

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL012725\  
 Data File : VL041948.D  
 Acq On : 27 Jan 2025 13:05  
 Operator : SY/MD  
 Sample : Q1168-14 0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT1-2025

Quant Time: Jan 28 02:35:12 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Tue Jan 14 23:15:42 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/30/2025  
 Supervised By : Mahesh Dadoda 01/30/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.800  | 49    | 143717   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.978  | 114   | 400111   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.898  | 117   | 343866   | 10.000   | ppbv   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.390 | 95    | 264875   | 9.780    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 97.800%  |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.502  | 85    | 11532    | 0.589    | ppbv   | 95       |
| 3) Chlorodifluoromethane      | 1.479  | 51    | 12028    | 0.587    | ppbv   | 99       |
| 4) Chloromethane              | 1.538  | 50    | 4212     | 0.572    | ppbv   | 92       |
| 5) Vinyl Chloride             | 1.586  | 62    | 4205     | 0.564    | ppbv   | 95       |
| 6) Bromomethane               | 1.670  | 94    | 1904     | 0.536    | ppbv # | 80       |
| 7) Chloroethane               | 1.709  | 64    | 1865     | 0.643    | ppbv # | 88       |
| 8) Dichlorotetrafluoroethane  | 1.560  | 85    | 8792     | 0.514    | ppbv   | 88       |
| 9) Propene                    | 1.489  | 41    | 4873     | 0.577    | ppbv   | 95       |
| 10) Heptane                   | 5.001  | 43    | 10432m   | 0.462    | ppbv   |          |
| 11) Trichlorofluoromethane    | 1.884  | 101   | 10561    | 0.519    | ppbv   | 96       |
| 12) 1,1,2-Trichlorotrifluo... | 2.149  | 101   | 9062     | 0.568    | ppbv   | 98       |
| 13) Ethanol                   | 1.729  | 45    | 731m     | 1.181    | ppbv   |          |
| 14) Bromoethene               | 1.787  | 108   | 2957     | 0.506    | ppbv # | 93       |
| 15) Acetone                   | 1.845  | 43    | 12074    | 0.699    | ppbv   | 94       |
| 16) 1,3-Butadiene             | 1.612  | 39    | 4366     | 0.564    | ppbv   | 96       |
| 17) tert-Butyl alcohol        | 2.052  | 59    | 10623    | 0.500    | ppbv # | 91       |
| 18) 1,1-Dichloroethene        | 2.043  | 96    | 3760     | 0.523    | ppbv   | 81       |
| 19) Isopropyl Alcohol         | 1.894  | 45    | 6978     | 0.682    | ppbv # | 32       |
| 20) Methylene Chloride        | 2.068  | 84    | 4488     | 0.658    | ppbv # | 80       |
| 21) Allyl Chloride            | 2.104  | 41    | 6128     | 0.513    | ppbv # | 84       |
| 22) trans-1,2-Dichloroethene  | 2.347  | 96    | 4552m    | 0.561    | ppbv   |          |
| 23) Vinyl Acetate             | 2.473  | 43    | 5081     | 0.594    | ppbv # | 82       |
| 24) 1,1-Dichloroethane        | 2.418  | 63    | 9332     | 0.594    | ppbv   | 95       |
| 25) Ethyl Acetate             | 2.852  | 43    | 24423    | 0.525    | ppbv   | 99       |
| 26) Hexane                    | 2.836  | 57    | 9025     | 0.490    | ppbv # | 82       |
| 27) Carbon Disulfide          | 2.159  | 76    | 9531     | 0.523    | ppbv # | 32       |
| 28) Methyl tert-Butyl Ether   | 2.454  | 73    | 6211     | 0.441    | ppbv   | 96       |
| 29) Chloroform                | 2.861  | 83    | 15948    | 0.548    | ppbv   | 97       |
| 30) Cyclohexane               | 3.875  | 84    | 7250     | 0.454    | ppbv   | 95       |
| 31) cis-1,2-Dichloroethene    | 2.732  | 61    | 10369    | 0.535    | ppbv   | 97       |
| 32) 1,1,1-Trichloroethane     | 3.383  | 97    | 14275    | 0.513    | ppbv   | 96       |
| 34) 2-Butanone                | 2.573  | 43    | 16425    | 0.646    | ppbv   | 99       |
| 35) Carbon Tetrachloride      | 3.777  | 117   | 13934    | 0.554    | ppbv   | 96       |
| 36) Benzene                   | 3.674  | 78    | 19789    | 0.539    | ppbv # | 91       |
| 37) 1,2-Dichloroethane        | 3.234  | 62    | 12734    | 0.618    | ppbv   | 98       |
| 38) Trichloroethene           | 4.567  | 130   | 8591m    | 0.590    | ppbv   |          |
| 39) 1,2-Dichloropropane       | 4.334  | 63    | 8234m    | 0.640    | ppbv   |          |
| 40) 1,4-Dioxane               | 4.635  | 88    | 3744m    | 0.576    | ppbv   |          |
| 41) Tetrahydrofuran           | 3.082  | 42    | 7516     | 0.544    | ppbv   | 98       |
| 42) Bromodichloromethane      | 4.509  | 83    | 15063    | 0.545    | ppbv   | 94       |
| 43) Methyl Methacrylate       | 4.910  | 69    | 6461m    | 0.474    | ppbv   |          |
| 44) 2,2,4-Trimethylpentane    | 4.664  | 57    | 30655    | 0.516    | ppbv   | 94       |
| 45) t-1,3-Dichloropropene     | 6.441  | 75    | 5325m    | 0.417    | ppbv   |          |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL012725\  
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 Operator : SY/MD  
 Sample : Q1168-14 0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT1-2025

Quant Time: Jan 28 02:35:12 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Tue Jan 14 23:15:42 2025  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/30/2025  
 Supervised By : Mahesh Dadoda 01/30/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.626  | 75   | 7447m    | 0.444 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.603  | 97   | 8122m    | 0.595 | ppbv   |          |
| 48) Dibromochloromethane      | 7.409  | 129  | 11366    | 0.540 | ppbv   | 94       |
| 49) Bromoform                 | 9.497  | 173  | 7903     | 0.457 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.800  | 43   | 17140m   | 0.493 | ppbv   |          |
| 51) 2-Hexanone                | 7.467  | 43   | 11900m   | 0.446 | ppbv   |          |
| 52) Tetrachloroethene         | 8.238  | 164  | 6982     | 0.549 | ppbv   | 86       |
| 53) Toluene                   | 6.953  | 91   | 17686    | 0.442 | ppbv   | 93       |
| 54) 1,2-Dibromoethane         | 7.671  | 107  | 9762     | 0.520 | ppbv   | 87       |
| 56) 1,1,1,2-Tetrachloroethane | 8.943  | 131  | 9768     | 0.569 | ppbv # | 1        |
| 57) Chlorobenzene             | 8.937  | 112  | 20248    | 0.638 | ppbv # | 90       |
| 58) Ethyl Benzene             | 9.367  | 91   | 21087    | 0.392 | ppbv   | 96       |
| 59) m/p-Xylene                | 9.561  | 91   | 37787m   | 0.877 | ppbv   |          |
| 60) o-Xylene                  | 9.979  | 91   | 17992    | 0.421 | ppbv   | 96       |
| 61) Styrene                   | 9.888  | 104  | 6941     | 0.362 | ppbv   | 89       |
| 62) Isopropylbenzene          | 10.552 | 105  | 30211    | 0.457 | ppbv   | 97       |
| 63) 1,1,2,2-Tetrachloroethane | 9.979  | 83   | 16675    | 0.610 | ppbv   | 96       |
| 64) n-propylbenzene           | 11.002 | 120  | 7183     | 0.430 | ppbv   | 84       |
| 65) tert-Butylbenzene         | 11.545 | 119  | 27122    | 0.450 | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.626 | 91   | 1689     | 0.453 | ppbv # | 89       |
| 67) sec-Butylbenzene          | 11.782 | 105  | 37929    | 0.457 | ppbv   | 96       |
| 69) p-Isopropyltoluene        | 11.937 | 119  | 28553    | 0.418 | ppbv   | 97       |
| 70) n-Butylbenzene            | 12.296 | 91   | 27980    | 0.413 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.911 | 91   | 21435    | 0.438 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.138 | 105  | 20501    | 0.401 | ppbv   | 96       |
| 73) 1,3,5-Trimethylbenzene    | 11.215 | 105  | 19241    | 0.426 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.549 | 105  | 22706    | 0.464 | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 11.617 | 146  | 16524    | 0.570 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.685 | 146  | 15923    | 0.562 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.960 | 146  | 17275    | 0.601 | ppbv   | 97       |
| 78) Hexachloro-1,3-Butadiene  | 13.892 | 225  | 14095    | 0.598 | ppbv   | 99       |
| 79) Naphthalene               | 13.526 | 128  | 21208    | 0.431 | ppbv # | 96       |
| 80) Naphthalene,2-methyl-     | 14.471 | 142  | 6592     | 0.282 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 13.455 | 180  | 11777    | 0.490 | ppbv   | 97       |

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

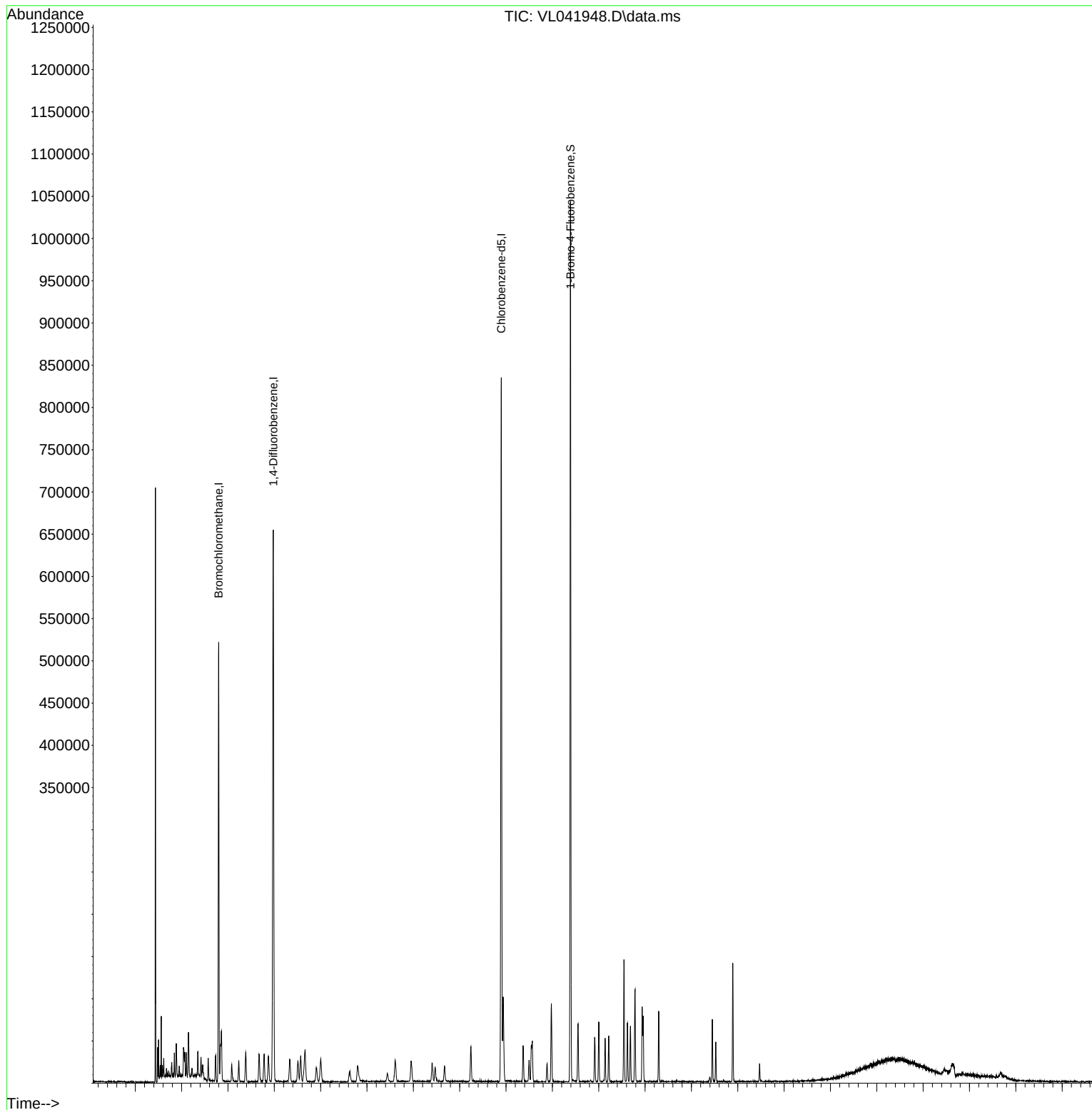
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL012725\  
Data File : VL041948.D  
Acq On : 27 Jan 2025 13:05  
Operator : SY/MD  
Sample : Q1168-14 0.5  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

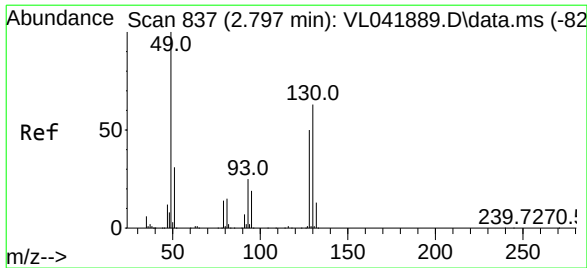
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025

Quant Time: Jan 28 02:35:12 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Tue Jan 14 23:15:42 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

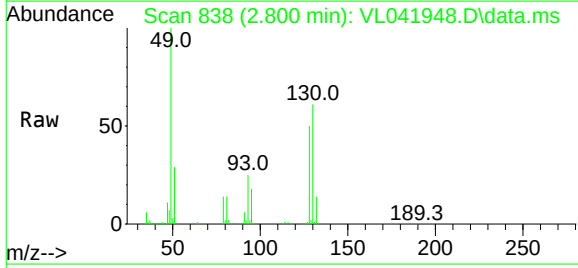
Reviewed By : Semsettin Yesilyurt 01/30/2025  
Supervised By : Mahesh Dadoda 01/30/2025





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.800 min Scan# 837  
Delta R.T. 0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

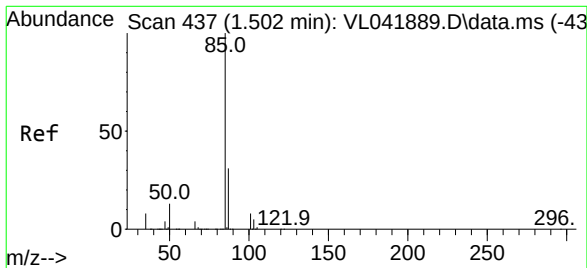
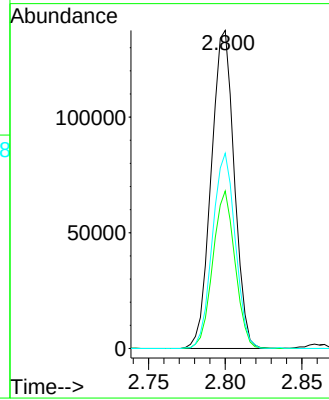
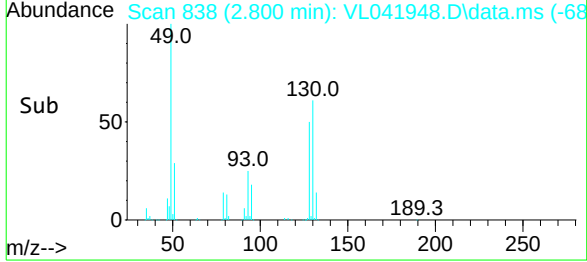
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025



Tgt Ion: 49 Resp: 143717  
Ion Ratio Lower Upper  
49 100  
128 47.7 24.3 73.0  
130 60.9 31.1 93.2

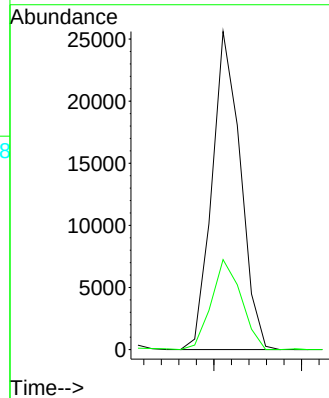
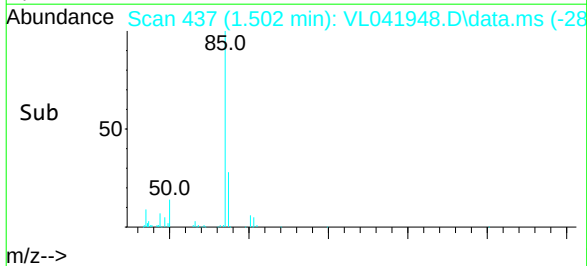
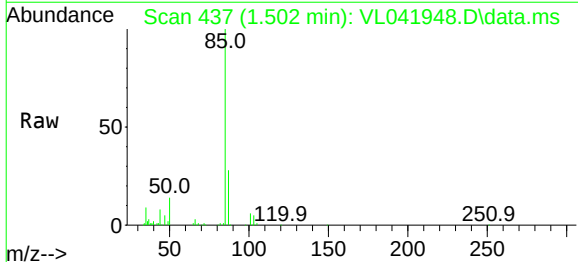
Manual Integrations  
APPROVED

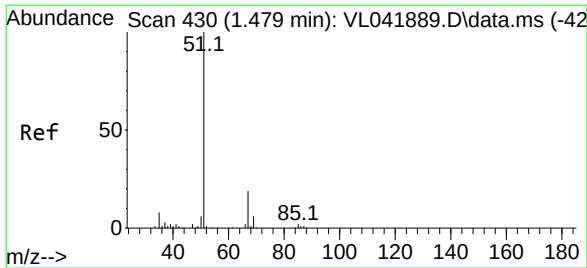
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#2  
Dichlorodifluoromethane  
Concen: 0.589 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.000 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

