453.D

Acq: 17 May 2023 1:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion:173 Resp: 128947

Ion Ratio Lower Upper

173 100

175 48.8 39.4 59.2

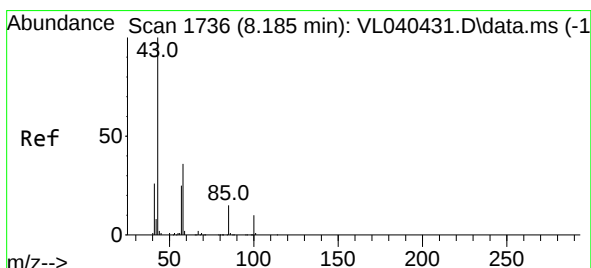
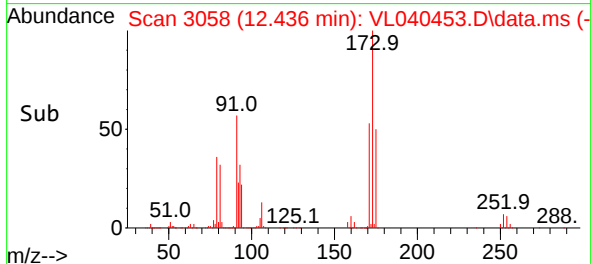
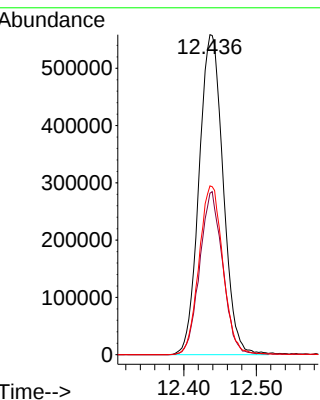
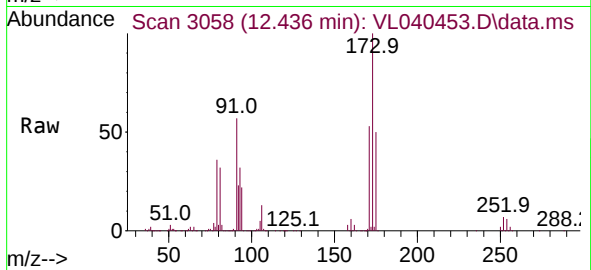
171 52.5 42.0 63.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/17/2023

Supervised By :Mahesh Dadoda 05/17/2023



#50

4-Methyl-2-Pentanone

Concen: 10.600 ppbv

RT: 8.208 min Scan# 1743

Delta R.T. 0.010 min

Lab File: VL040453.D

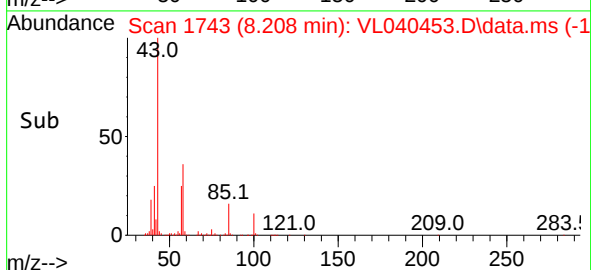
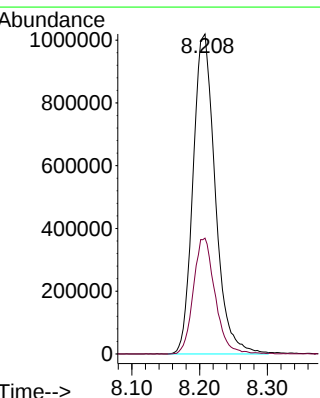
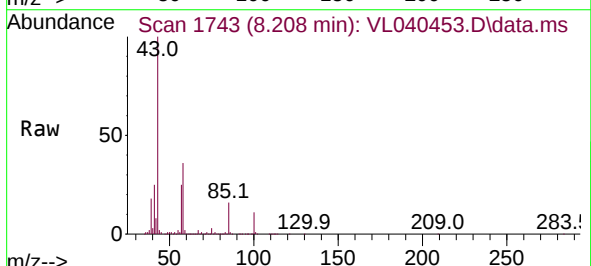
Acq: 17 May 2023 1:17

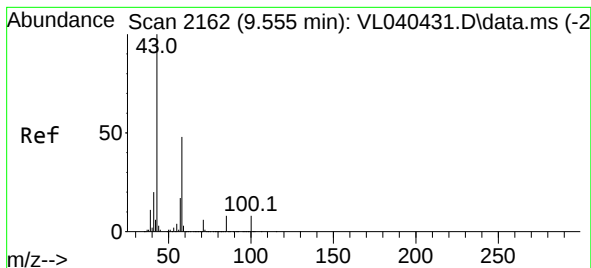
Tgt Ion: 43 Resp: 2317635

Ion Ratio Lower Upper

43 100

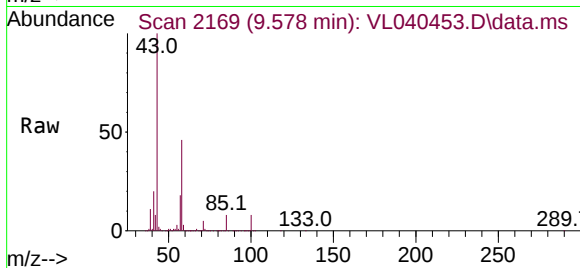
58 35.7 28.8 43.2





#51  
2-Hexanone  
Concen: 11.144 ppbv  
RT: 9.578 min Scan# 2162  
Delta R.T. 0.010 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

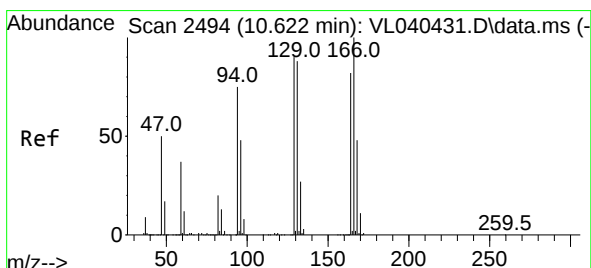
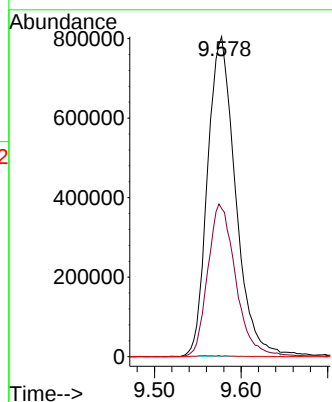
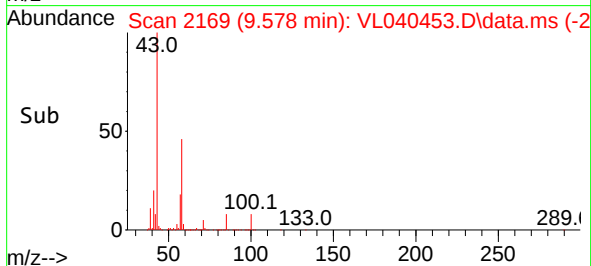
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC



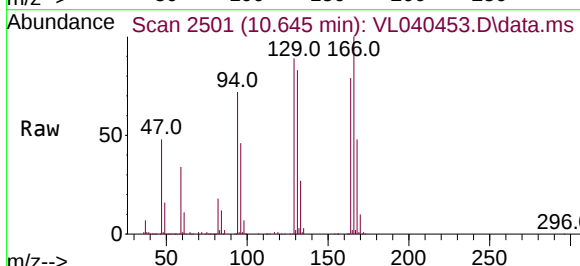
Tgt Ion: 43 Resp: 179481  
Ion Ratio Lower Upper  
43 100  
58 48.1 38.5 57.7  
98 0.5 0.2 0.4

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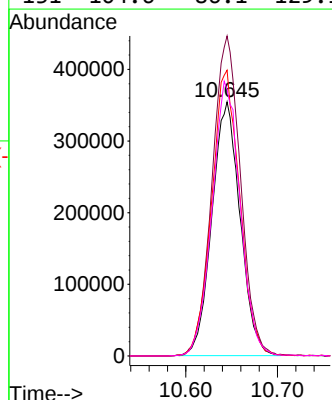
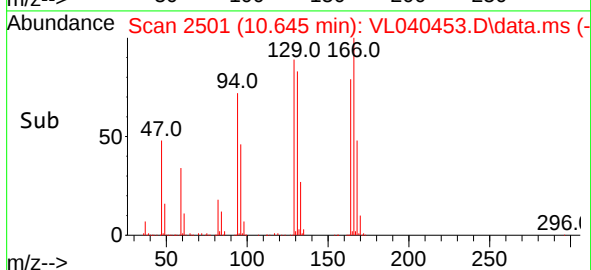
Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023

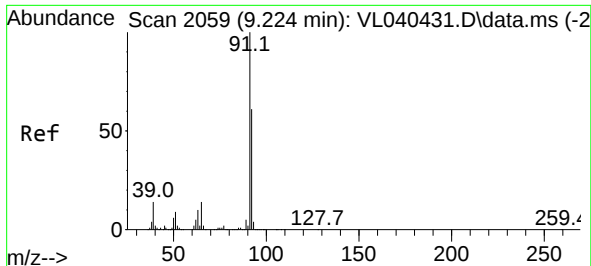


#52  
Tetrachloroethene  
Concen: 10.293 ppbv  
RT: 10.645 min Scan# 2501  
Delta R.T. 0.007 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17



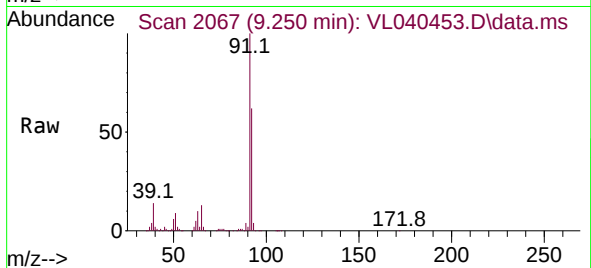
Tgt Ion:164 Resp: 754762  
Ion Ratio Lower Upper  
164 100  
166 125.8 97.8 146.6  
129 112.1 88.4 132.6  
131 104.6 86.1 129.1