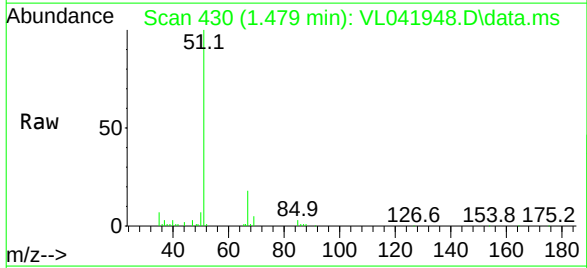
Tgt Ion: 85 Resp: 11532  
Ion Ratio Lower Upper  
85 100  
87 28.3 24.9 37.3





#3  
Chlorodifluoromethane  
Concen: 0.587 ppbv  
RT: 1.479 min Scan# 430  
Delta R.T. 0.000 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

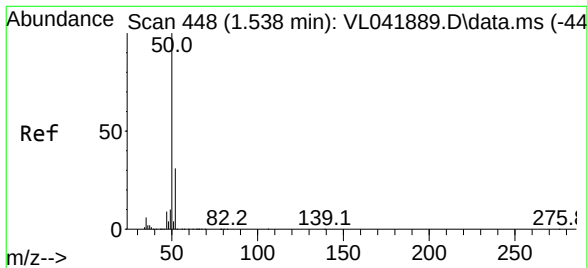
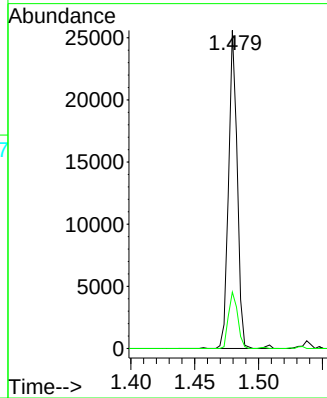
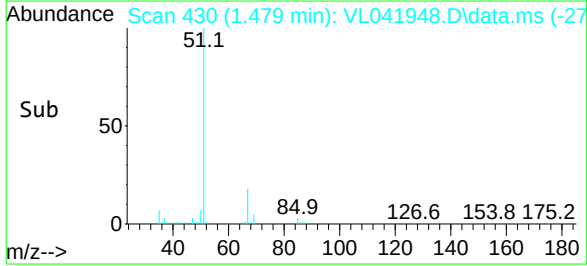
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025



Tgt Ion: 51 Resp: 12028  
Ion Ratio Lower Upper  
51 100  
67 19.1 15.0 22.4

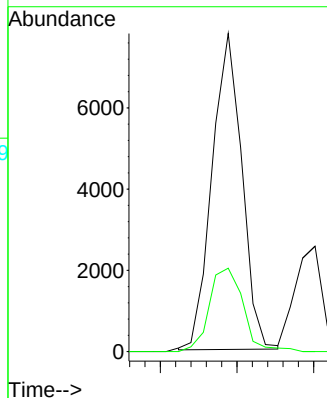
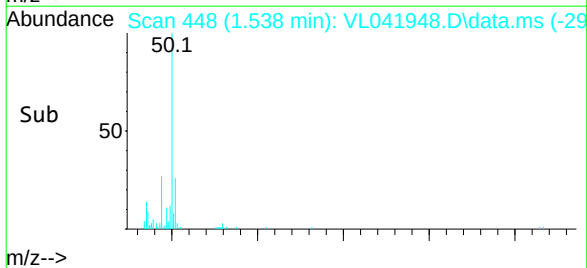
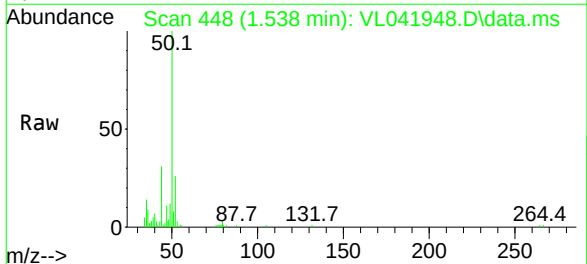
Manual Integrations  
APPROVED

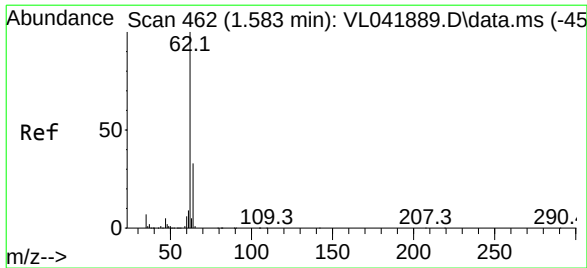
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#4  
Chloromethane  
Concen: 0.572 ppbv  
RT: 1.538 min Scan# 448  
Delta R.T. 0.000 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

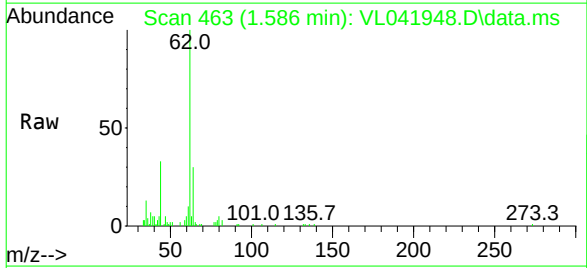
Tgt Ion: 50 Resp: 4212  
Ion Ratio Lower Upper  
50 100  
52 26.5 24.6 36.8





#5  
 Vinyl Chloride  
 Concen: 0.564 ppbv  
 RT: 1.586 min Scan# 462  
 Delta R.T. 0.003 min  
 Lab File: VL041948.D  
 Acq: 27 Jan 2025 13:05

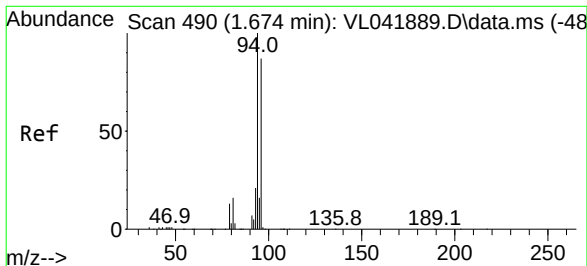
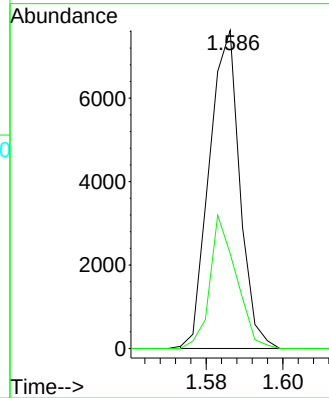
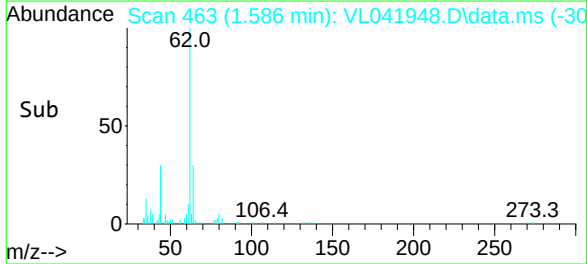
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT1-2025



Tgt Ion: 62 Resp: 4205  
 Ion Ratio Lower Upper  
 62 100  
 64 29.8 26.1 39.1

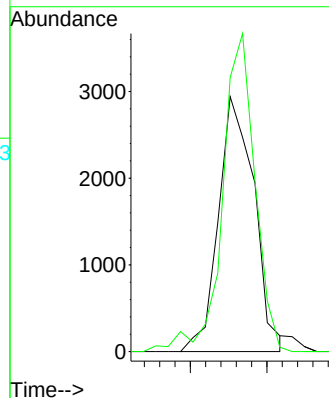
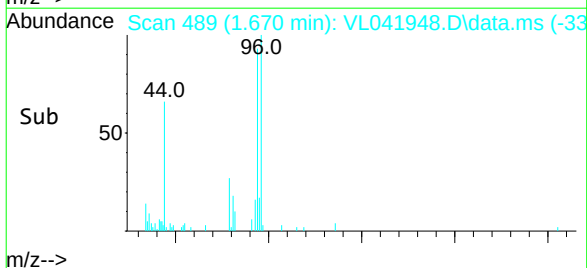
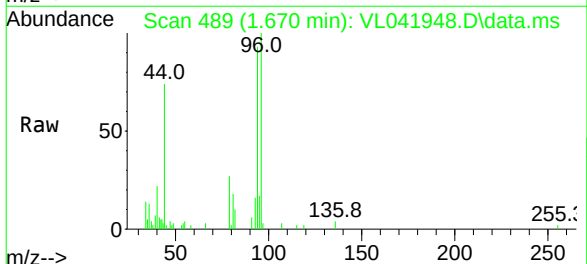
Manual Integrations  
 APPROVED

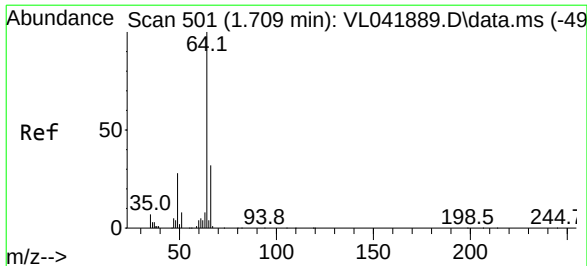
Reviewed By :Semsettin Yesilyurt 01/30/2025  
 Supervised By :Mahesh Dadoda 01/30/2025



#6  
 Bromomethane  
 Concen: 0.536 ppbv  
 RT: 1.670 min Scan# 489  
 Delta R.T. -0.003 min  
 Lab File: VL041948.D  
 Acq: 27 Jan 2025 13:05

Tgt Ion: 94 Resp: 1904  
 Ion Ratio Lower Upper  
 94 100  
 96 105.8 69.5 104.3#





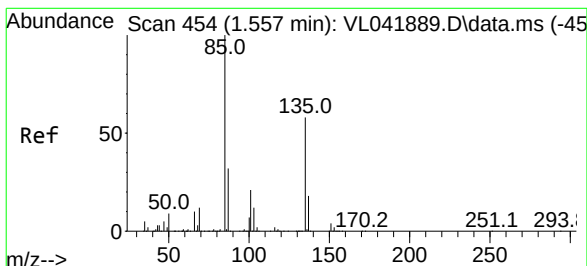
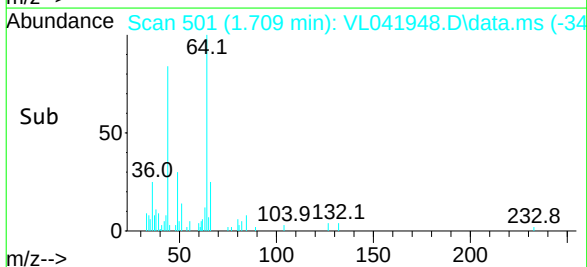
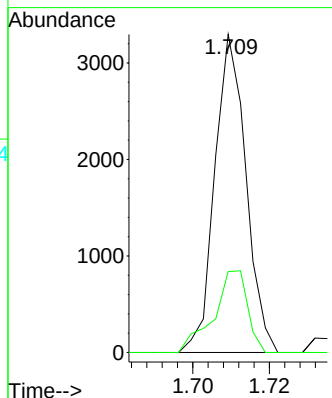
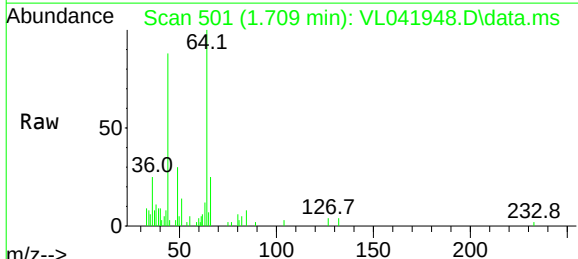
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Chloroethane  
Concen: 0.643 ppbv  
RT: 1.709 min Scan# 501  
Delta R.T. 0.000 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

Instrument : MSVOA\_1  
ClientSampleId :  
LOQ-AIR-02-QT1-2025

Tgt Ion: 64 Resp: 1865  
Ion Ratio Lower Upper  
64 100  
66 25.5 25.7 38.5#

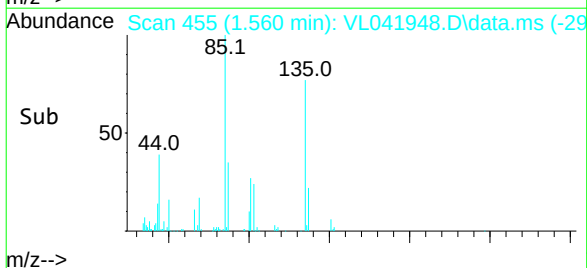
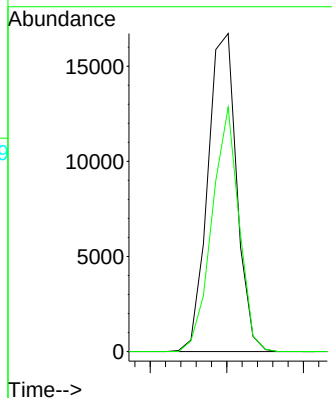
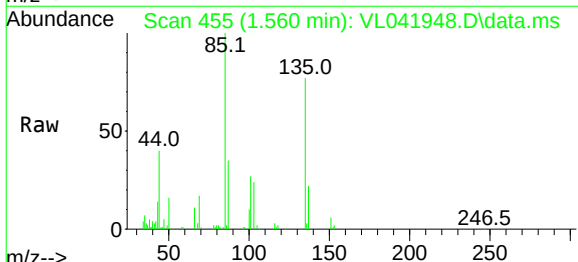
Manual Integrations  
APPROVED

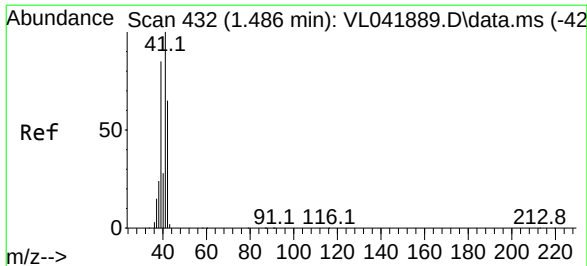
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#8  
Dichlorotetrafluoroethane  
Concen: 0.514 ppbv  
RT: 1.560 min Scan# 455  
Delta R.T. 0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

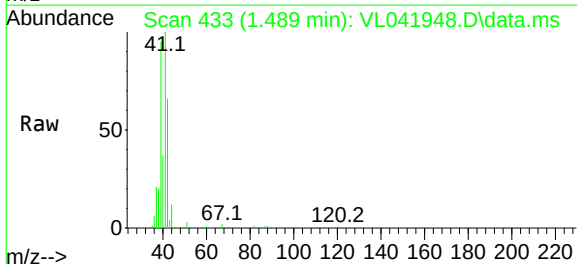
Tgt Ion: 85 Resp: 8792  
Ion Ratio Lower Upper  
85 100  
135 71.5 50.0 75.0





#9  
 Propene  
 Concen: 0.577 ppbv  
 RT: 1.489 min Scan# 43  
 Delta R.T. 0.003 min  
 Lab File: VL041948.D  
 Acq: 27 Jan 2025 13:05

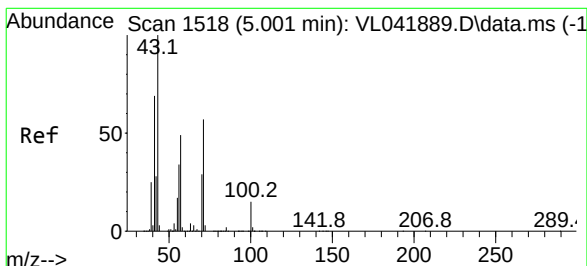
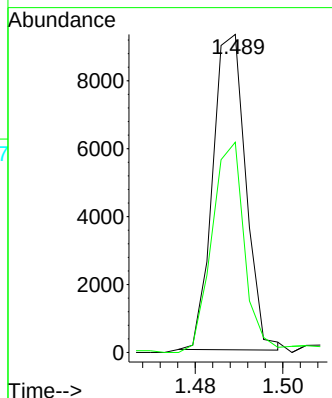
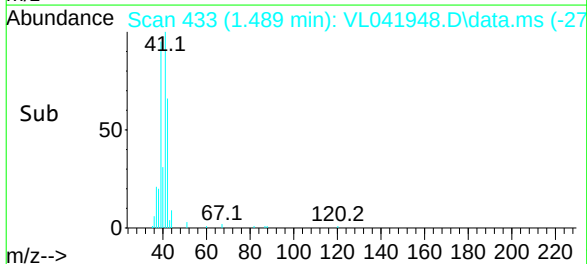
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT1-2025



Tgt Ion: 41 Resp: 4873  
 Ion Ratio Lower Upper  
 41 100  
 42 68.8 52.0 78.0

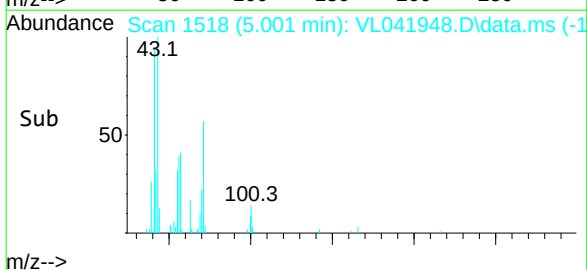
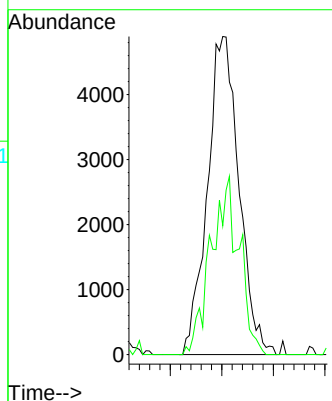
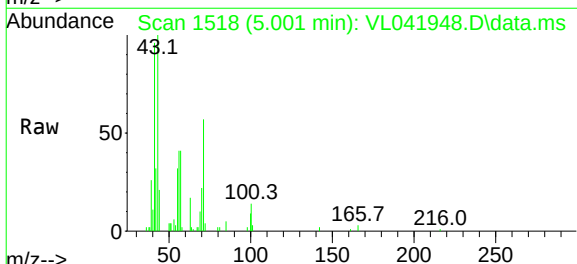
Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/30/2025  
 Supervised By :Mahesh Dadoda 01/30/2025

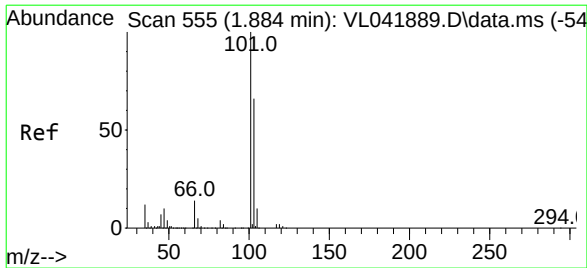


#10  
 Heptane  
 Concen: 0.462 ppbv m  
 RT: 5.001 min Scan# 1518  
 Delta R.T. 0.000 min  
 Lab File: VL041948.D  
 Acq: 27 Jan 2025 13:05

Tgt Ion: 43 Resp: 10432  
 Ion Ratio Lower Upper  
 43 100  
 57 50.2 41.0 61.4

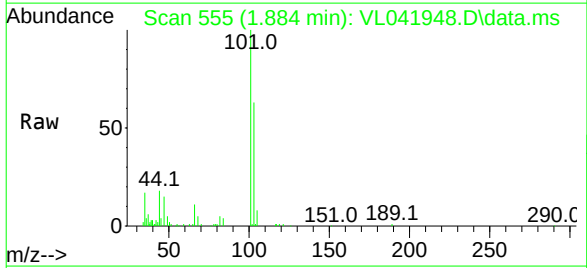






#11  
Trichlorofluoromethane  
Concen: 0.519 ppbv  
RT: 1.884 min Scan# 555  
Delta R.T. 0.000 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

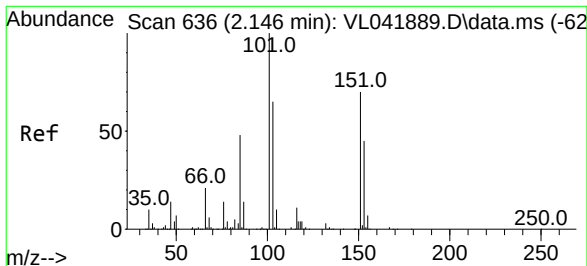
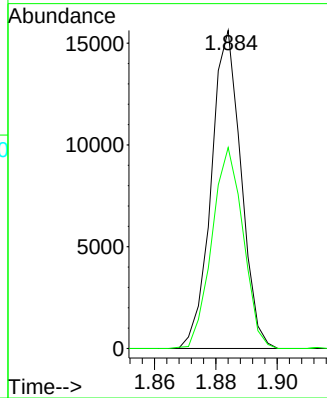
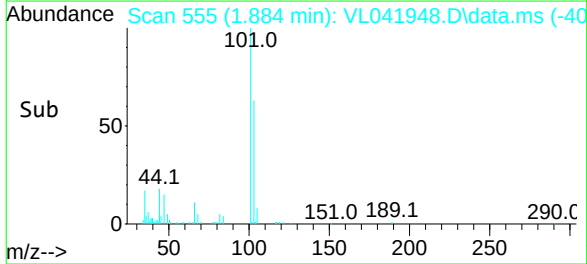
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025



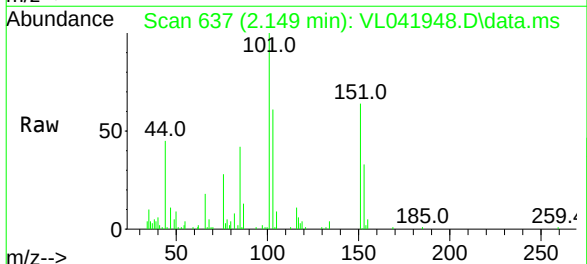
Tgt Ion:101 Resp: 10561  
Ion Ratio Lower Upper  
101 100  
103 63.2 53.1 79.7

Manual Integrations  
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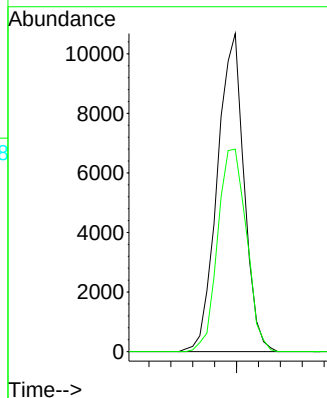
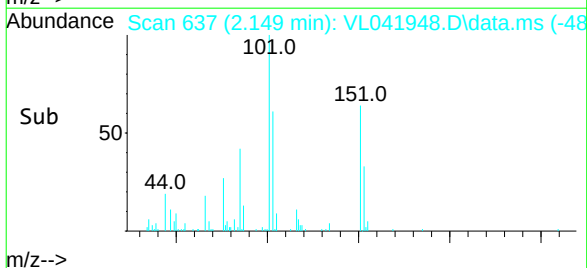
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025

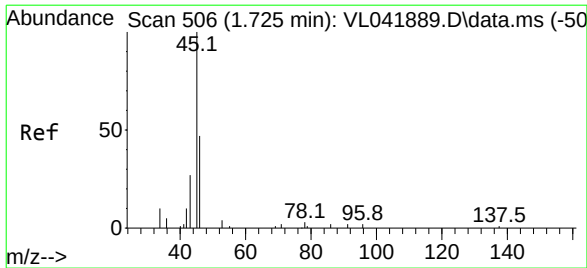


#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.568 ppbv  
RT: 2.149 min Scan# 637  
Delta R.T. 0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05



Tgt Ion:101 Resp: 9062  
Ion Ratio Lower Upper  
101 100  
151 68.5 56.1 84.1





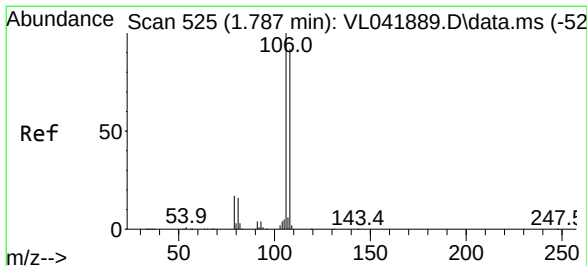
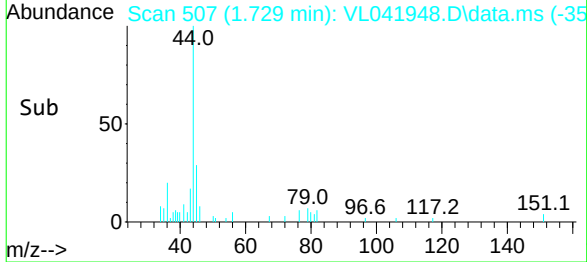
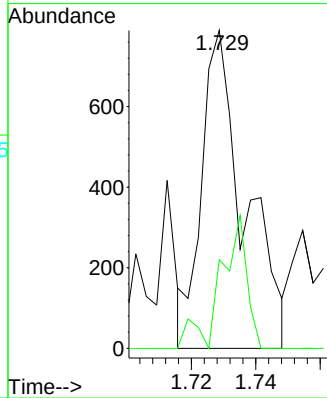
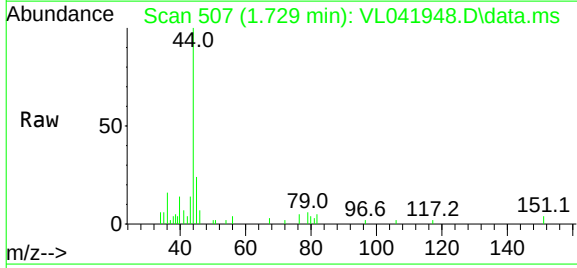
#13  
Ethanol  
Concen: 1.181 ppbv m  
RT: 1.729 min Scan# 506  
Delta R.T. 0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025

Tgt Ion: 45 Resp: 731  
Ion Ratio Lower Upper  
45 100  
46 0.0 18.1 72.5#

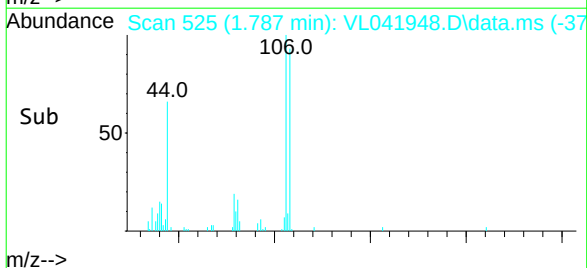
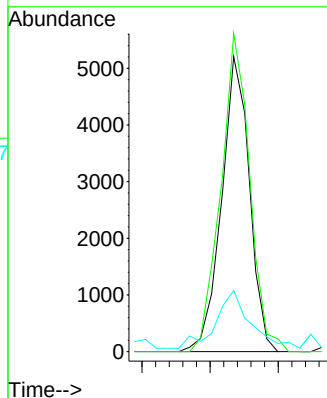
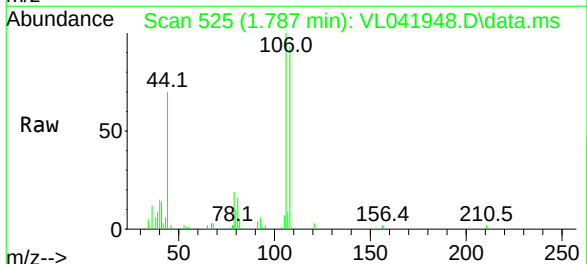
Manual Integrations  
APPROVED

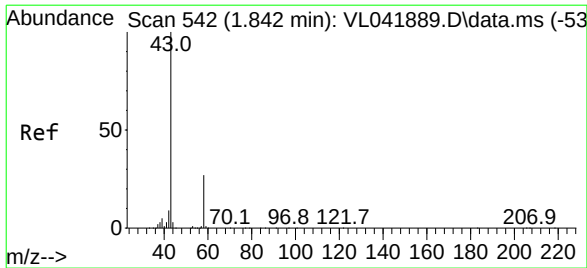
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#14  
Bromoethene  
Concen: 0.506 ppbv  
RT: 1.787 min Scan# 525  
Delta R.T. 0.000 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

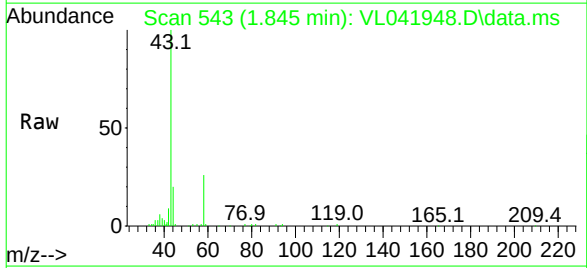
Tgt Ion:108 Resp: 2957  
Ion Ratio Lower Upper  
108 100  
106 112.0 85.5 128.3  
79 28.7 15.3 22.9#





#15  
Acetone  
Concen: 0.699 ppbv  
RT: 1.845 min Scan# 54  
Delta R.T. 0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

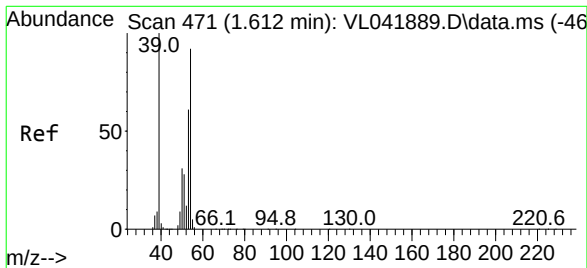
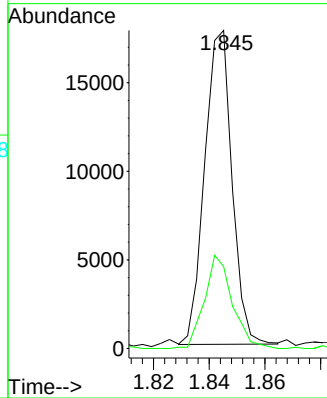
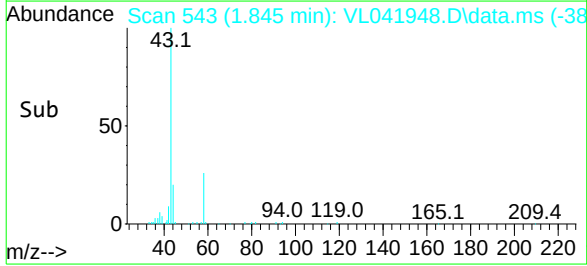
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025



Tgt Ion: 43 Resp: 12074  
Ion Ratio Lower Upper  
43 100  
58 30.7 21.9 32.9

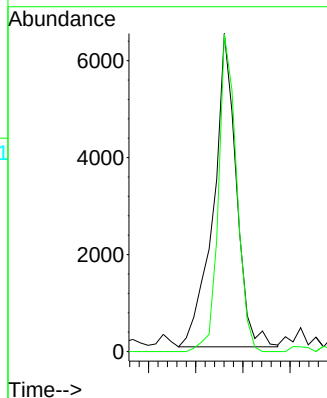
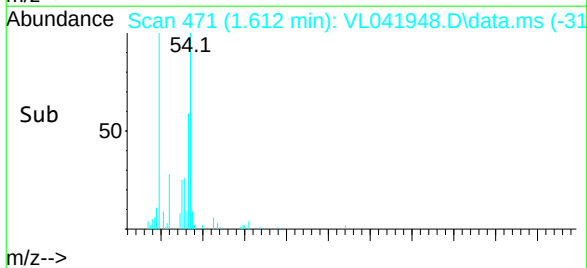
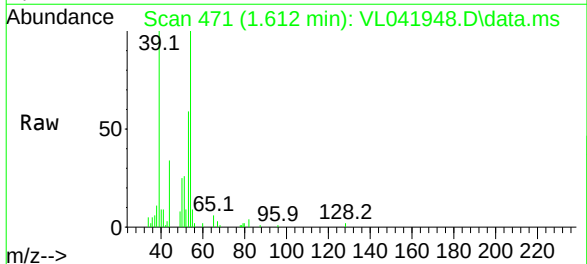
Manual Integrations  
APPROVED

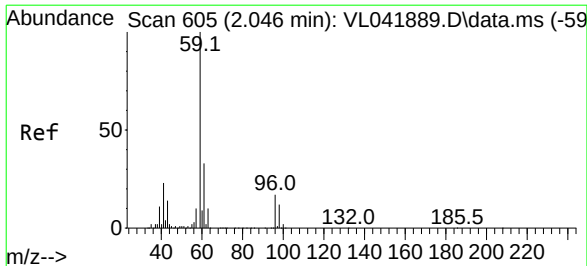
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#16  
1,3-Butadiene  
Concen: 0.564 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. 0.000 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

Tgt Ion: 39 Resp: 4366  
Ion Ratio Lower Upper  
39 100  
54 80.3 61.6 92.4





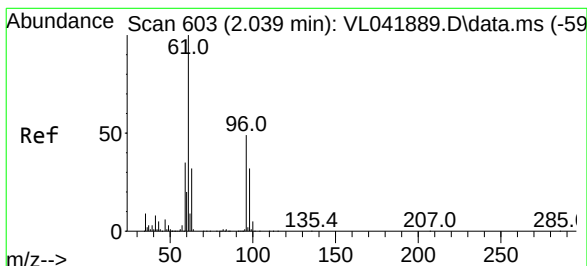
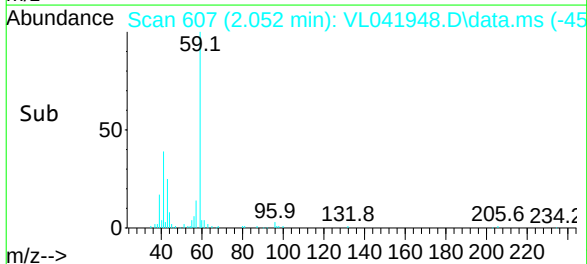
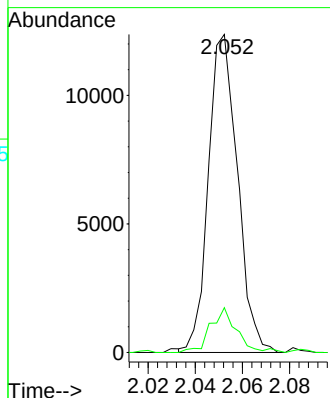
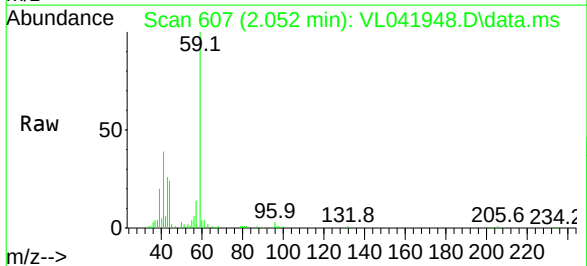
#17  
tert-Butyl alcohol  
Concen: 0.500 ppbv  
RT: 2.052 min Scan# 605  
Delta R.T. 0.007 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025