#53  
Toluene  
Concen: 11.193 ppbv  
RT: 9.250 min Scan# 2059  
Delta R.T. 0.007 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

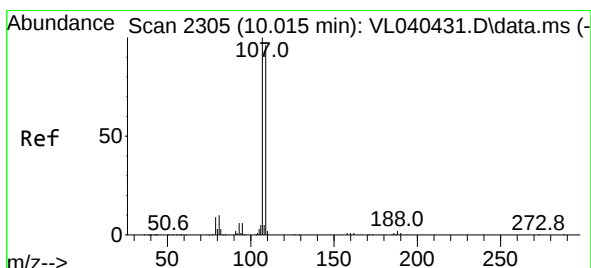
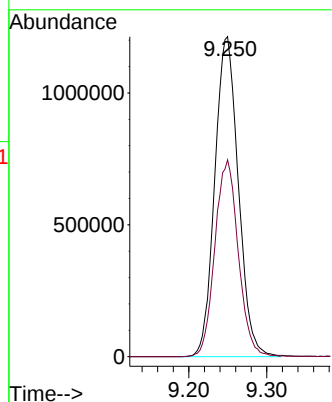
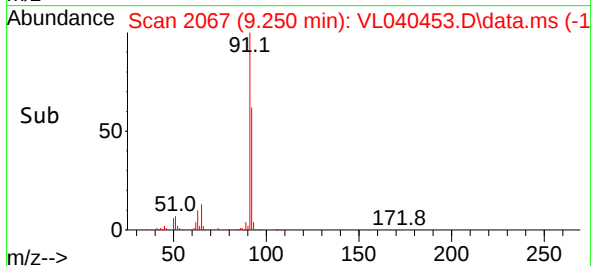
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC



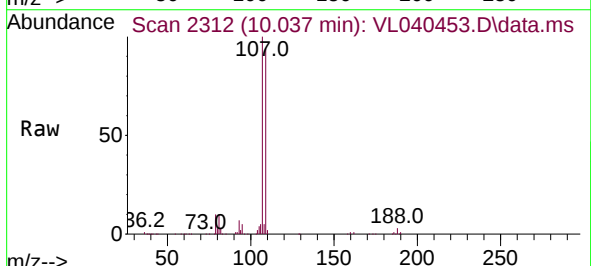
Tgt Ion: 91 Resp: 2552778  
Ion Ratio Lower Upper  
91 100  
92 61.1 49.1 73.7

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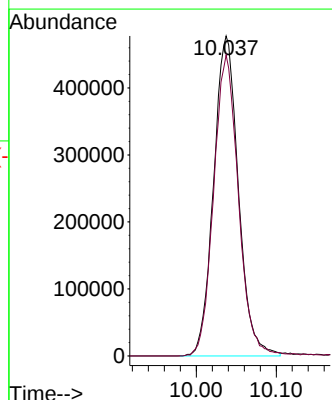
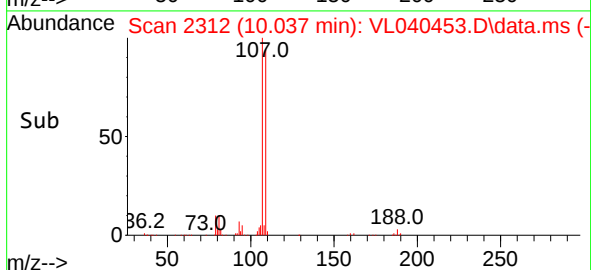
Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023

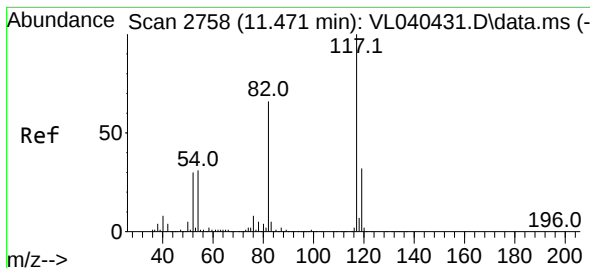


#54  
1,2-Dibromoethane  
Concen: 11.117 ppbv  
RT: 10.037 min Scan# 2312  
Delta R.T. 0.007 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17



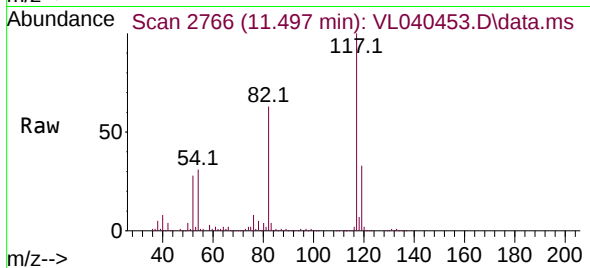
Tgt Ion:107 Resp: 1025635  
Ion Ratio Lower Upper  
107 100  
109 93.9 76.7 115.1





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.497 min Scan# 2766  
Delta R.T. 0.007 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

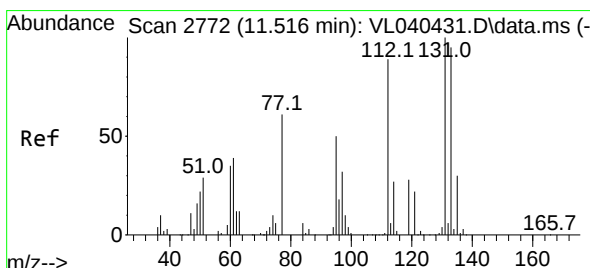
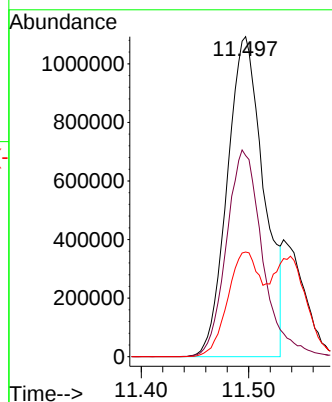
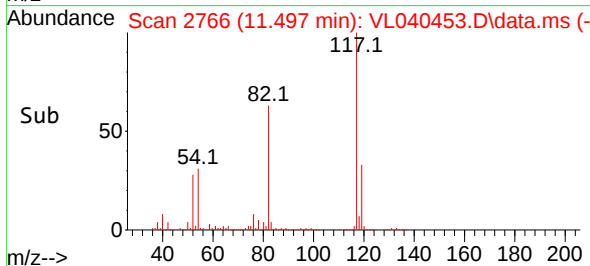
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC



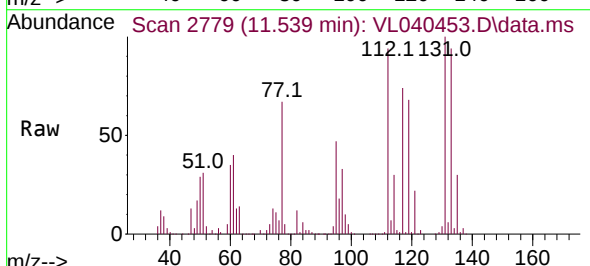
Tgt Ion:117 Resp: 258168  
Ion Ratio Lower Upper  
117 100  
82 64.5 52.5 78.7  
119 28.3 24.0 36.0

Manual Integrations  
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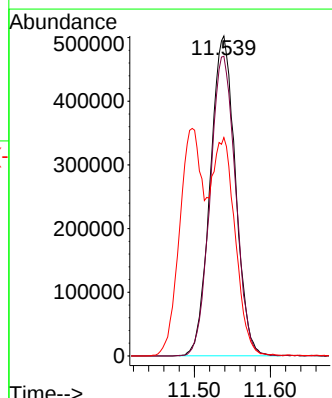
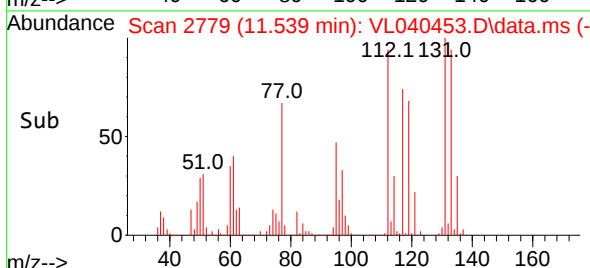
Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023

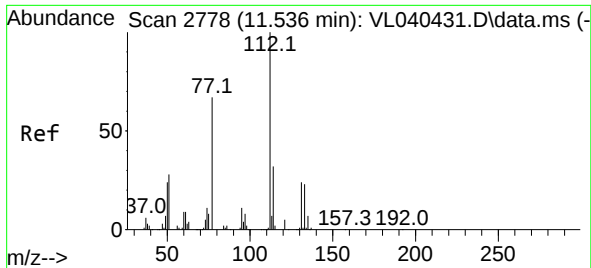


#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.632 ppbv  
RT: 11.539 min Scan# 2779  
Delta R.T. 0.010 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17



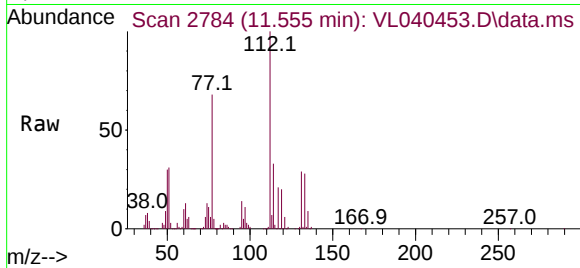
Tgt Ion:131 Resp: 1151671  
Ion Ratio Lower Upper  
131 100  
133 95.1 75.8 113.8  
119 64.9 48.7 73.1