Tgt Ion: 59 Resp: 10623  
Ion Ratio Lower Upper  
59 100  
57 13.2 7.8 11.8#

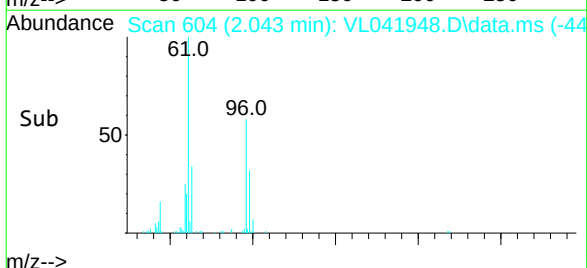
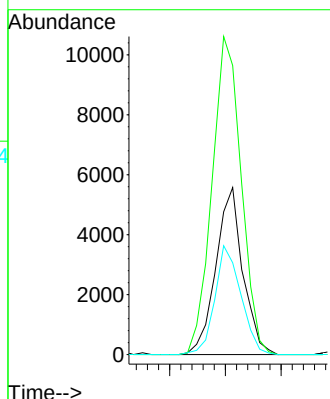
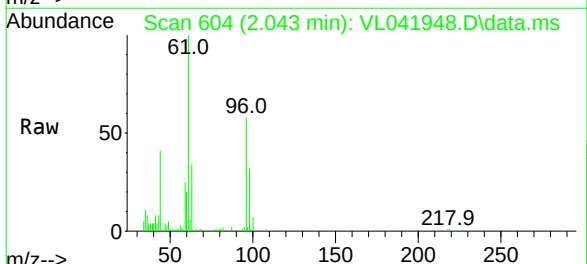
Manual Integrations  
APPROVED

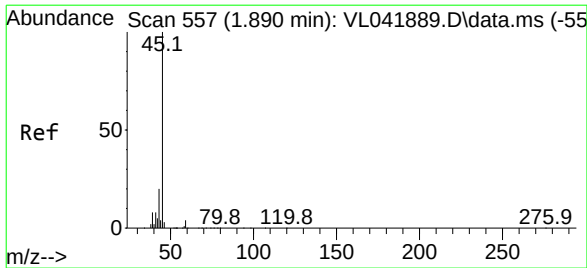
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#18  
1,1-Dichloroethene  
Concen: 0.523 ppbv  
RT: 2.043 min Scan# 604  
Delta R.T. 0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

Tgt Ion: 96 Resp: 3760  
Ion Ratio Lower Upper  
96 100  
61 173.0 163.1 244.7  
98 55.0 52.7 79.1





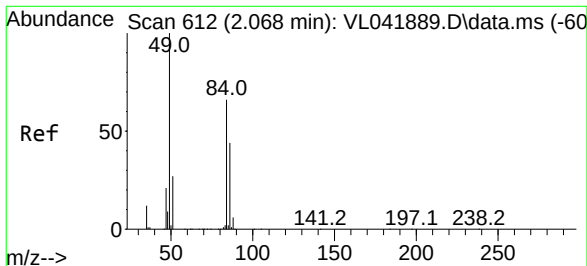
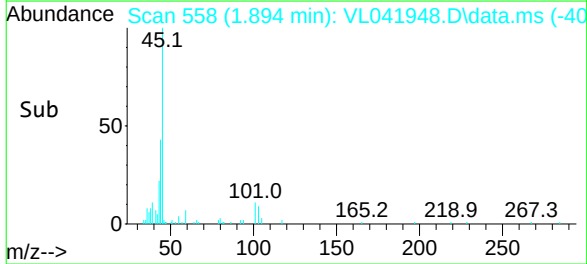
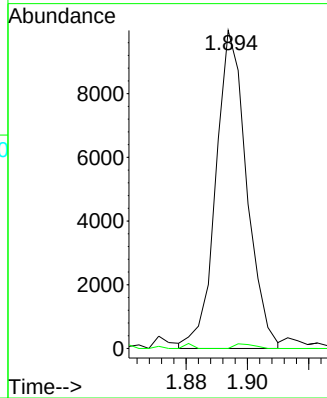
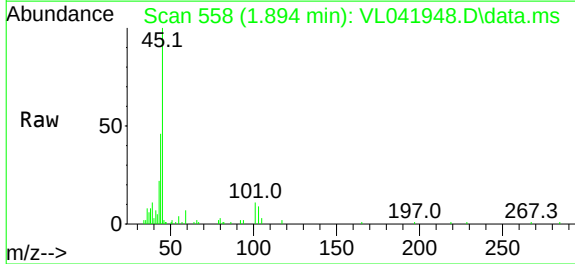
#19  
Isopropyl Alcohol  
Concen: 0.682 ppbv  
RT: 1.894 min Scan# 557  
Delta R.T. 0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025

Tgt Ion: 45 Resp: 6978  
Ion Ratio Lower Upper  
45 100  
58 0.0 35.0 52.6#

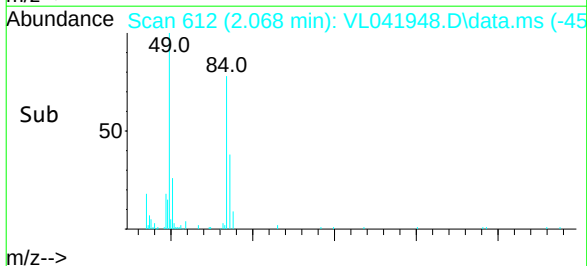
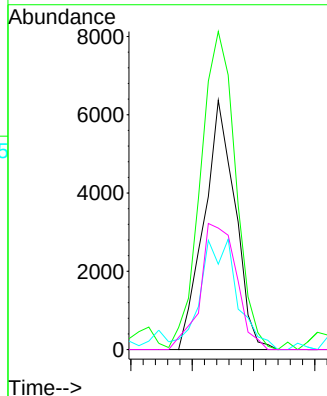
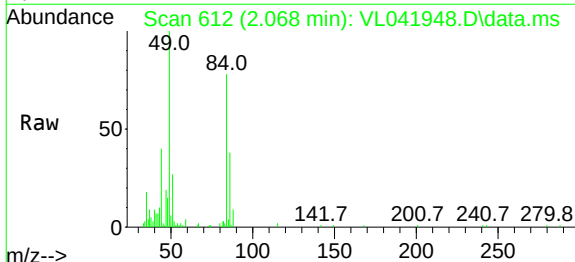
Manual Integrations  
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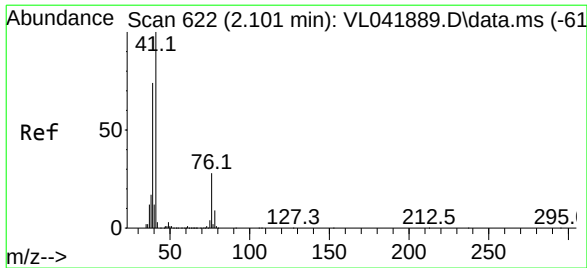
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#20  
Methylene Chloride  
Concen: 0.658 ppbv  
RT: 2.068 min Scan# 612  
Delta R.T. 0.000 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

Tgt Ion: 84 Resp: 4488  
Ion Ratio Lower Upper  
84 100  
49 127.6 123.1 184.7  
51 34.3 35.8 53.8#  
86 48.7 53.7 80.5#





#21

Allyl Chloride

Concen: 0.513 ppbv

RT: 2.104 min Scan# 62

Delta R.T. 0.003 min

Lab File: VL041948.D

Acq: 27 Jan 2025 13:05

Instrument :

MSVOA\_L

ClientSampleId :

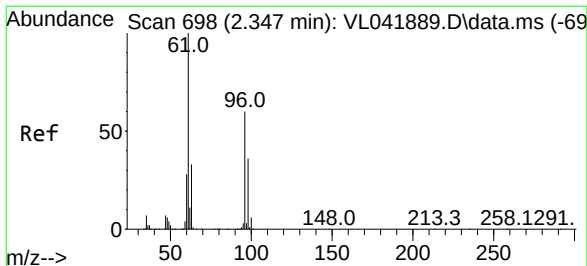
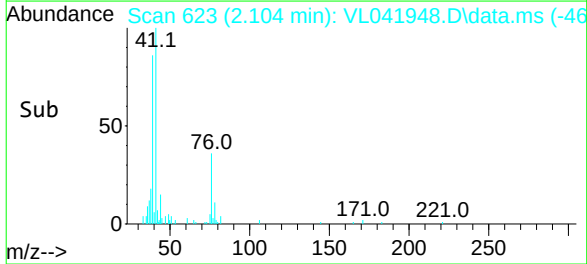
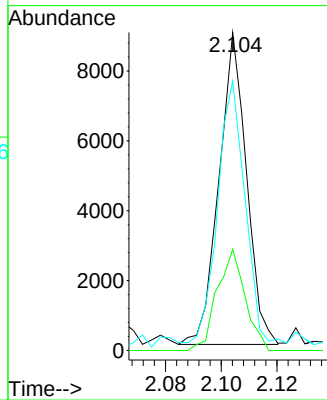
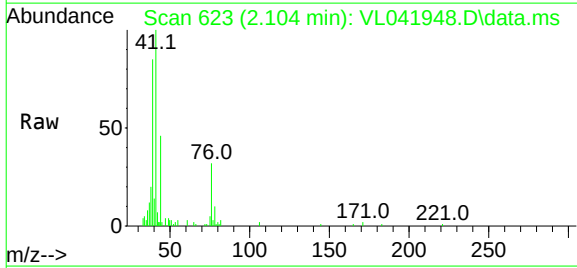
LOQ-AIR-02-QT1-2025

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 6128  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 76       | 33.0  | 24.2  | 36.4  |
| 39       | 93.8  | 60.6  | 91.0# |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#22

trans-1,2-Dichloroethene

Concen: 0.561 ppbv m

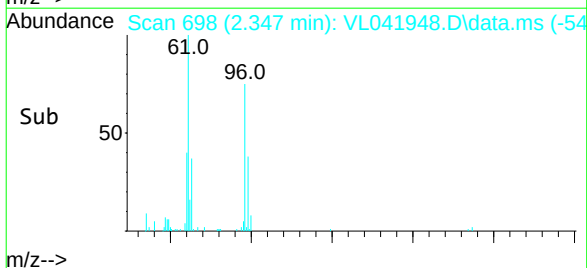
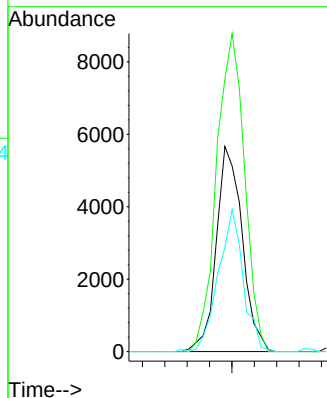
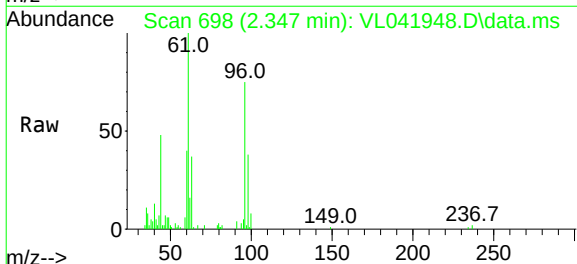
RT: 2.347 min Scan# 698

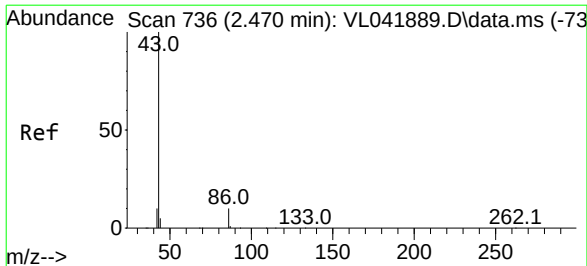
Delta R.T. 0.000 min

Lab File: VL041948.D

Acq: 27 Jan 2025 13:05

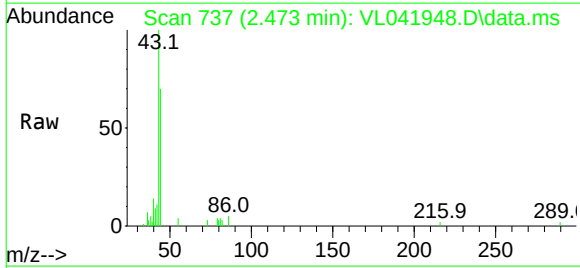
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 4552   |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 132.9 | 134.5 | 201.7# |
| 98       | 50.7  | 48.9  | 73.3   |





#23  
 Vinyl Acetate  
 Concen: 0.594 ppbv  
 RT: 2.473 min Scan# 736  
 Delta R.T. 0.003 min  
 Lab File: VL041948.D  
 Acq: 27 Jan 2025 13:05

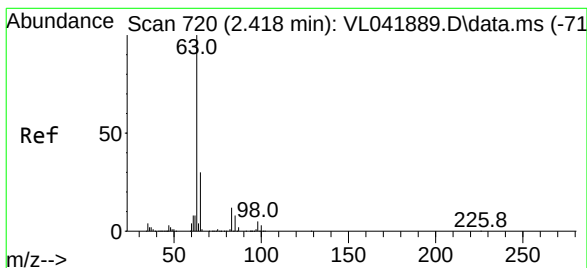
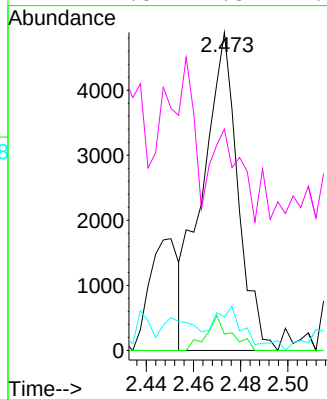
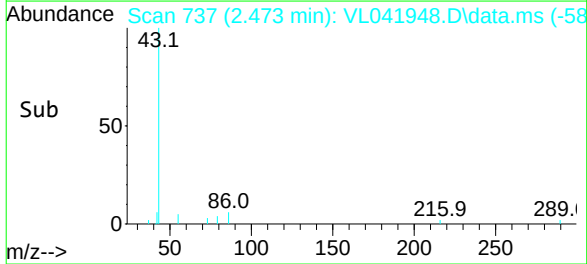
Instrument : MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT1-2025



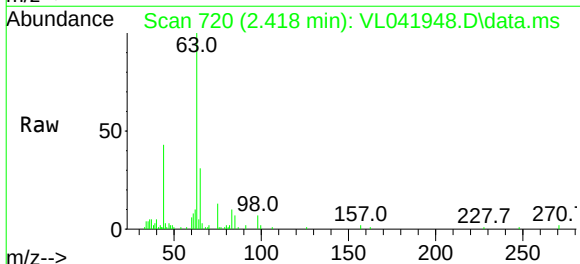
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 86      | 5.2   | 6.2   | 9.4   |
| 42      | 7.4   | 8.5   | 12.7  |
| 44      | 22.8  | 4.8   | 7.2   |

Manual Integrations  
 APPROVED

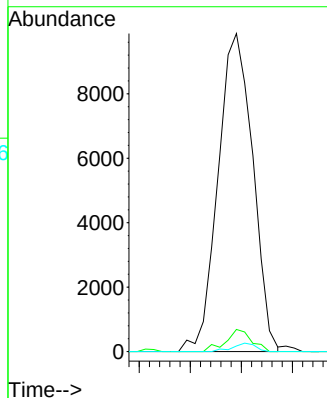
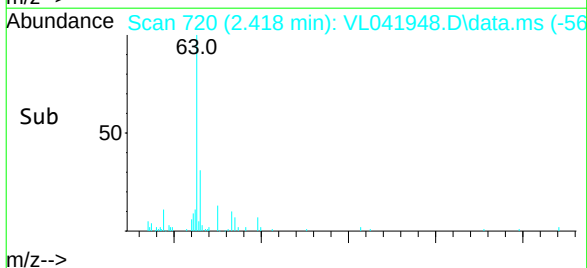
Reviewed By :Semsettin Yesilyurt 01/30/2025  
 Supervised By :Mahesh Dadoda 01/30/2025

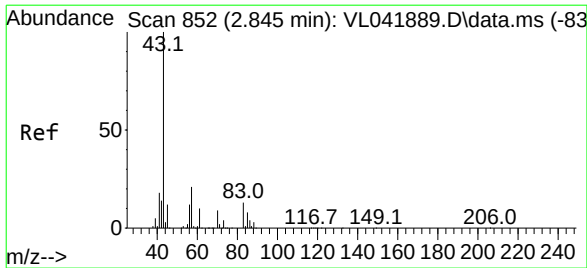


#24  
 1,1-Dichloroethane  
 Concen: 0.594 ppbv  
 RT: 2.418 min Scan# 720  
 Delta R.T. 0.000 min  
 Lab File: VL041948.D  
 Acq: 27 Jan 2025 13:05



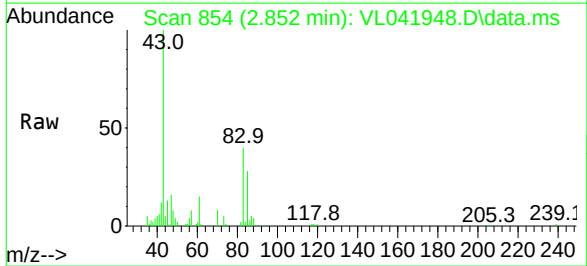
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 98      | 7.0   | 2.6   | 7.8   |
| 100     | 1.8   | 1.4   | 4.2   |





#25  
Ethyl Acetate  
Concen: 0.525 ppbv  
RT: 2.852 min Scan# 852  
Delta R.T. 0.007 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

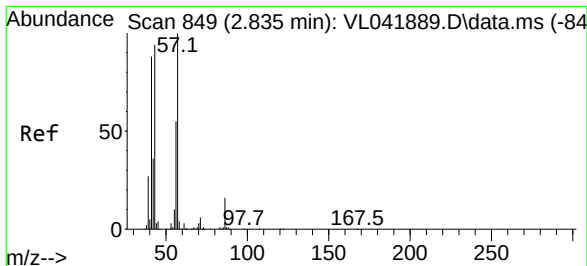
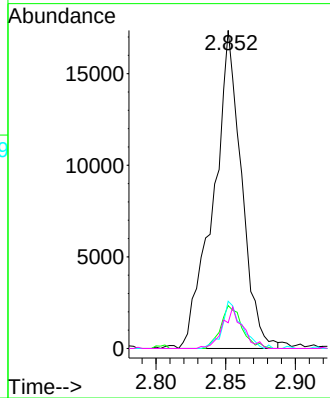
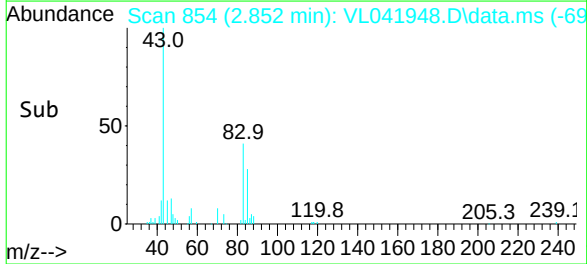
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025



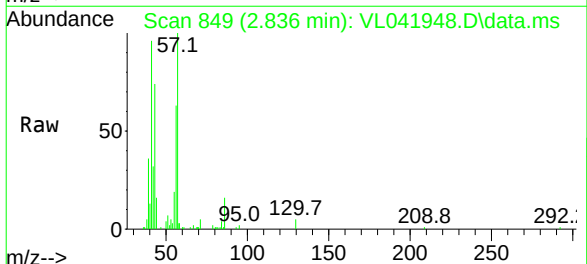
| Tgt Ion: | 43    | Resp: | 24423 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 10.1  | 8.2   | 12.2  |
| 61       | 10.3  | 7.4   | 11.0  |
| 70       | 9.1   | 7.0   | 10.4  |

Manual Integrations  
APPROVED

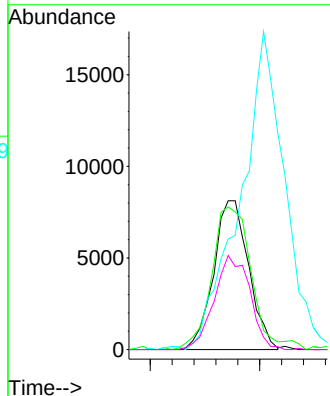
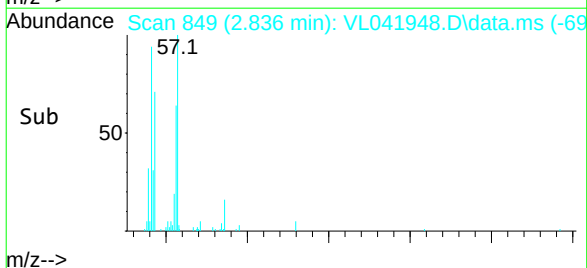
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



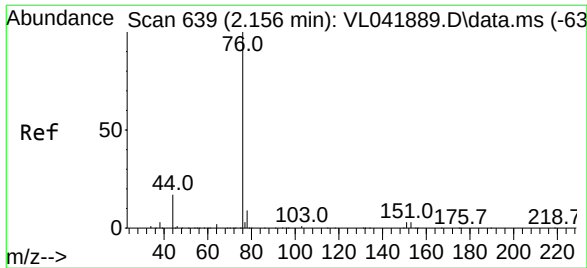
#26  
Hexane  
Concen: 0.490 ppbv  
RT: 2.836 min Scan# 849  
Delta R.T. 0.000 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05



| Tgt Ion: | 57    | Resp: | 9025   |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 110.8 | 73.8  | 110.8# |
| 43       | 279.0 | 197.3 | 295.9  |
| 56       | 64.3  | 42.7  | 64.1#  |

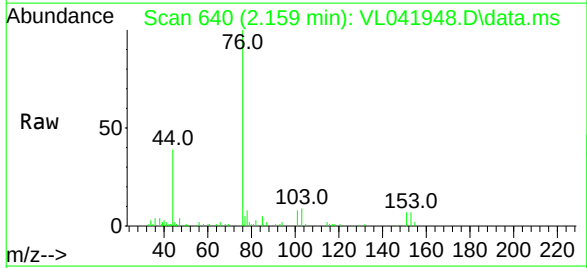






#27  
Carbon Disulfide  
Concen: 0.523 ppbv  
RT: 2.159 min Scan# 640  
Delta R.T. 0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

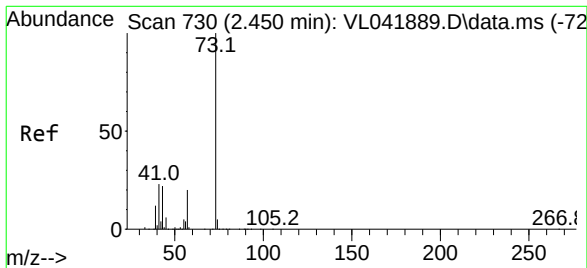
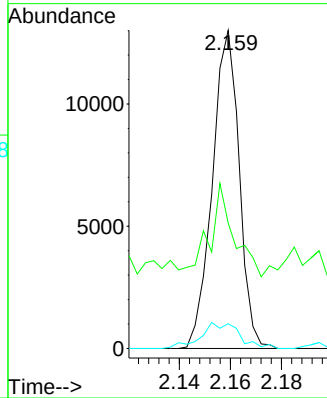
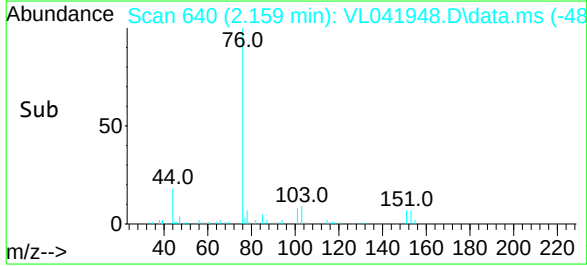
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025



Tgt Ion: 76 Resp: 9531  
Ion Ratio Lower Upper  
76 100  
44 68.3 15.4 23.0  
78 11.7 9.3 13.9

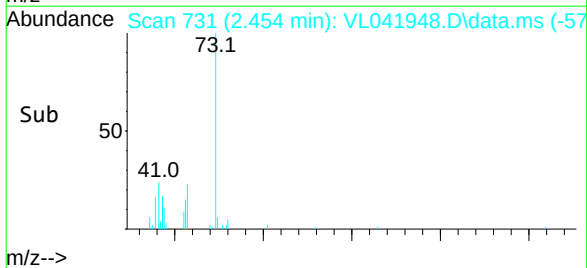
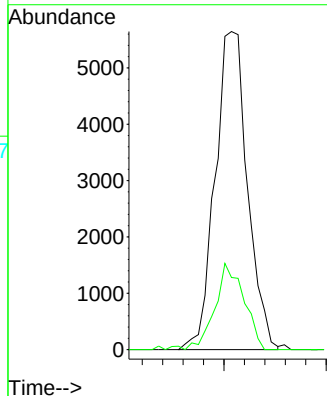
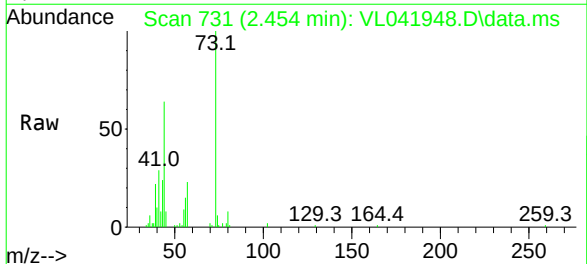
Manual Integrations  
APPROVED

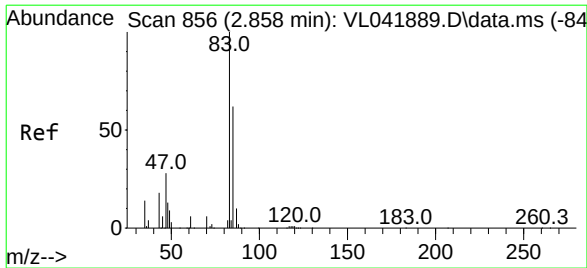
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#28  
Methyl tert-Butyl Ether  
Concen: 0.441 ppbv  
RT: 2.454 min Scan# 731  
Delta R.T. 0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

Tgt Ion: 73 Resp: 6211  
Ion Ratio Lower Upper  
73 100  
57 24.7 18.1 27.1





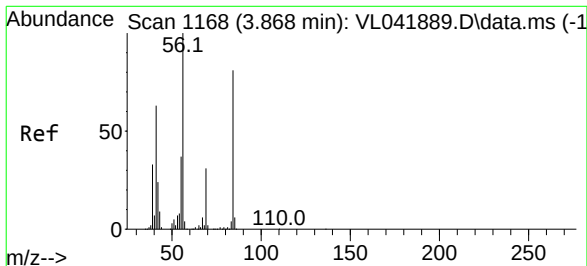
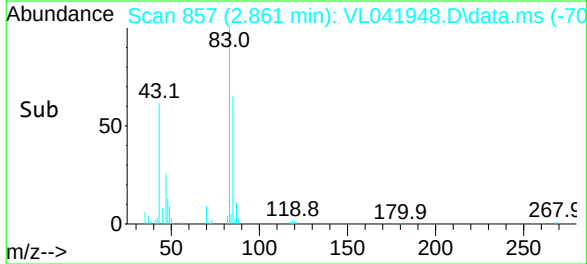
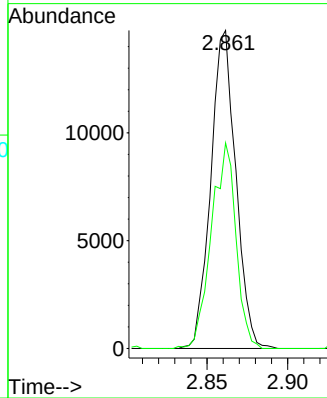
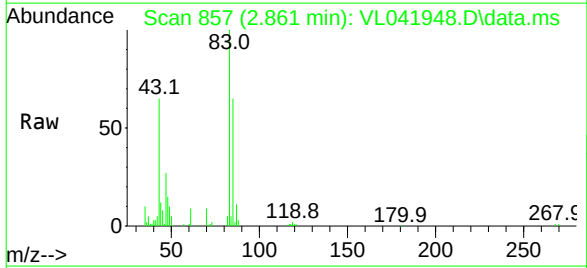
#29  
Chloroform  
Concen: 0.548 ppbv  
RT: 2.861 min Scan# 85  
Delta R.T. 0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025

Tgt Ion: 83 Resp: 15948  
Ion Ratio Lower Upper  
83 100  
85 64.6 50.1 75.1

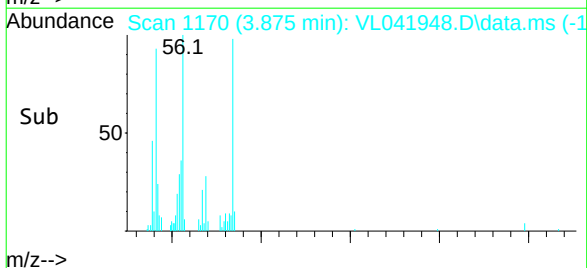
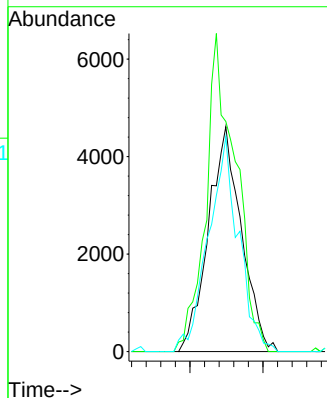
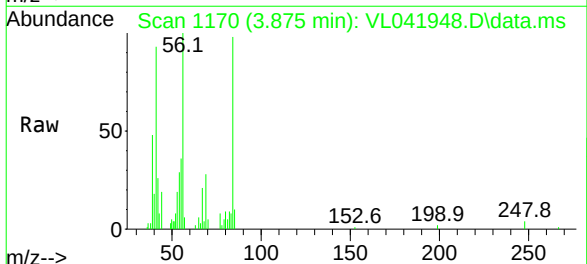
Manual Integrations  
APPROVED

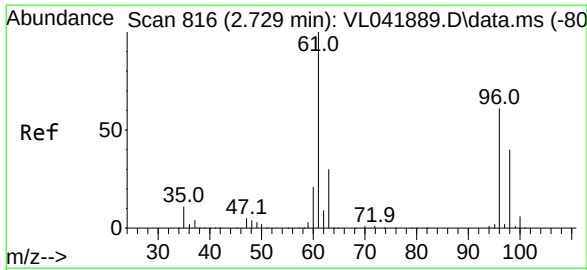
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#30  
Cyclohexane  
Concen: 0.454 ppbv  
RT: 3.875 min Scan# 1170  
Delta R.T. 0.007 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

Tgt Ion: 84 Resp: 7250  
Ion Ratio Lower Upper  
84 100  
56 127.2 99.3 148.9  
41 87.4 64.3 96.5





#31

cis-1,2-Dichloroethene

Concen: 0.535 ppbv

RT: 2.732 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL041948.D

Acq: 27 Jan 2025 13:05

Instrument :

MSVOA\_L

ClientSampleId :

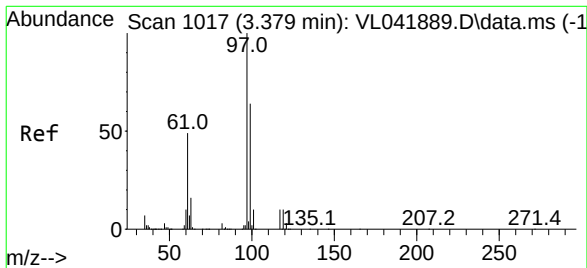
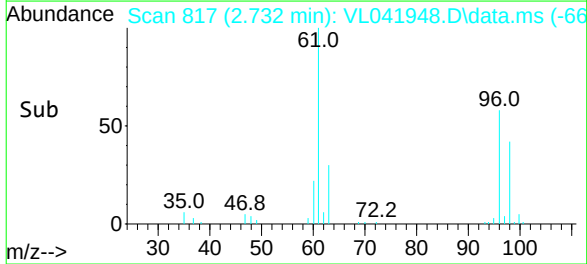
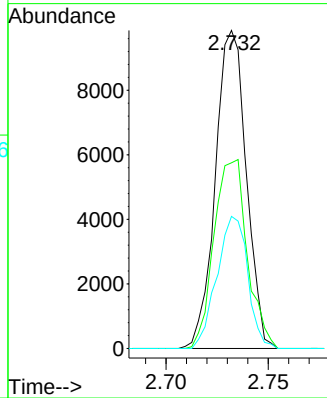
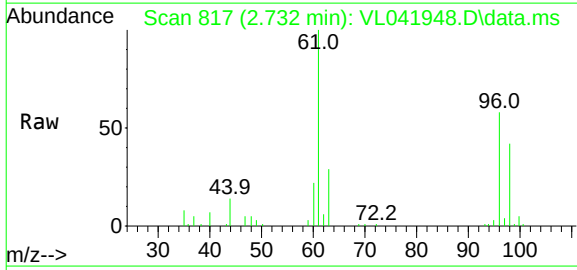
LOQ-AIR-02-QT1-2025

|             |             |
|-------------|-------------|
| Tgt Ion: 61 | Resp: 10369 |
| Ion Ratio   | Lower Upper |
| 61 100      |             |
| 96 58.4     | 48.7 73.1   |
| 98 41.5     | 31.6 47.4   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#32

1,1,1-Trichloroethane

Concen: 0.513 ppbv

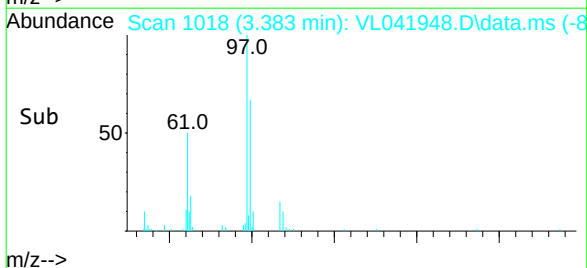
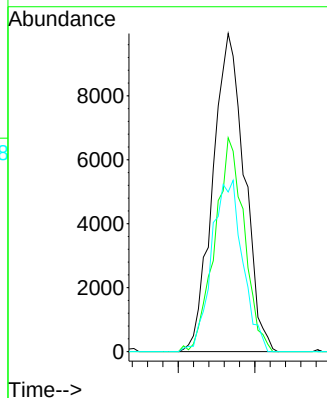
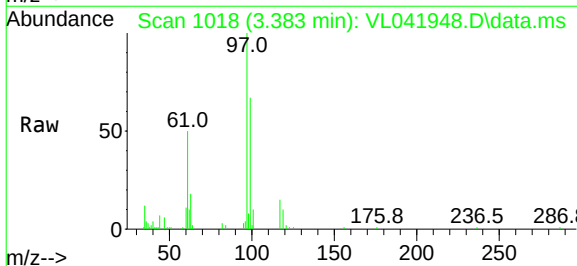
RT: 3.383 min Scan# 1018

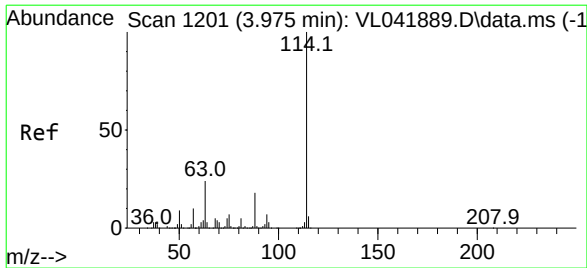
Delta R.T. 0.003 min

Lab File: VL041948.D

Acq: 27 Jan 2025 13:05

|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 14275 |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 99 62.2     | 51.1 76.7   |
| 61 52.8     | 39.0 58.6   |