#57  
Chlorobenzene  
Concen: 9.466 ppbv  
RT: 11.555 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

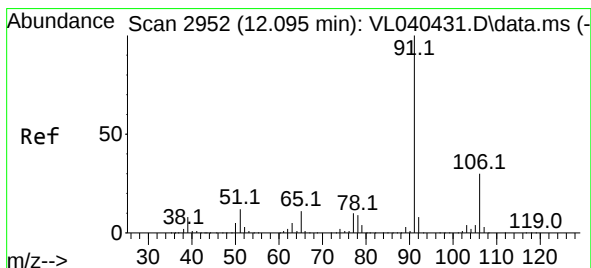
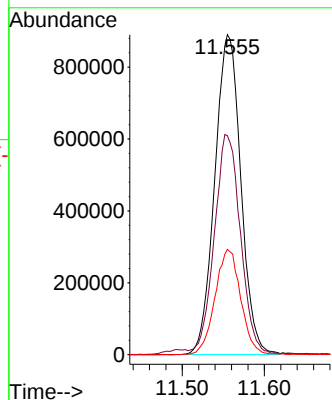
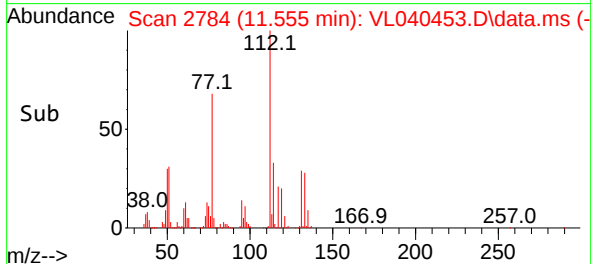
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDC0010EC



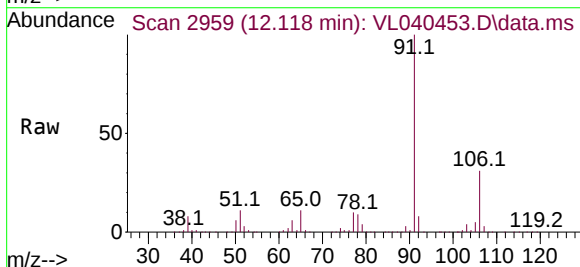
Tgt Ion: 112 Resp: 1967570  
Ion Ratio Lower Upper  
112 100  
77 68.2 54.7 82.1  
114 32.9 29.0 35.4

Manual Integrations  
APPROVED

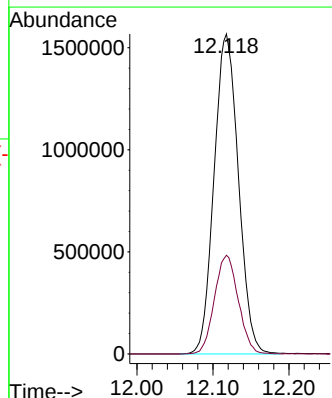
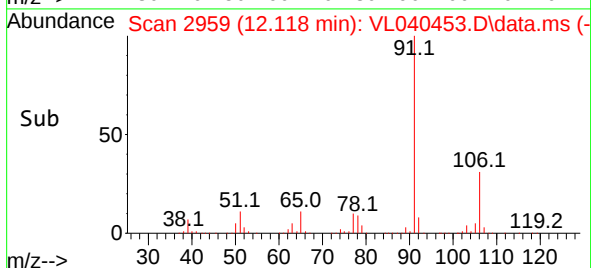
Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023

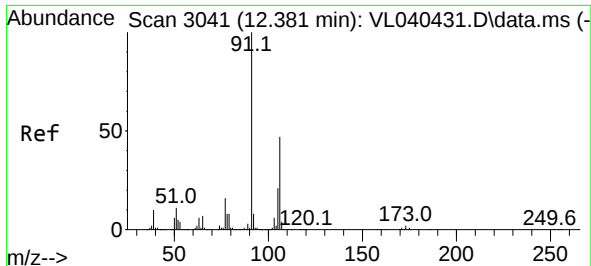


#58  
Ethyl Benzene  
Concen: 10.661 ppbv  
RT: 12.118 min Scan# 2959  
Delta R.T. 0.007 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17



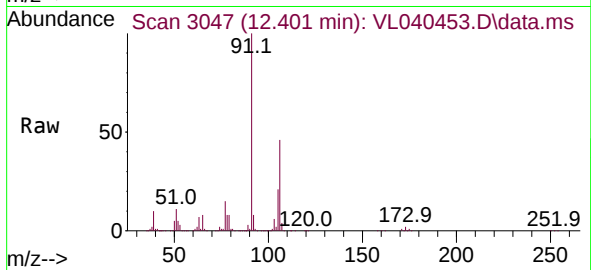
Tgt Ion: 91 Resp: 3483160  
Ion Ratio Lower Upper  
91 100  
106 30.9 23.8 35.8





#59  
m/p-Xylene  
Concen: 20.364 ppbv m  
RT: 12.401 min Scan# 3041  
Delta R.T. 0.003 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

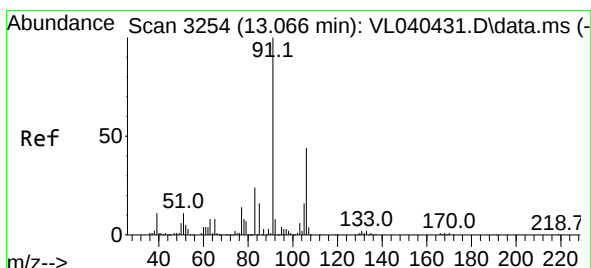
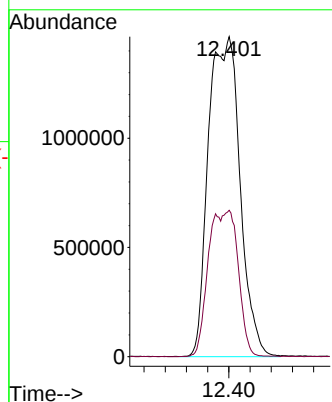
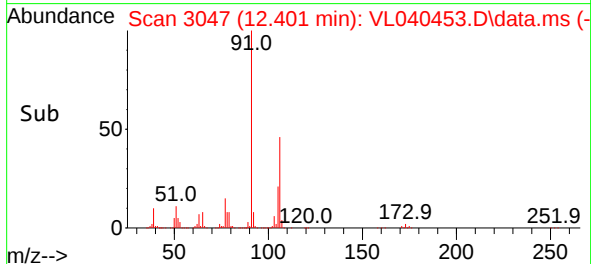
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC



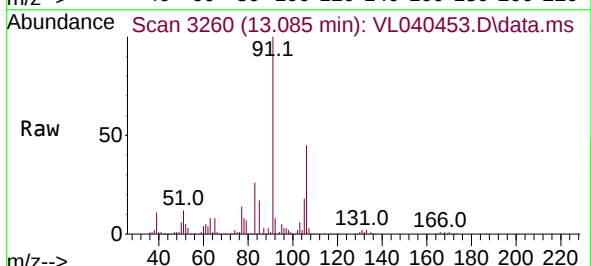
Tgt Ion: 91 Resp: 606851  
Ion Ratio Lower Upper  
91 100  
106 43.3 34.9 52.3

Manual Integrations  
APPROVED

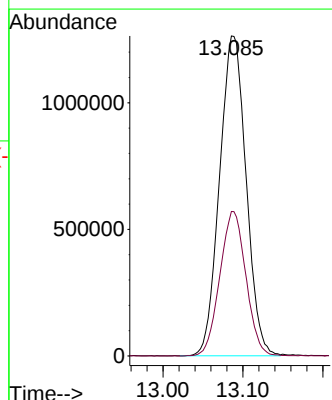
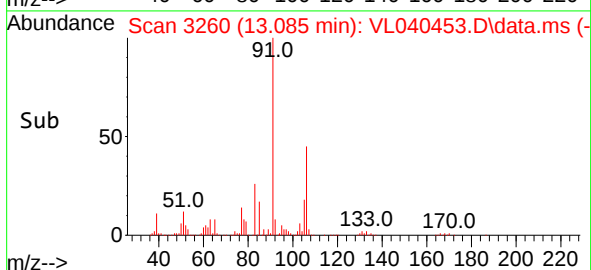
Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023

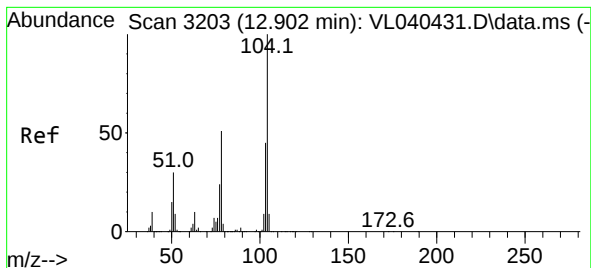


#60  
o-Xylene  
Concen: 10.278 ppbv  
RT: 13.085 min Scan# 3260  
Delta R.T. 0.003 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17



Tgt Ion: 91 Resp: 2915028  
Ion Ratio Lower Upper  
91 100  
106 44.5 21.8 65.4





#61

Styrene

Concen: 11.733 ppbv

RT: 12.928 min Scan# 31

Delta R.T. 0.007 min

Lab File: VL040453.D

Acq: 17 May 2023 1:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion:104 Resp: 168551

Ion Ratio Lower Upper

104 100

78 53.1 43.3 64.9

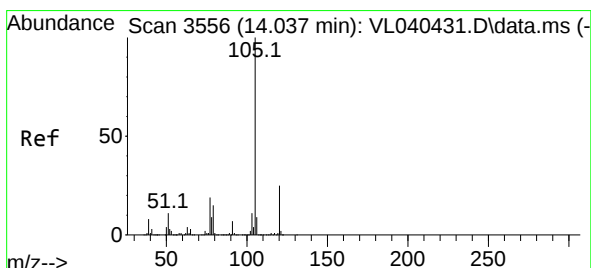
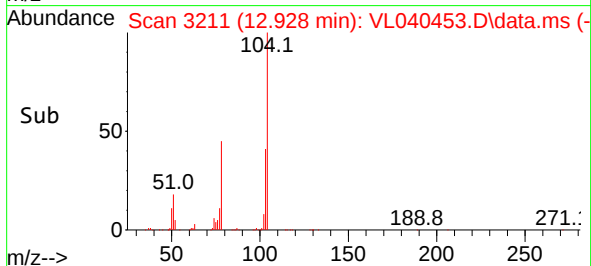
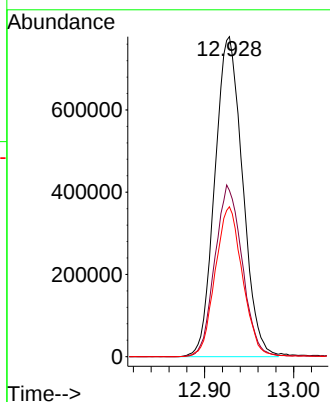
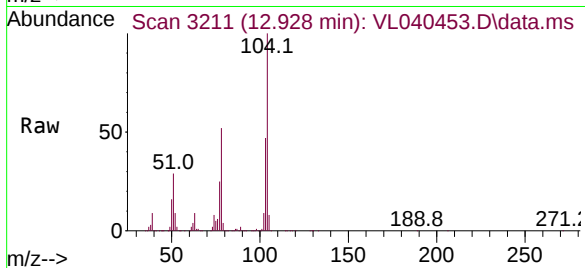
103 46.3 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/17/2023

Supervised By :Mahesh Dadoda 05/17/2023



#62

Isopropylbenzene

Concen: 9.853 ppbv

RT: 14.060 min Scan# 3563

Delta R.T. 0.003 min

Lab File: VL040453.D

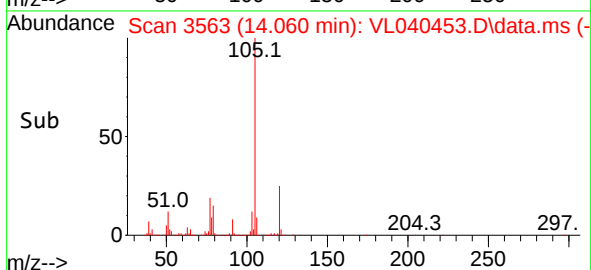
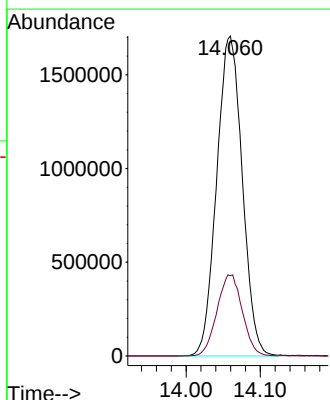
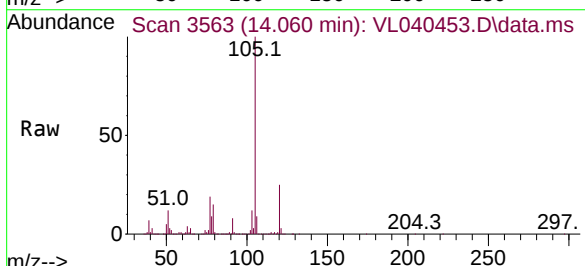
Acq: 17 May 2023 1:17

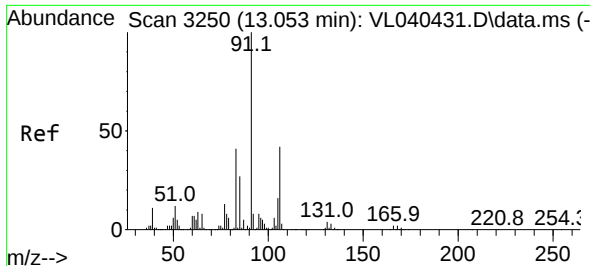
Tgt Ion:105 Resp: 4084381

Ion Ratio Lower Upper

105 100

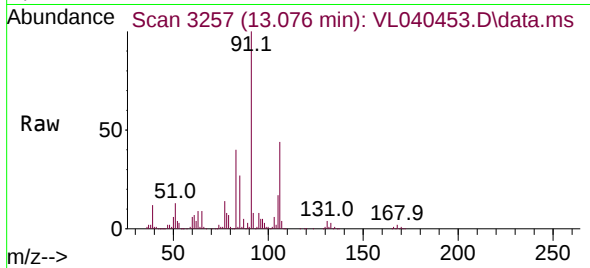
120 25.2 20.0 30.0





#63  
1,1,2,2-Tetrachloroethane  
Concen: 8.660 ppbv  
RT: 13.076 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

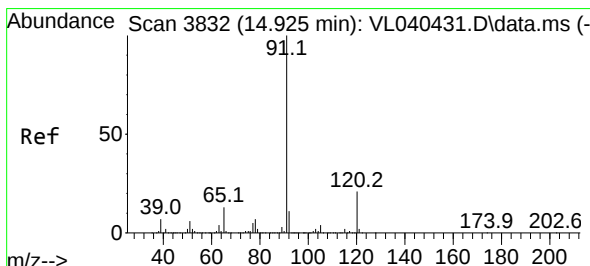
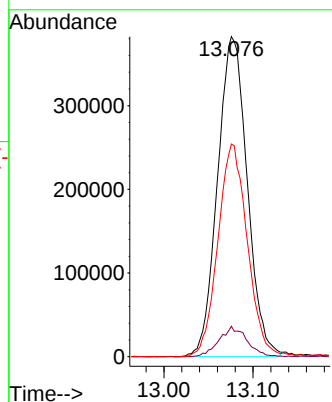
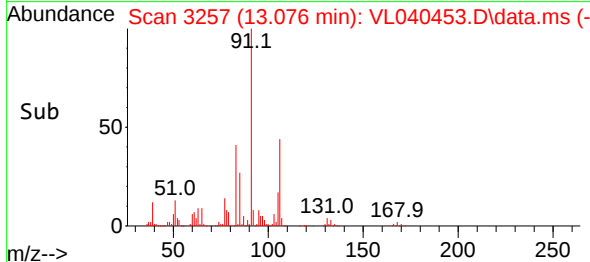
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC



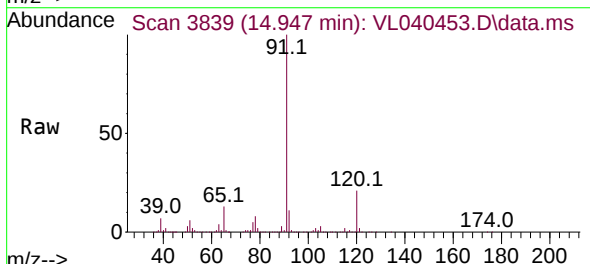
Tgt Ion: 83 Resp: 885979  
Ion Ratio Lower Upper  
83 100  
131 9.0 4.5 13.5  
85 66.0 33.0 99.0

Manual Integrations  
APPROVED

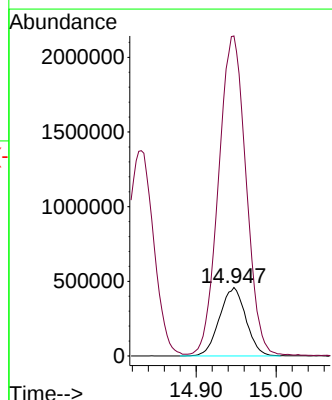
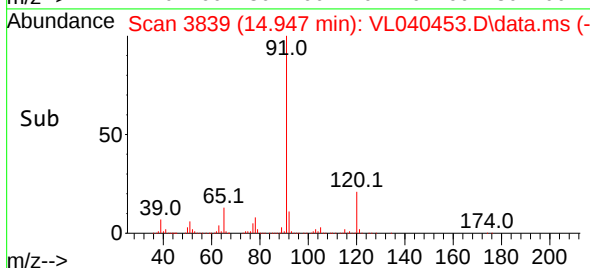
Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023

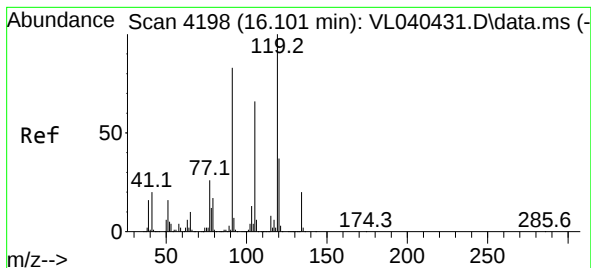


#64  
n-propylbenzene  
Concen: 10.236 ppbv  
RT: 14.947 min Scan# 3839  
Delta R.T. 0.003 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17



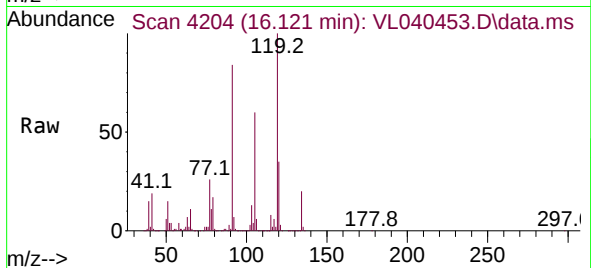
Tgt Ion:120 Resp: 1046914  
Ion Ratio Lower Upper  
120 100  
91 491.7 393.2 589.8





#65  
tert-Butylbenzene  
Concen: 9.814 ppbv  
RT: 16.121 min Scan# 4198  
Delta R.T. 0.003 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