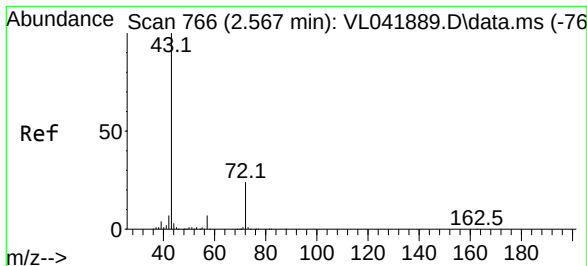
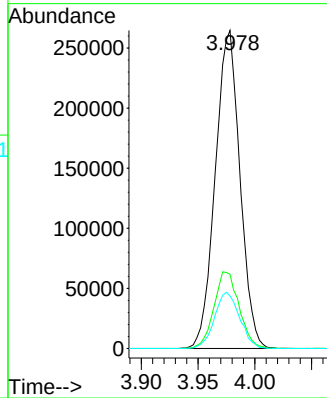
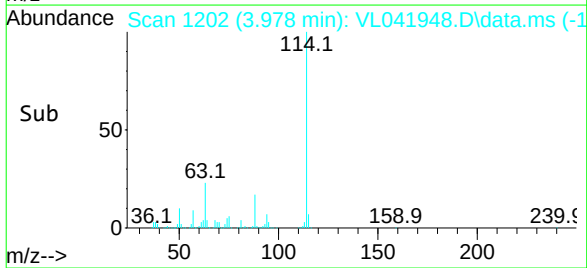
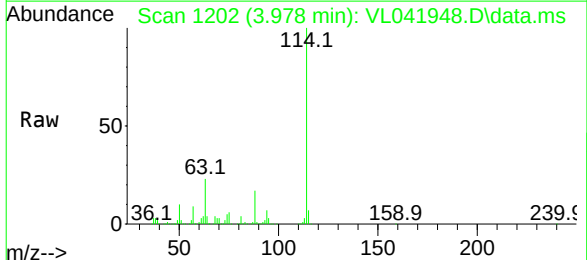
#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.978 min Scan# 1201  
Delta R.T. 0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025

Tgt Ion:114 Resp: 400111  
Ion Ratio Lower Upper  
114 100  
63 24.6 19.8 29.6  
88 17.9 14.4 21.6

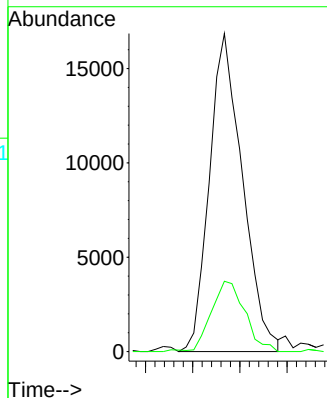
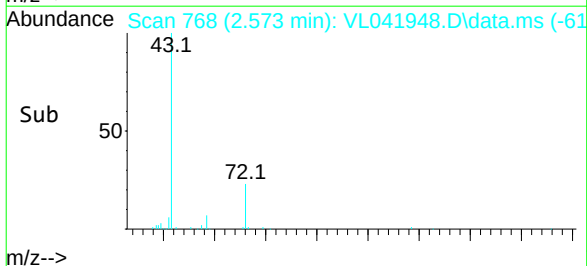
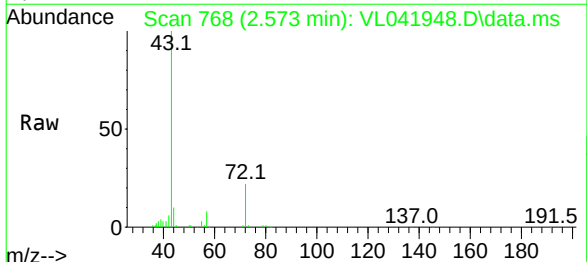
Manual Integrations  
APPROVED

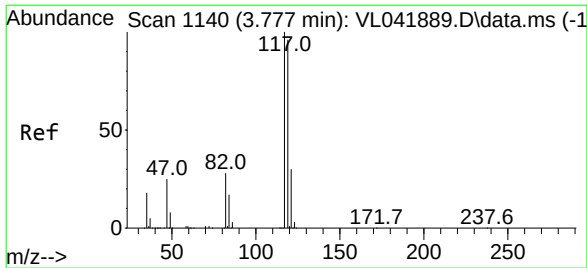
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#34  
2-Butanone  
Concen: 0.646 ppbv  
RT: 2.573 min Scan# 768  
Delta R.T. 0.007 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

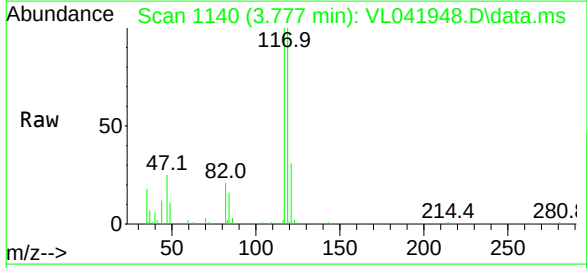
Tgt Ion: 43 Resp: 16425  
Ion Ratio Lower Upper  
43 100  
72 22.8 18.6 28.0





#35  
Carbon Tetrachloride  
Concen: 0.554 ppbv  
RT: 3.777 min Scan# 1110  
Delta R.T. 0.000 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

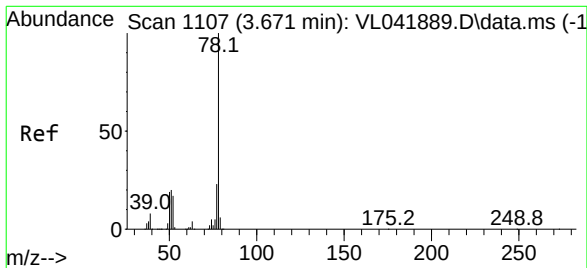
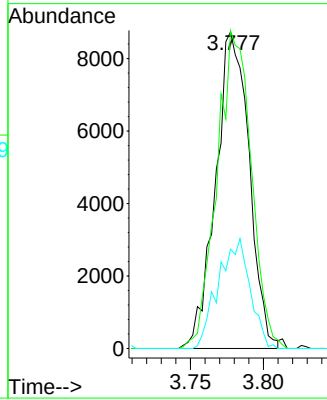
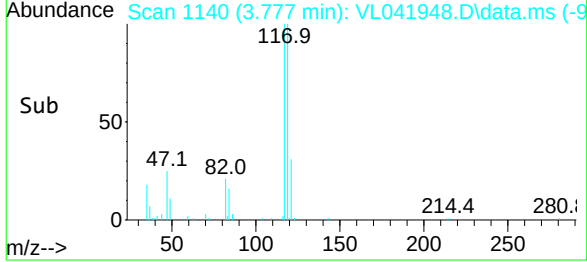
Instrument : MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 13934 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 100.5 | 76.9  | 115.3 |
| 121      | 31.4  | 23.8  | 35.6  |

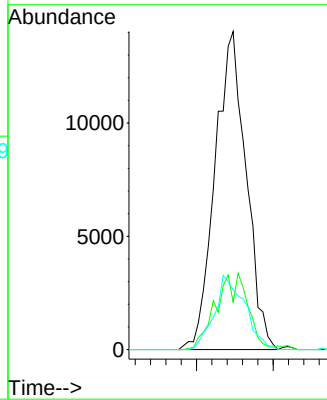
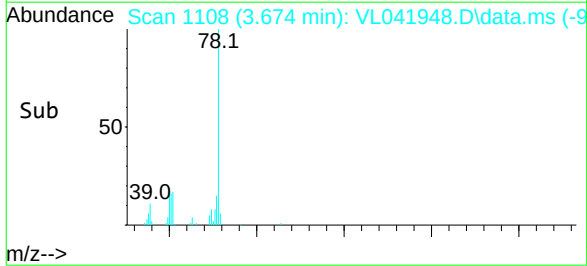
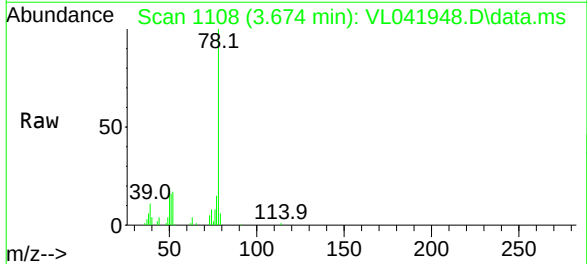
Manual Integrations  
APPROVED

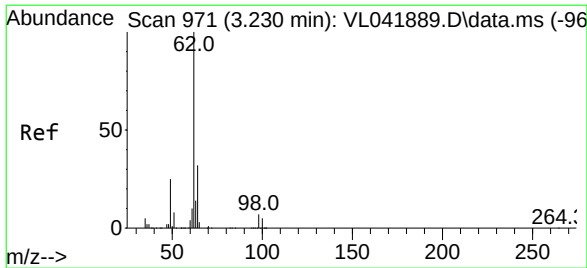
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#36  
Benzene  
Concen: 0.539 ppbv  
RT: 3.674 min Scan# 1108  
Delta R.T. 0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

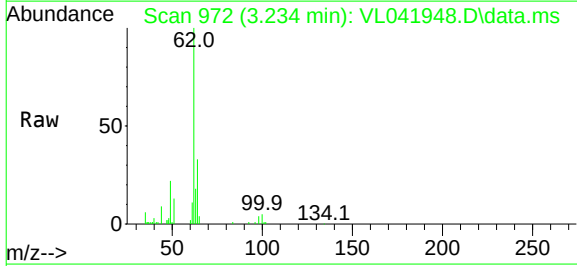
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 78    | Resp: | 19789 |
| Ion      | Ratio | Lower | Upper |
| 78       | 100   |       |       |
| 77       | 14.9  | 18.1  | 27.1# |
| 50       | 18.8  | 15.2  | 22.8  |





#37  
1,2-Dichloroethane  
Concen: 0.618 ppbv  
RT: 3.234 min Scan# 971  
Delta R.T. 0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

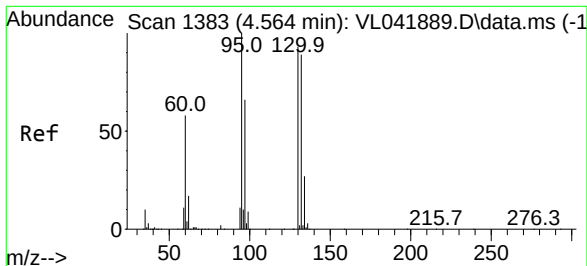
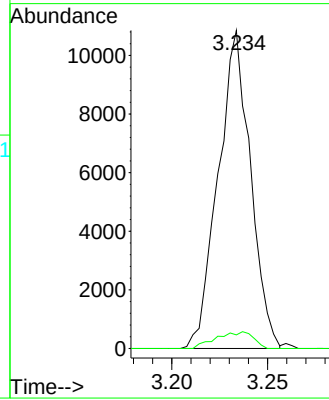
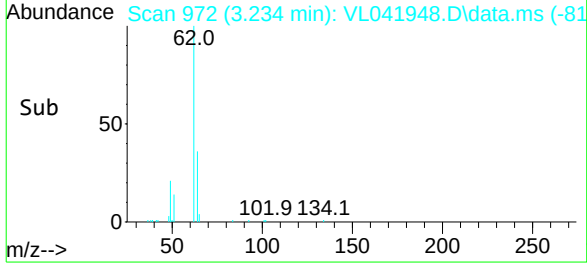
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025



Tgt Ion: 62 Resp: 12734  
Ion Ratio Lower Upper  
62 100  
98 6.0 5.4 8.0

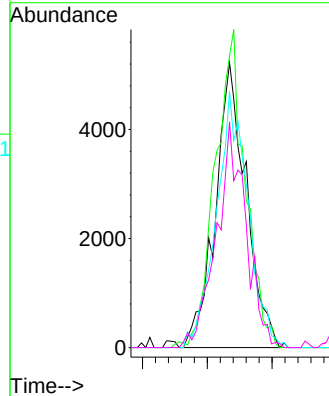
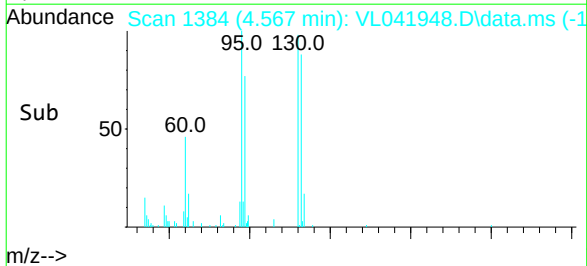
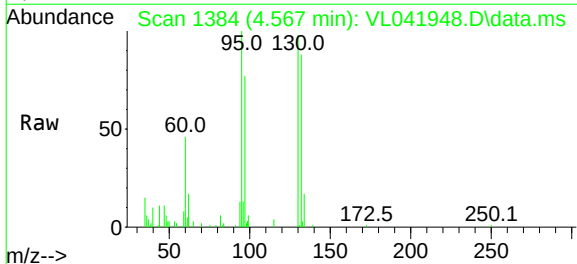
Manual Integrations  
APPROVED

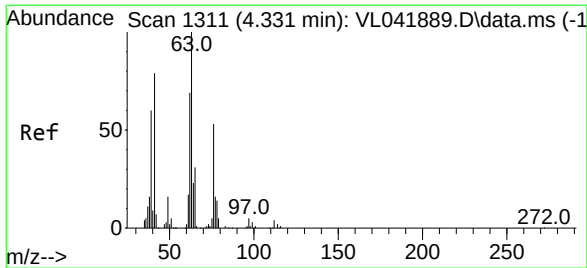
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#38  
Trichloroethene  
Concen: 0.590 ppbv m  
RT: 4.567 min Scan# 1384  
Delta R.T. 0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

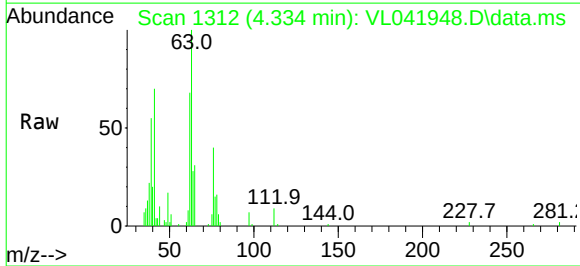
Tgt Ion:130 Resp: 8591  
Ion Ratio Lower Upper  
130 100  
95 102.4 85.8 128.8  
132 89.9 76.5 114.7  
97 79.2 56.8 85.2





#39  
1,2-Dichloropropane  
Concen: 0.640 ppbv m  
RT: 4.334 min Scan# 1311  
Delta R.T. 0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

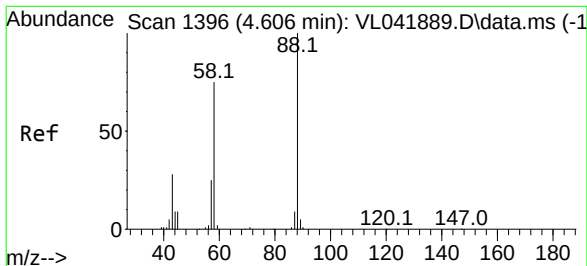
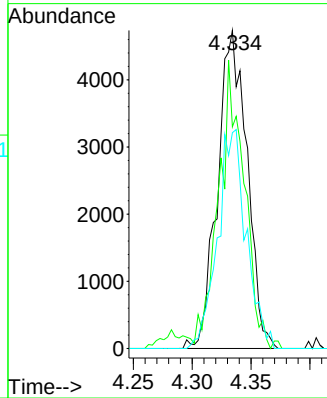
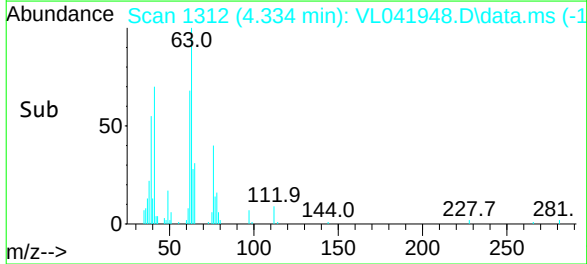
Instrument : MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025



Tgt Ion: 63 Resp: 8234  
Ion Ratio Lower Upper  
63 100  
41 69.7 63.7 95.5  
62 67.8 55.4 83.2

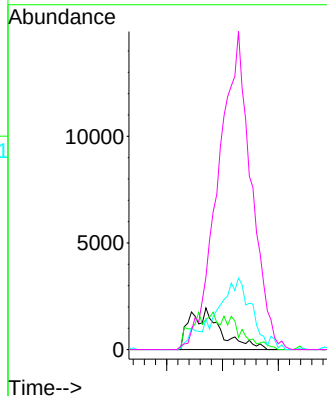
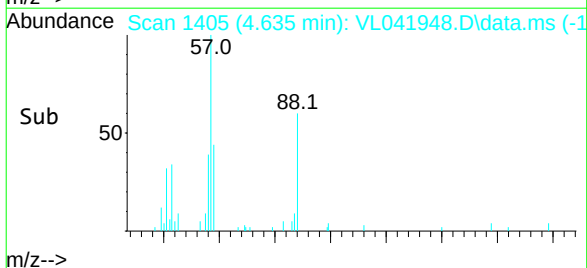
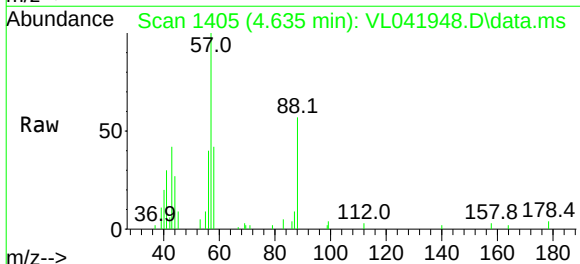
Manual Integrations  
APPROVED

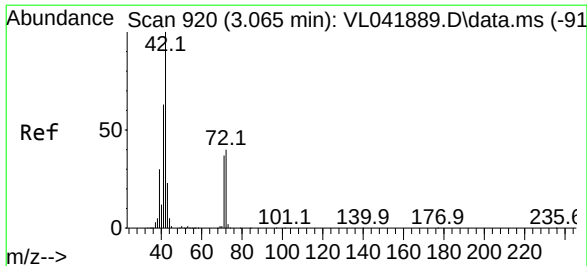
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#40  
1,4-Dioxane  
Concen: 0.576 ppbv m  
RT: 4.635 min Scan# 1405  
Delta R.T. 0.029 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