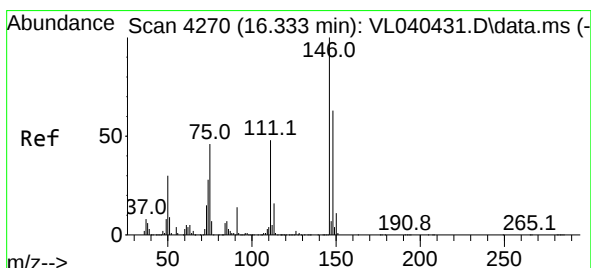
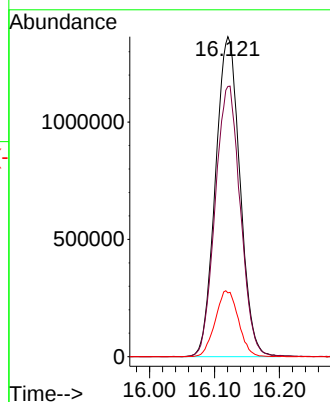
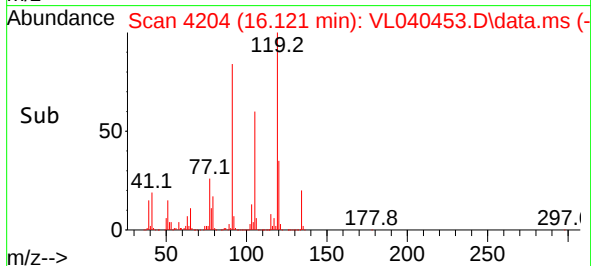
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC



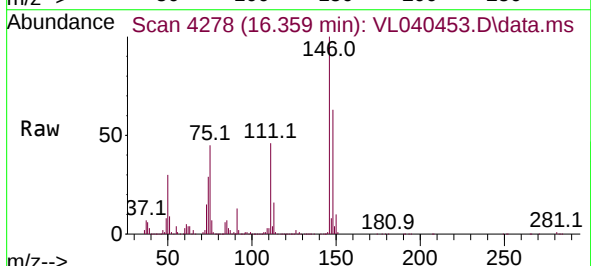
Tgt Ion:119 Resp: 356812  
Ion Ratio Lower Upper  
119 100  
91 86.9 69.8 104.6  
134 19.5 15.4 23.2

Manual Integrations  
APPROVED

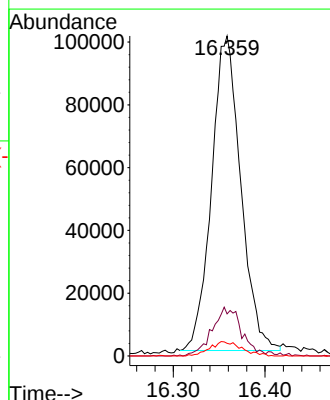
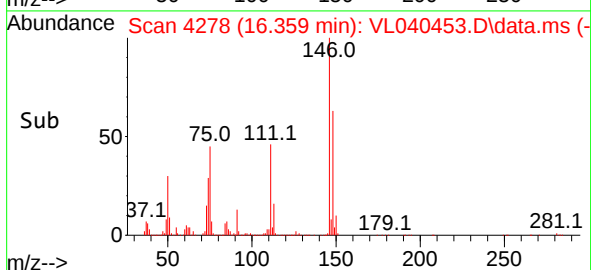
Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023

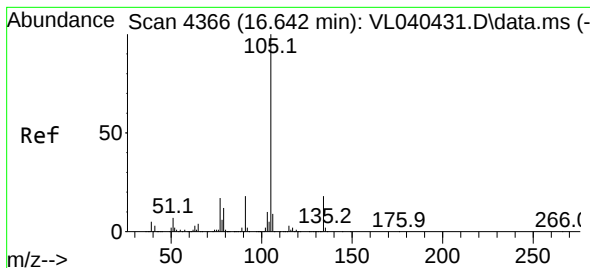


#66  
Benzyl Chloride  
Concen: 10.272 ppbv  
RT: 16.359 min Scan# 4278  
Delta R.T. 0.007 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17



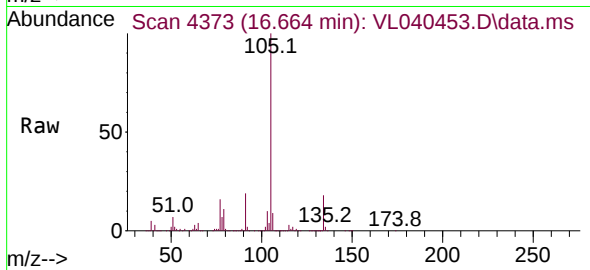
Tgt Ion: 91 Resp: 221584  
Ion Ratio Lower Upper  
91 100  
126 16.1 12.6 19.0  
128 5.0 3.9 5.9





#67  
 sec-Butylbenzene  
 Concen: 9.734 ppbv  
 RT: 16.664 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VL040453.D  
 Acq: 17 May 2023 1:17

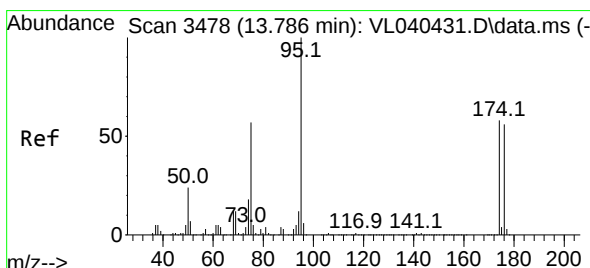
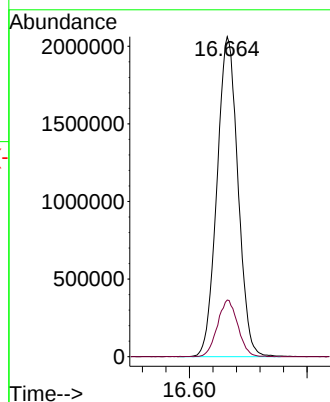
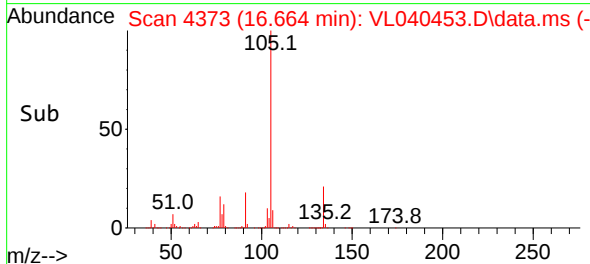
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC



Tgt Ion:105 Resp: 509649  
 Ion Ratio Lower Upper  
 105 100  
 134 17.3 14.1 21.1

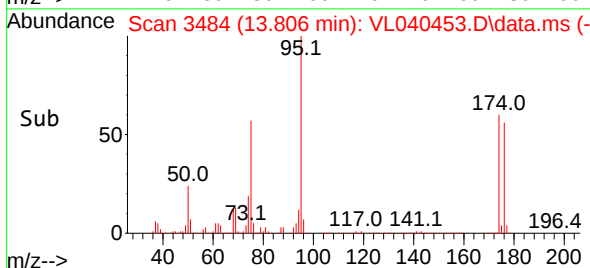
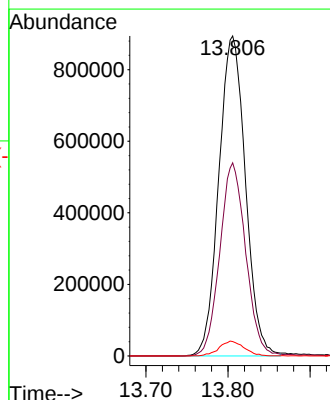
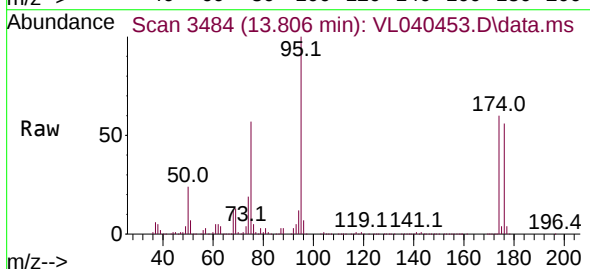
Manual Integrations  
 APPROVED

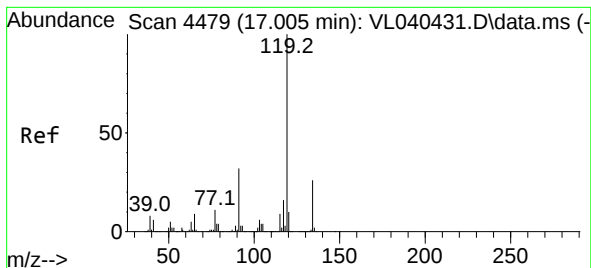
Reviewed By :Semsettin Yesilyurt 05/17/2023  
 Supervised By :Mahesh Dadoda 05/17/2023



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.706 ppbv  
 RT: 13.806 min Scan# 3484  
 Delta R.T. 0.007 min  
 Lab File: VL040453.D  
 Acq: 17 May 2023 1:17

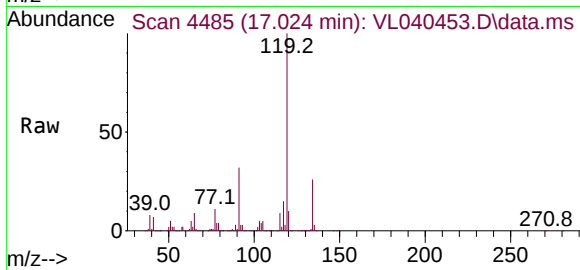
Tgt Ion: 95 Resp: 2014944  
 Ion Ratio Lower Upper  
 95 100  
 174 59.3 47.0 70.6  
 175 4.4 3.4 5.0





#69  
p-Isopropyltoluene  
Concen: 9.936 ppbv  
RT: 17.024 min Scan# 4479  
Delta R.T. 0.003 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

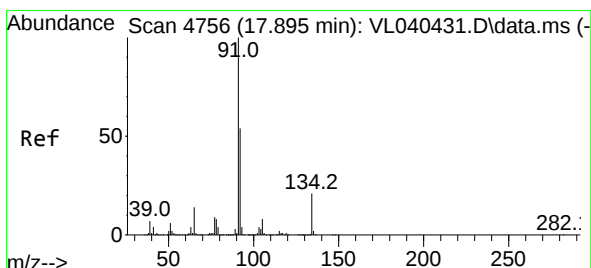
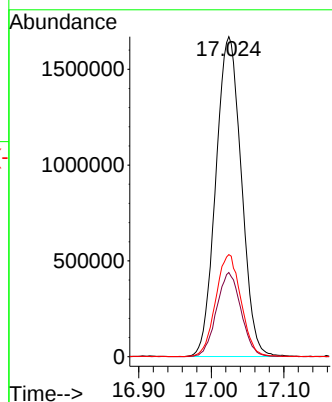
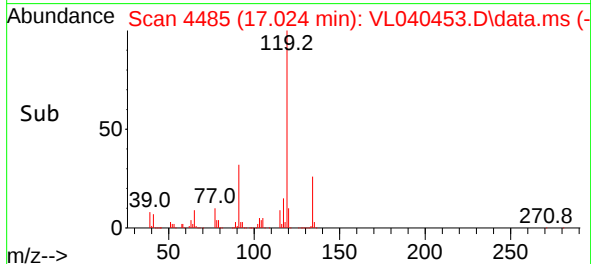
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC



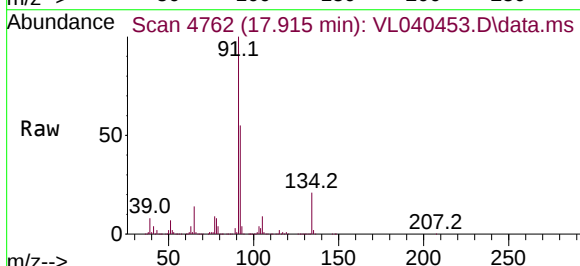
Tgt Ion:119 Resp: 4086552  
Ion Ratio Lower Upper  
119 100  
134 25.4 20.2 30.4  
91 31.5 25.4 38.0

Manual Integrations  
APPROVED

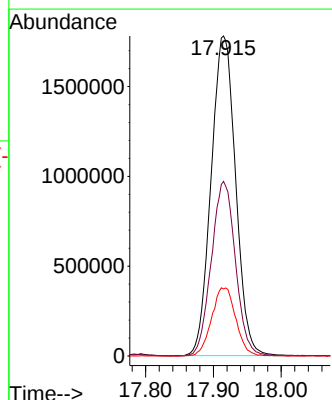
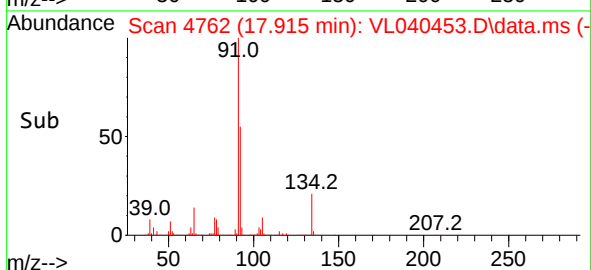
Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023

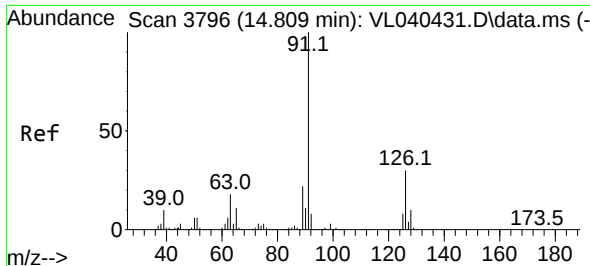


#70  
n-Butylbenzene  
Concen: 9.750 ppbv  
RT: 17.915 min Scan# 4762  
Delta R.T. 0.003 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17



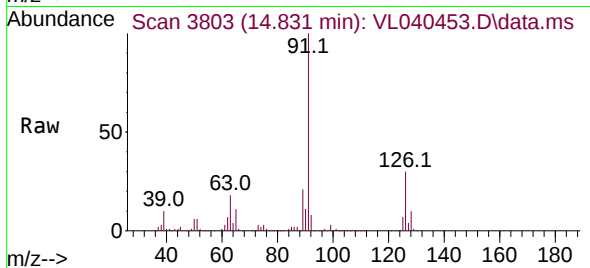
Tgt Ion: 91 Resp: 4469154  
Ion Ratio Lower Upper  
91 100  
92 53.7 43.2 64.8  
134 21.1 16.9 25.3





#71  
2-Chlorotoluene  
Concen: 10.087 ppbv  
RT: 14.831 min Scan# 3803  
Delta R.T. 0.007 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

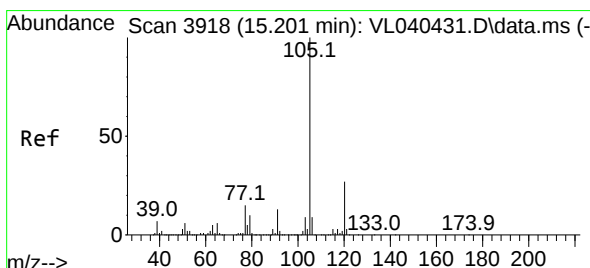
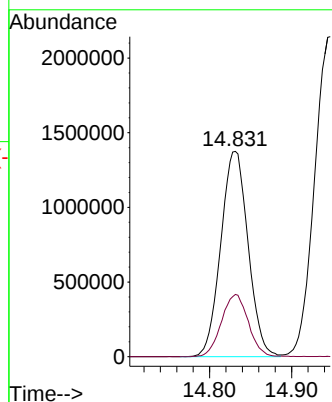
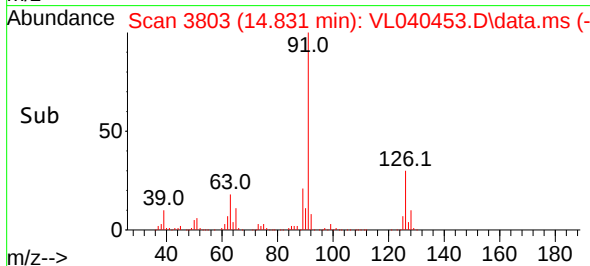
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC



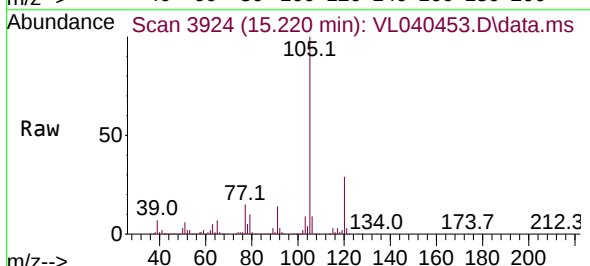
Tgt Ion: 91 Resp: 3181379  
Ion Ratio Lower Upper  
91 100  
126 29.9 12.0 48.0

Manual Integrations  
APPROVED

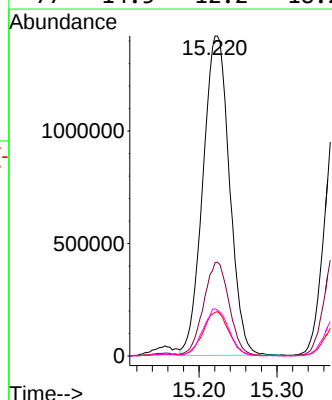
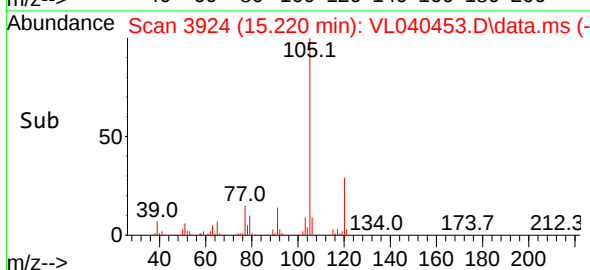
Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023

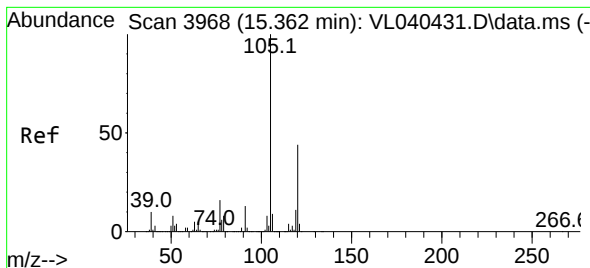


#72  
4-Ethyltoluene  
Concen: 10.474 ppbv  
RT: 15.220 min Scan# 3924  
Delta R.T. 0.000 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17



Tgt Ion:105 Resp: 3368446  
Ion Ratio Lower Upper  
105 100  
120 29.3 23.8 35.8  
91 14.3 11.0 16.4  
77 14.5 12.2 18.2





#73

1,3,5-Trimethylbenzene

Concen: 10.076 ppbv

RT: 15.381 min Scan# 3968

Delta R.T. 0.007 min

Lab File: VL040453.D

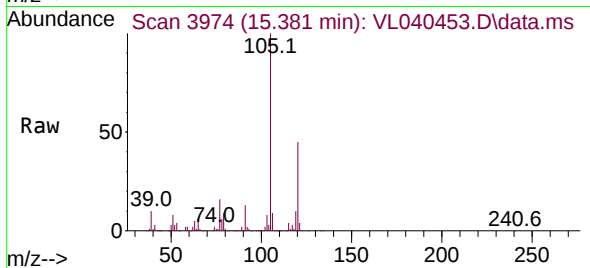
Acq: 17 May 2023 1:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC