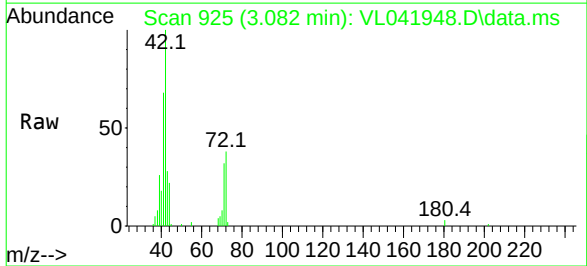
Tgt Ion: 88 Resp: 3744  
Ion Ratio Lower Upper  
88 100  
58 0.0 62.1 93.1#  
43 0.0 0.0 0.0  
57 0.0 0.0 0.0





#41  
Tetrahydrofuran  
Concen: 0.544 ppbv  
RT: 3.082 min Scan# 920  
Delta R.T. 0.016 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

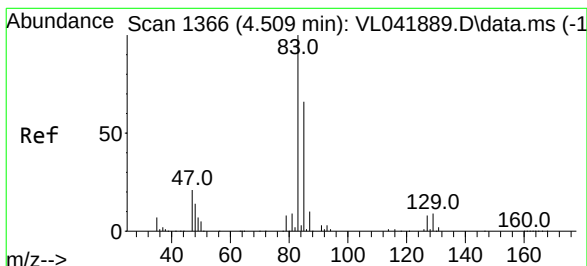
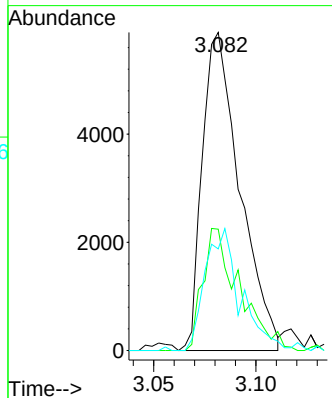
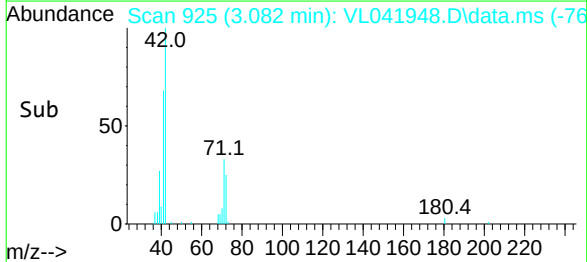
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025



|             |             |
|-------------|-------------|
| Tgt Ion: 42 | Resp: 7516  |
| Ion Ratio   | Lower Upper |
| 42 100      |             |
| 72 38.5     | 32.3 48.5   |
| 71 36.7     | 29.9 44.9   |

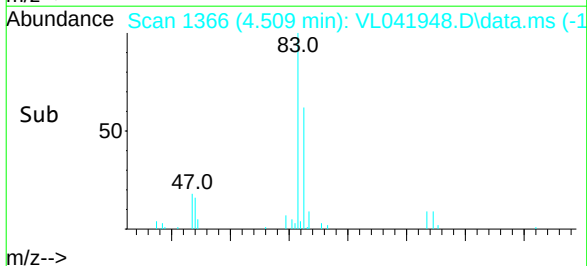
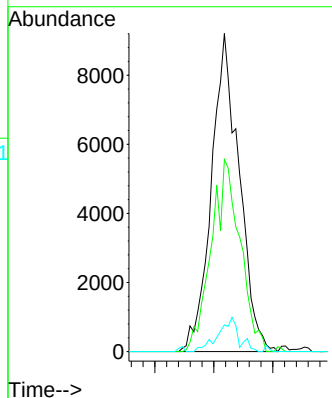
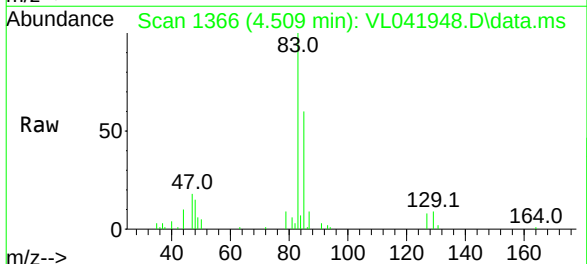
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025

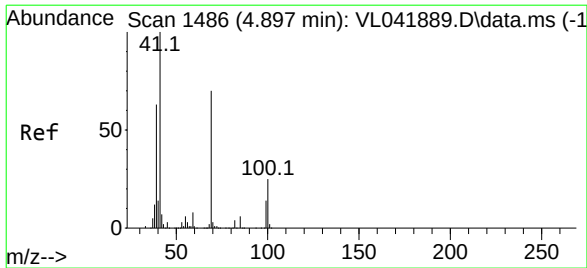


#42  
Bromodichloromethane  
Concen: 0.545 ppbv  
RT: 4.509 min Scan# 1366  
Delta R.T. 0.000 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

|             |             |
|-------------|-------------|
| Tgt Ion: 83 | Resp: 15063 |
| Ion Ratio   | Lower Upper |
| 83 100      |             |
| 85 60.4     | 52.6 78.8   |
| 127 8.4     | 6.4 9.6     |







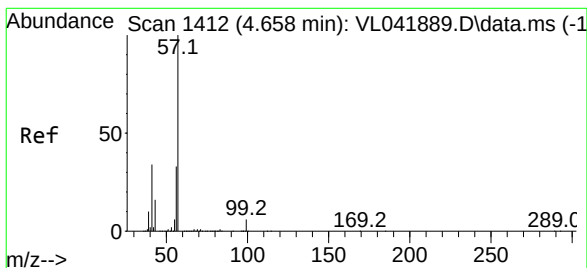
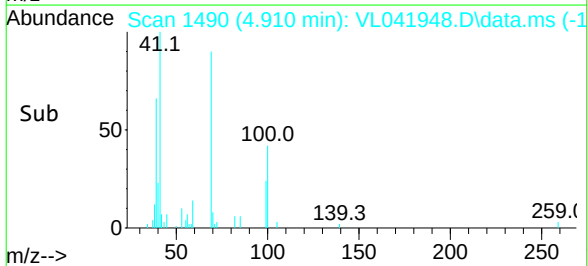
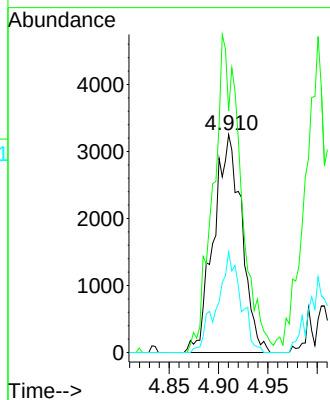
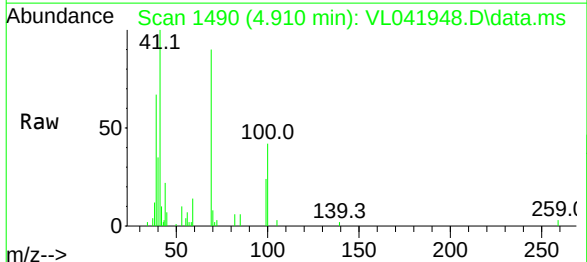
#43  
Methyl Methacrylate  
Concen: 0.474 ppbv m  
RT: 4.910 min Scan# 1414  
Delta R.T. 0.013 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025

Tgt Ion: 69 Resp: 6461  
Ion Ratio Lower Upper  
69 100  
41 142.6 118.6 177.8  
100 0.0 29.3 43.9#

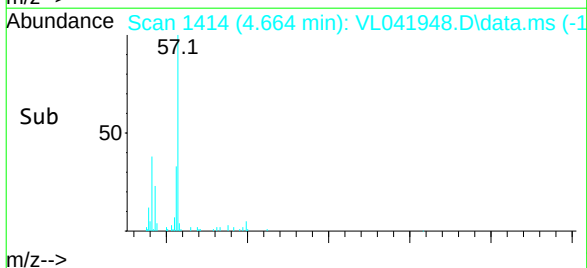
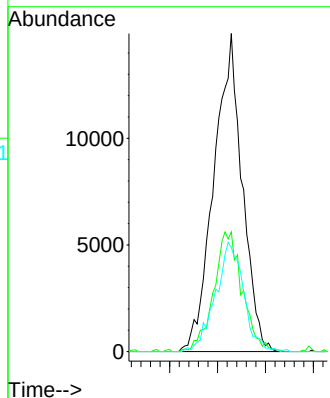
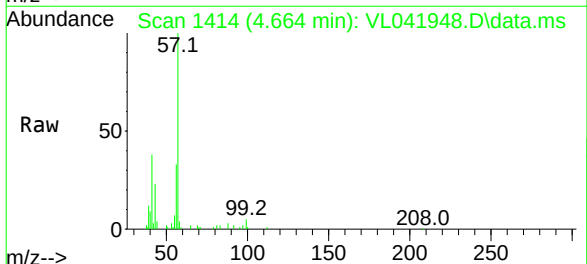
Manual Integrations  
APPROVED

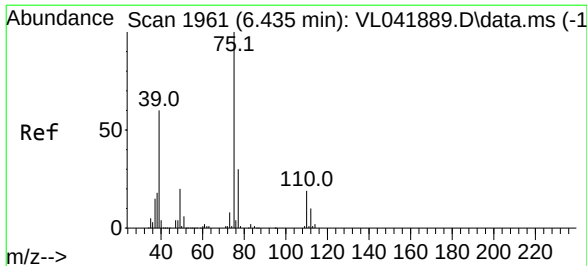
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#44  
2,2,4-Trimethylpentane  
Concen: 0.516 ppbv  
RT: 4.664 min Scan# 1414  
Delta R.T. 0.007 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

Tgt Ion: 57 Resp: 30655  
Ion Ratio Lower Upper  
57 100  
41 38.0 26.6 40.0  
56 34.2 25.4 38.2





#45

t-1,3-Dichloropropene

Concen: 0.417 ppbv m

RT: 6.441 min Scan# 19

Delta R.T. 0.007 min

Lab File: VL041948.D

Acq: 27 Jan 2025 13:05

Instrument :

MSVOA\_L

ClientSampleId :

LOQ-AIR-02-QT1-2025

Tgt Ion: 75 Resp: 5325

Ion Ratio Lower Upper

75 100

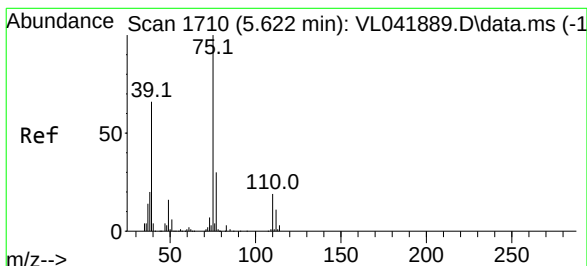
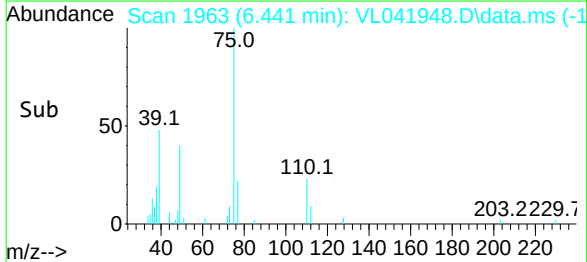
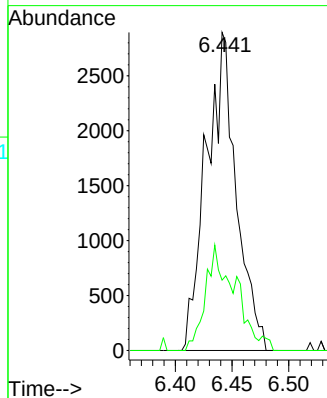
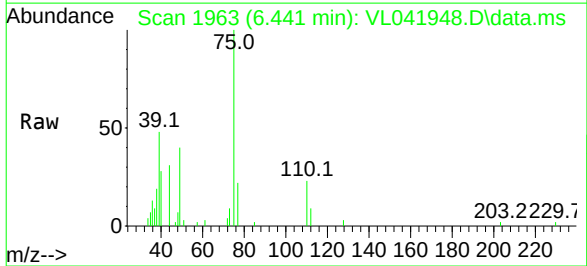
77 22.1 24.3 36.5#

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/30/2025

Supervised By :Mahesh Dadoda 01/30/2025



#46

cis-1,3-Dichloropropene

Concen: 0.444 ppbv m

RT: 5.626 min Scan# 1711

Delta R.T. 0.003 min

Lab File: VL041948.D

Acq: 27 Jan 2025 13:05

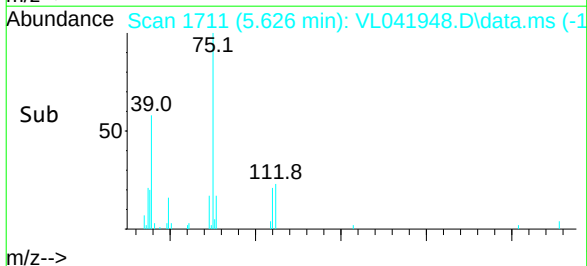
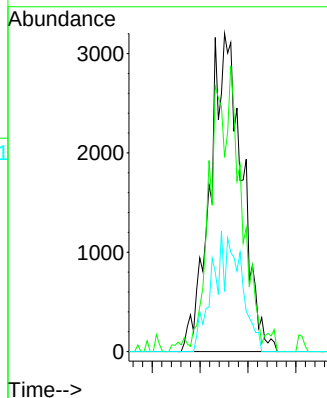
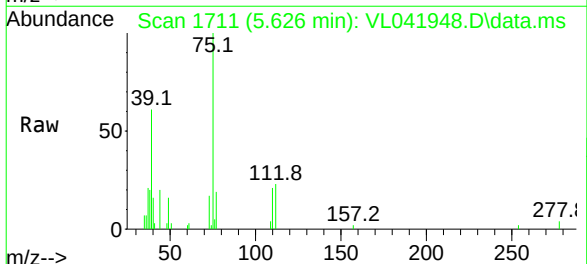
Tgt Ion: 75 Resp: 7447

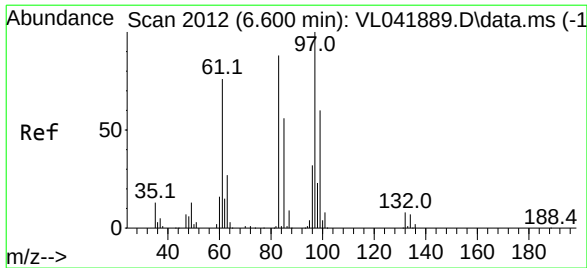
Ion Ratio Lower Upper

75 100

39 61.1 53.1 79.7

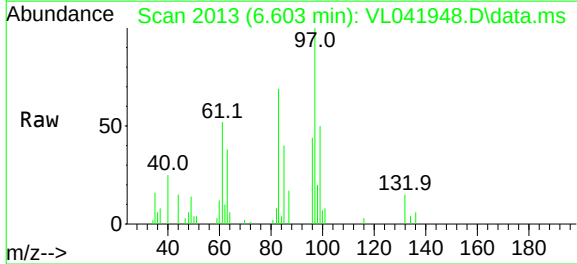
77 18.9 23.8 35.8#





#47  
1,1,2-Trichloroethane  
Concen: 0.595 ppbv m  
RT: 6.603 min Scan# 2012  
Delta R.T. 0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

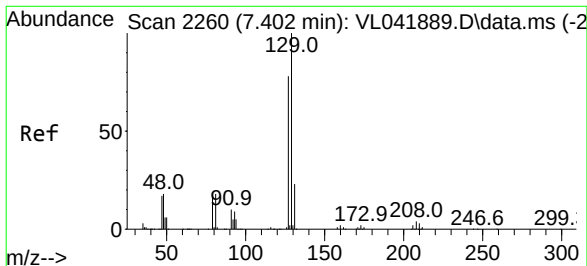
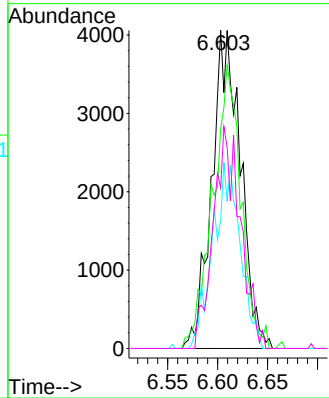
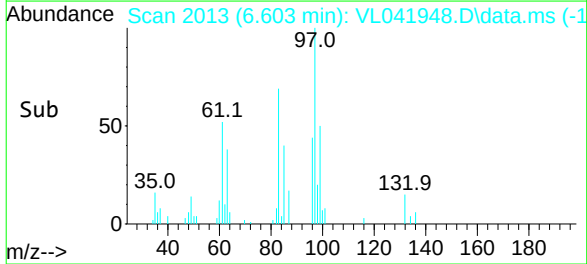
Instrument : MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025



Tgt Ion: 97 Resp: 8122  
Ion Ratio Lower Upper  
97 100  
83 69.2 70.4 105.6#  
85 40.1 45.0 67.4#  
99 50.5 48.1 72.1