Tgt Ion:105 Resp: 2974740

Ion Ratio Lower Upper

105 100

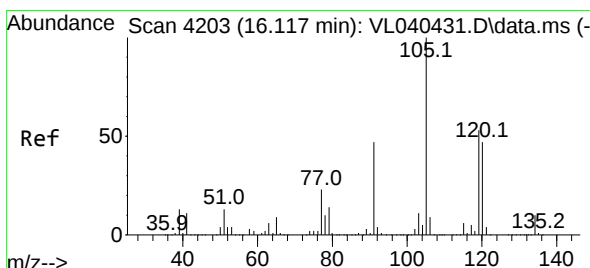
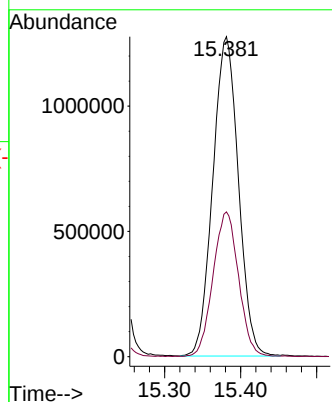
120 45.2 35.2 52.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/17/2023

Supervised By :Mahesh Dadoda 05/17/2023



#74

1,2,4-Trimethylbenzene

Concen: 9.594 ppbv

RT: 16.140 min Scan# 4210

Delta R.T. 0.007 min

Lab File: VL040453.D

Acq: 17 May 2023 1:17

Tgt Ion:105 Resp: 3258781

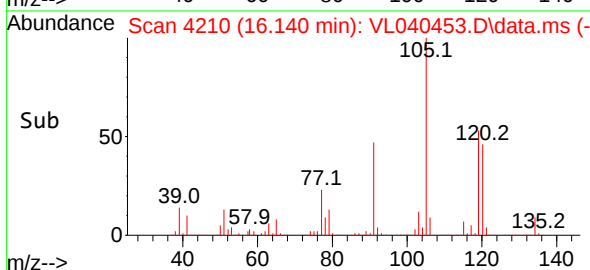
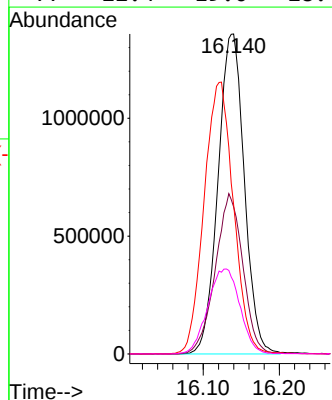
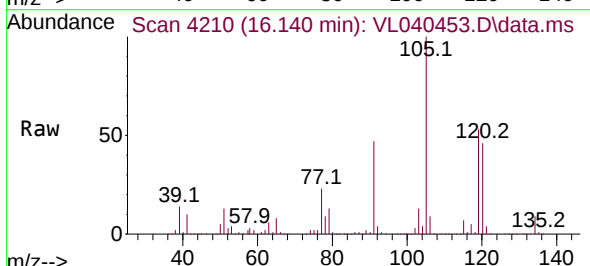
Ion Ratio Lower Upper

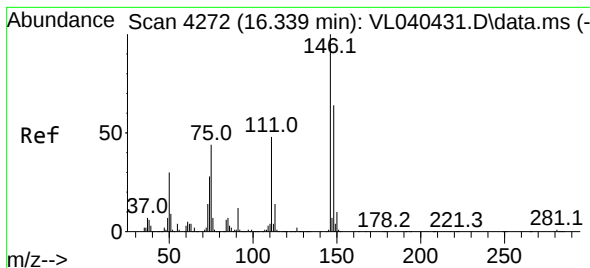
105 100

120 45.8 38.1 57.1

91 46.2 40.2 60.2

77 22.4 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 9.622 ppbv

RT: 16.362 min Scan# 4322

Delta R.T. 0.003 min

Lab File: VL040453.D

Acq: 17 May 2023 1:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion:146 Resp: 1798170

Ion Ratio Lower Upper

146 100

111 48.7 24.6 74.0

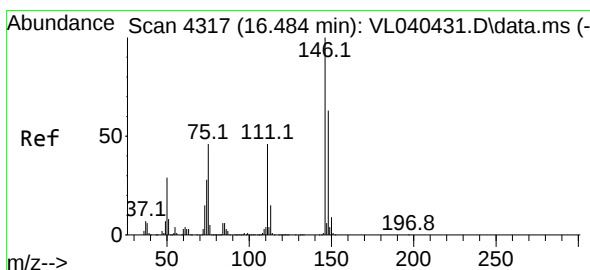
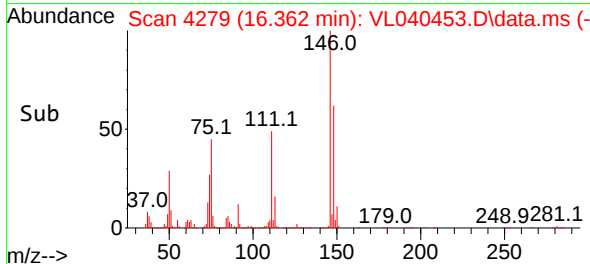
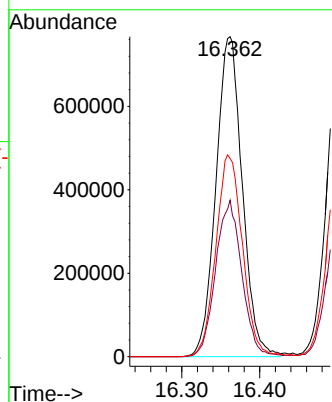
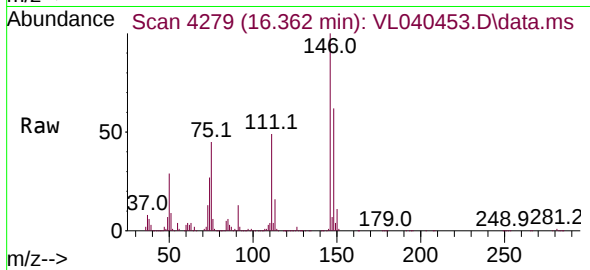
148 63.9 32.1 96.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/17/2023

Supervised By :Mahesh Dadoda 05/17/2023



#76

1,4-Dichlorobenzene

Concen: 9.721 ppbv

RT: 16.500 min Scan# 4322

Delta R.T. 0.000 min

Lab File: VL040453.D

Acq: 17 May 2023 1:17

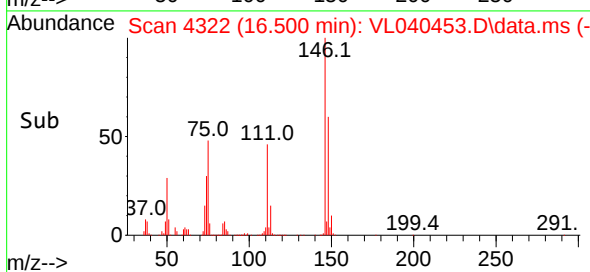
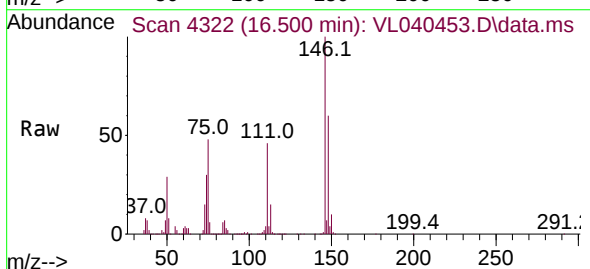
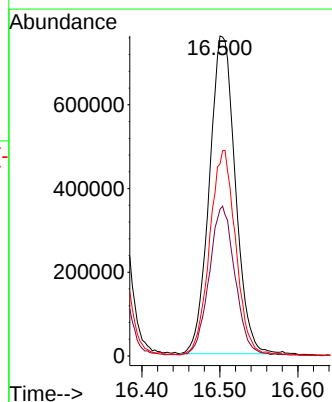
Tgt Ion:146 Resp: 1757044

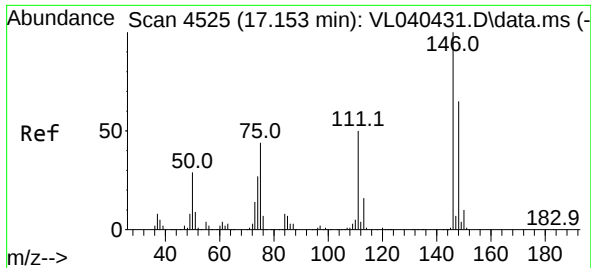
Ion Ratio Lower Upper

146 100

111 47.2 24.0 72.0

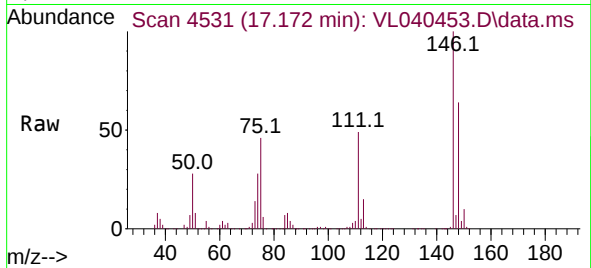
148 65.6 32.5 97.4





#77  
1,2-Dichlorobenzene  
Concen: 9.547 ppbv  
RT: 17.172 min Scan# 4531  
Delta R.T. 0.003 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

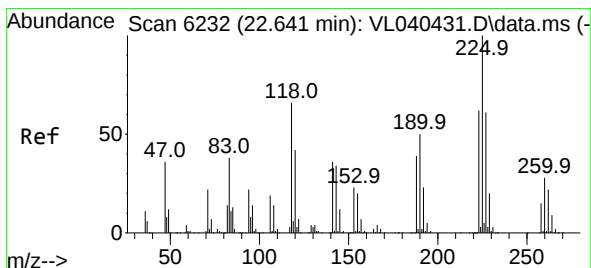
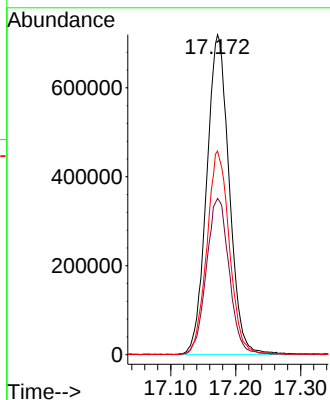
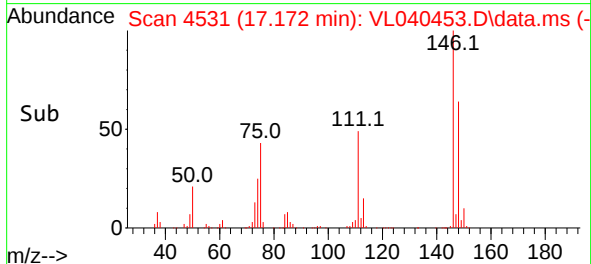
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC



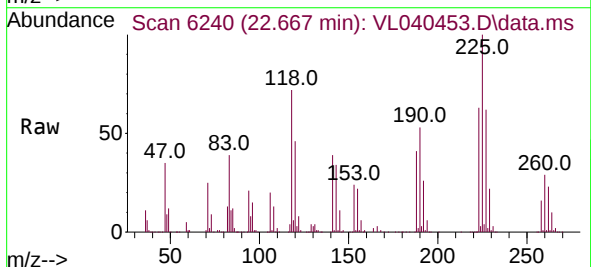
Tgt Ion:146 Resp: 172853  
Ion Ratio Lower Upper  
146 100  
111 49.7 25.2 75.6  
148 63.7 32.1 96.5

Manual Integrations  
APPROVED

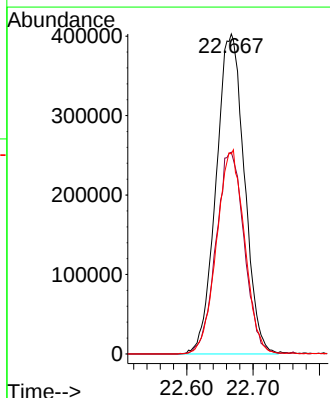
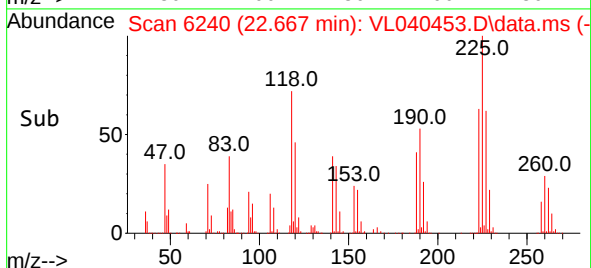
Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023

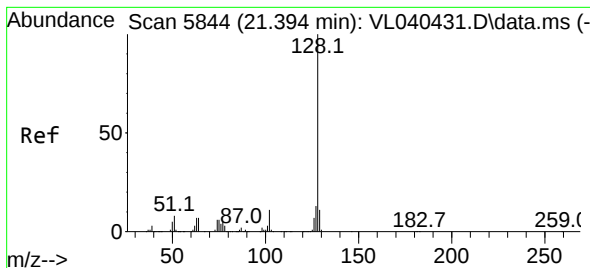


#78  
Hexachloro-1,3-Butadiene  
Concen: 8.799 ppbv  
RT: 22.667 min Scan# 6240  
Delta R.T. 0.003 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17



Tgt Ion:225 Resp: 1192012  
Ion Ratio Lower Upper  
225 100  
223 63.4 51.2 76.8  
227 63.1 51.0 76.6





#79

Naphthalene

Concen: 12.008 ppbv

RT: 21.416 min Scan# 5851

Delta R.T. 0.000 min

Lab File: VL040453.D

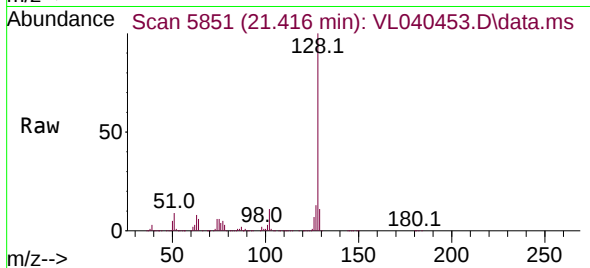
Acq: 17 May 2023 1:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC



Tgt Ion:128 Resp: 246592

Ion Ratio Lower Upper

128 100

127 12.6 10.3 15.5

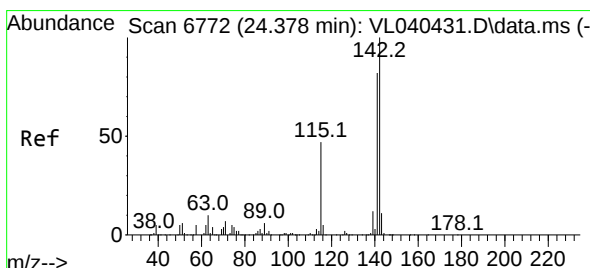
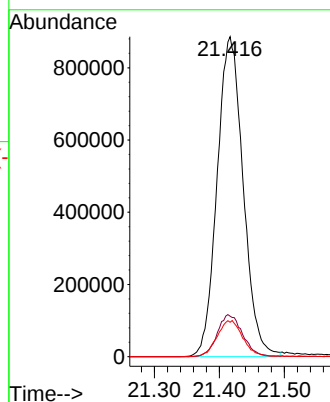
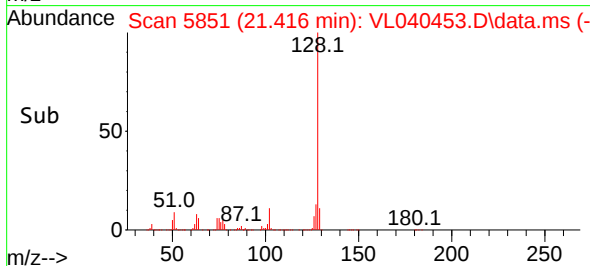
129 10.8 9.0 13.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/17/2023

Supervised By :Mahesh Dadoda 05/17/2023



#80

Naphthalene,2-methyl-

Concen: 13.204 ppbv

RT: 24.397 min Scan# 6778

Delta R.T. 0.000 min

Lab File: VL040453.D

Acq: 17 May 2023 1:17

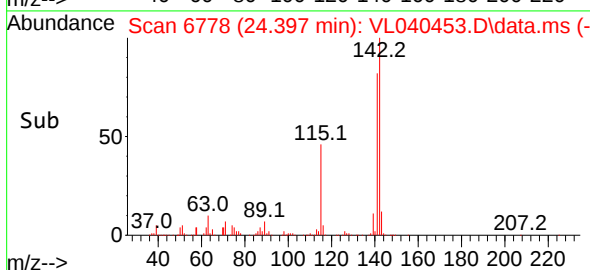
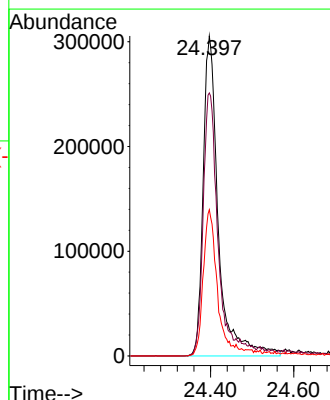
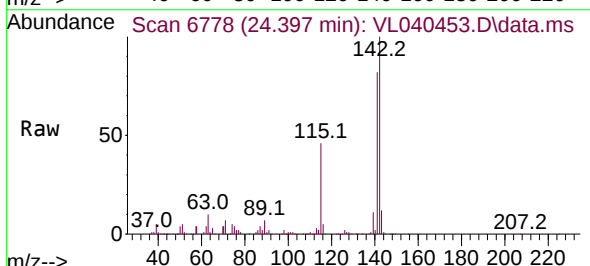
Tgt Ion:142 Resp: 776418

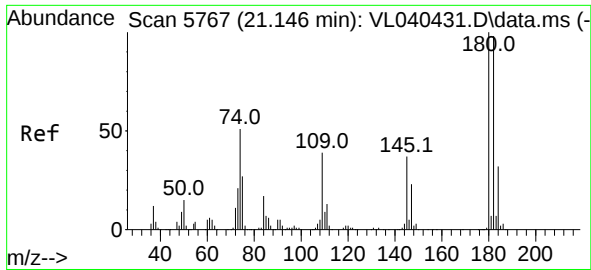
Ion Ratio Lower Upper

142 100

141 83.3 66.2 99.2

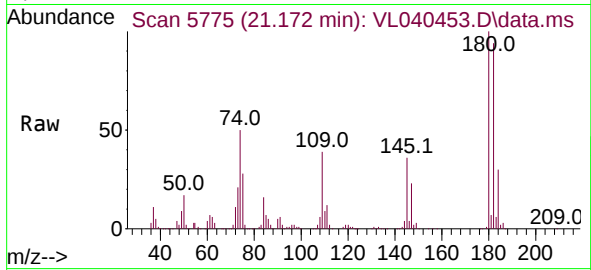
115 43.7 36.8 55.2





#81  
1,2,4-Trichlorobenzene  
Concen: 10.219 ppbv  
RT: 21.172 min Scan# 51  
Delta R.T. 0.003 min  
Lab File: VL040453.D  
Acq: 17 May 2023 1:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC



Tgt Ion:180 Resp: 1299078  
Ion Ratio Lower Upper  
180 100  
182 96.4 77.0 115.6  
184 30.6 24.7 37.1

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 05/17/2023  
Supervised By :Mahesh Dadoda 05/17/2023