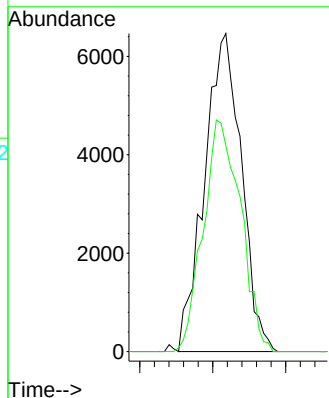
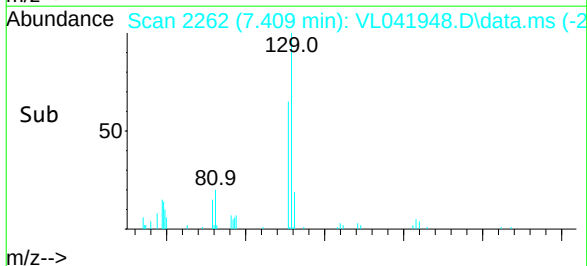
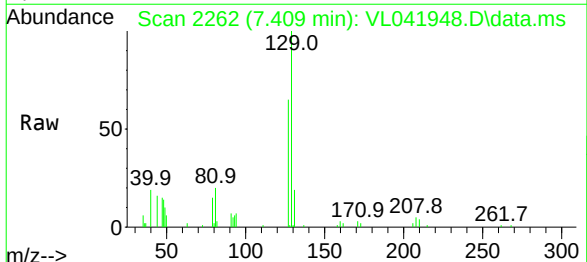
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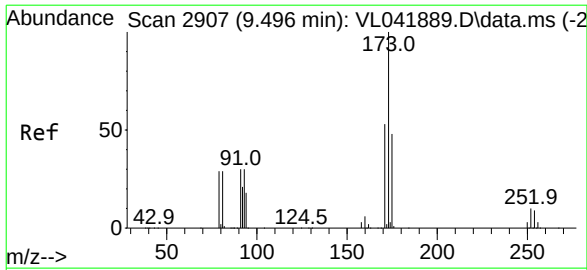
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#48  
Dibromochloromethane  
Concen: 0.540 ppbv  
RT: 7.409 min Scan# 2262  
Delta R.T. 0.007 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

Tgt Ion:129 Resp: 11366  
Ion Ratio Lower Upper  
129 100  
127 73.6 39.3 117.8





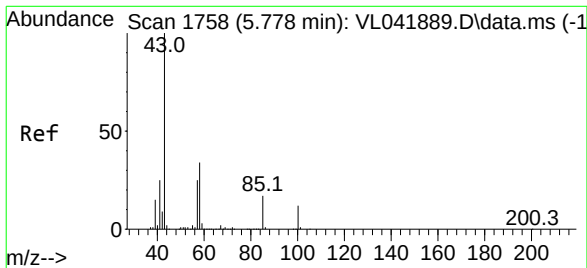
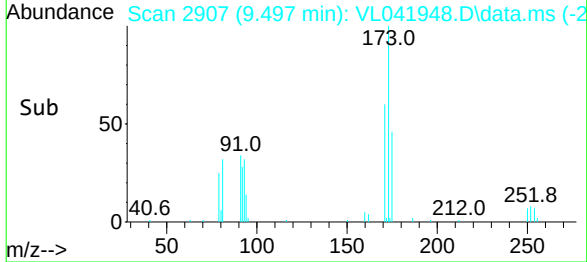
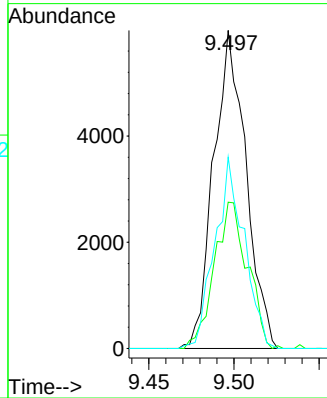
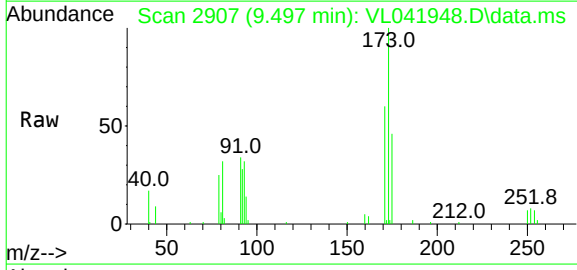
#49  
Bromoform  
Concen: 0.457 ppbv  
RT: 9.497 min Scan# 2903  
Delta R.T. 0.000 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025

Tgt Ion: 173 Resp: 7903  
Ion Ratio Lower Upper  
173 100  
175 47.5 38.4 57.6  
171 54.4 41.4 62.2

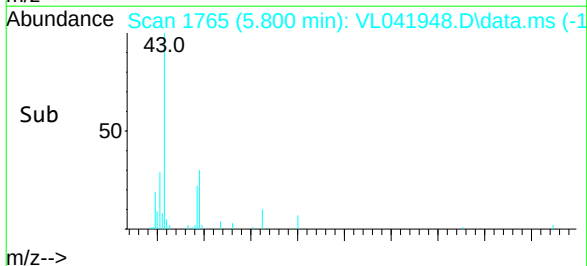
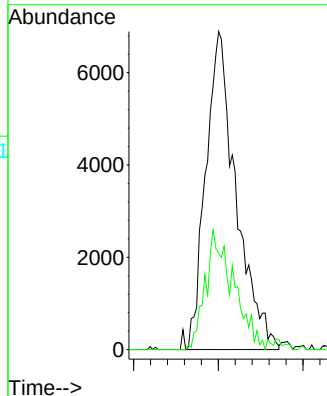
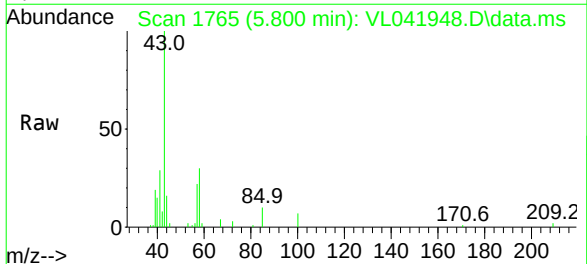
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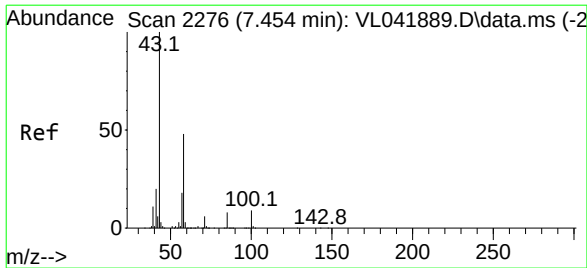
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#50  
4-Methyl-2-Pentanone  
Concen: 0.493 ppbv m  
RT: 5.800 min Scan# 1765  
Delta R.T. 0.023 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

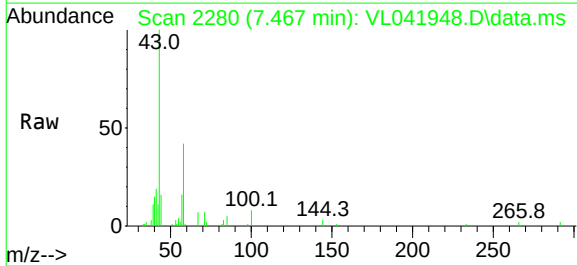
Tgt Ion: 43 Resp: 17140  
Ion Ratio Lower Upper  
43 100  
58 35.7 29.0 43.6





#51  
2-Hexanone  
Concen: 0.446 ppbv m  
RT: 7.467 min Scan# 2276  
Delta R.T. 0.013 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

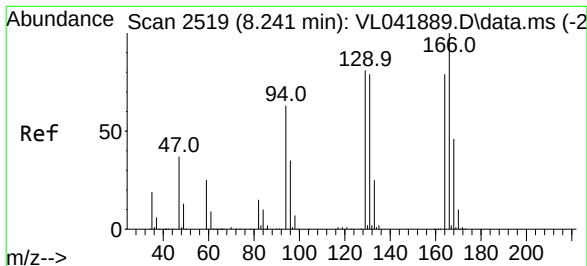
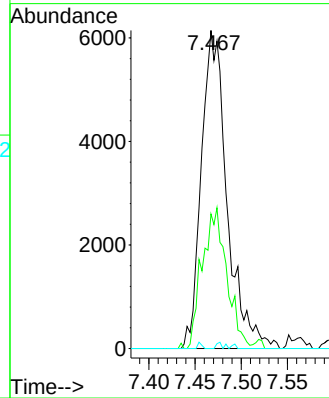
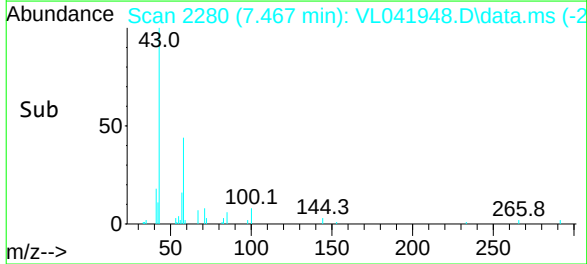
Instrument : MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025



Tgt Ion: 43 Resp: 11900  
Ion Ratio Lower Upper  
43 100  
58 0.0 40.4 60.6#  
98 0.3 0.2 0.2#

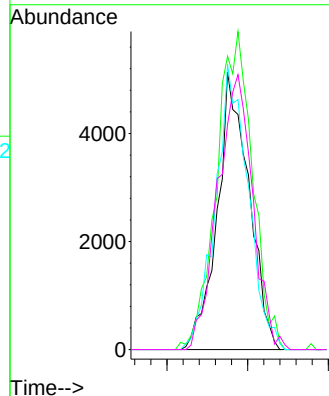
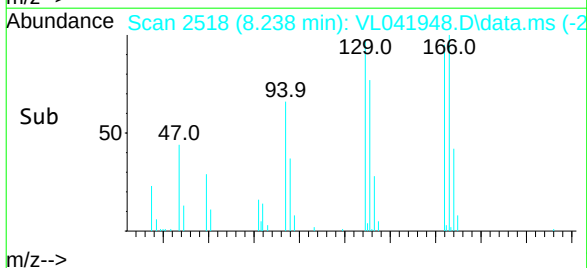
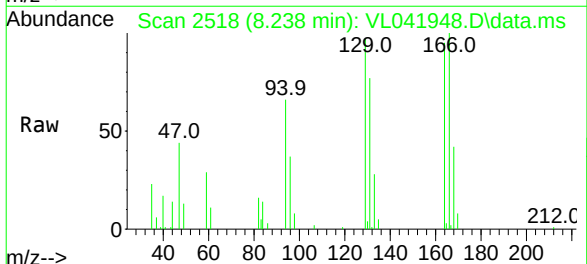
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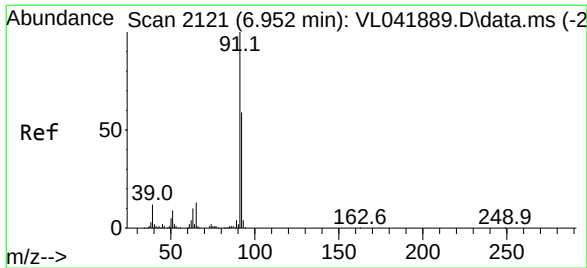
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#52  
Tetrachloroethene  
Concen: 0.549 ppbv  
RT: 8.238 min Scan# 2518  
Delta R.T. -0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

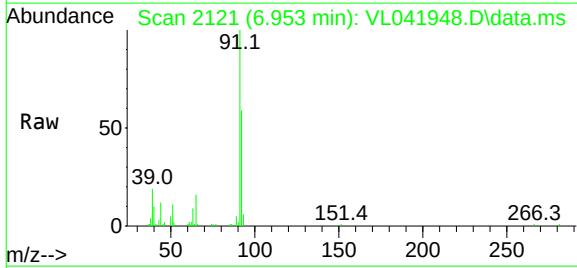
Tgt Ion:164 Resp: 6982  
Ion Ratio Lower Upper  
164 100  
166 103.2 100.8 151.2  
129 102.8 82.0 123.0  
131 81.2 80.2 120.2





#53  
Toluene  
Concen: 0.442 ppbv  
RT: 6.953 min Scan# 2121  
Delta R.T. 0.000 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

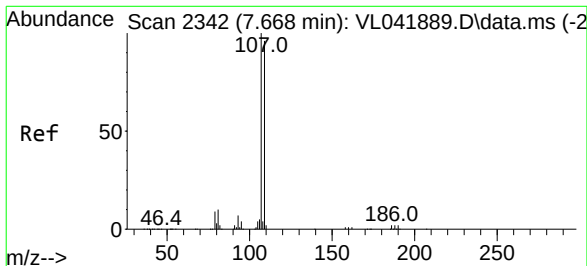
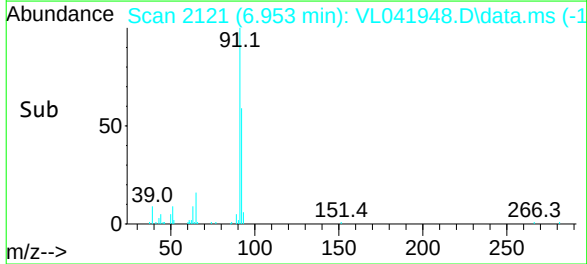
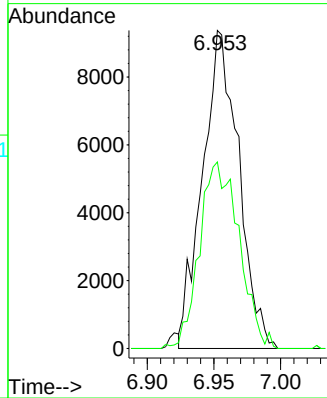
Instrument : MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025



Tgt Ion: 91 Resp: 17686  
Ion Ratio Lower Upper  
91 100  
92 64.1 47.4 71.0

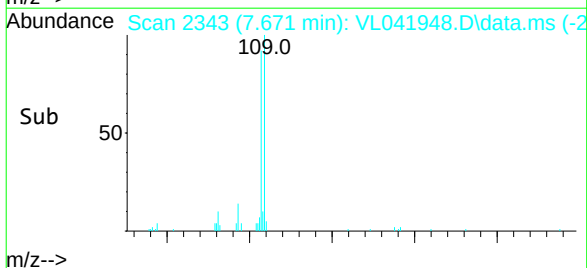
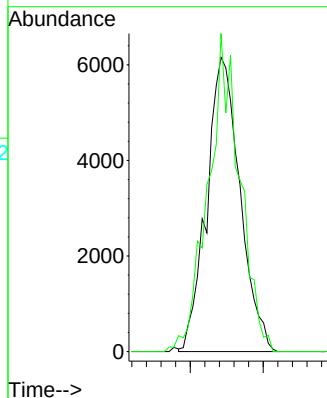
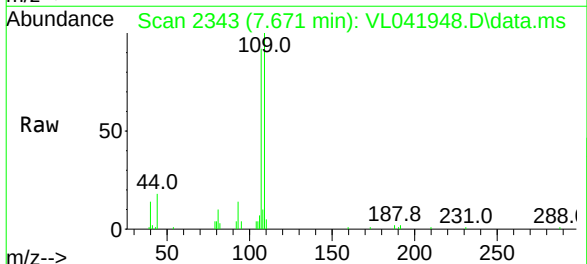
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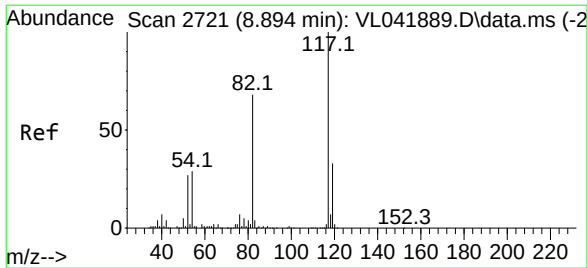
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#54  
1,2-Dibromoethane  
Concen: 0.520 ppbv  
RT: 7.671 min Scan# 2343  
Delta R.T. 0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

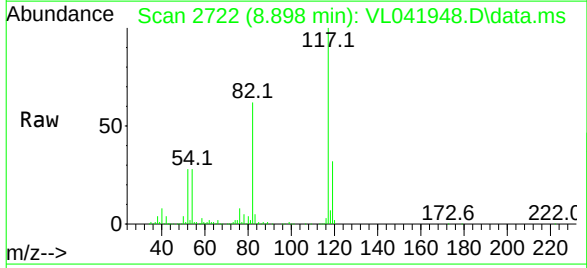
Tgt Ion:107 Resp: 9762  
Ion Ratio Lower Upper  
107 100  
109 108.1 76.7 115.1





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.898 min Scan# 2721  
Delta R.T. 0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

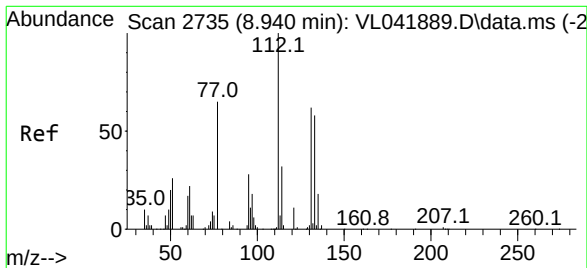
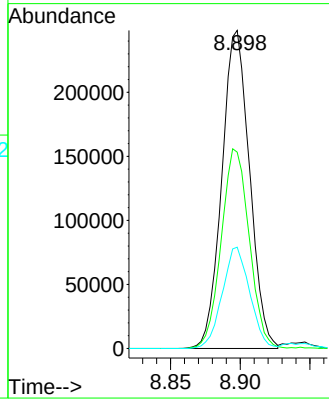
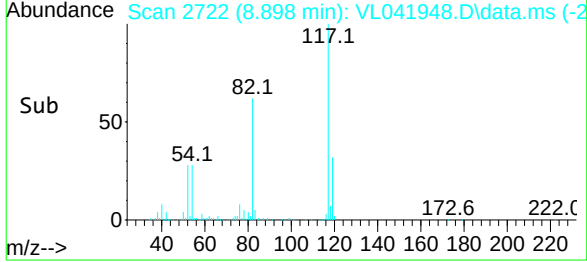
Instrument : MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025



Tgt Ion:117 Resp: 343866  
Ion Ratio Lower Upper  
117 100  
82 63.5 54.2 81.4  
119 33.3 25.0 37.6

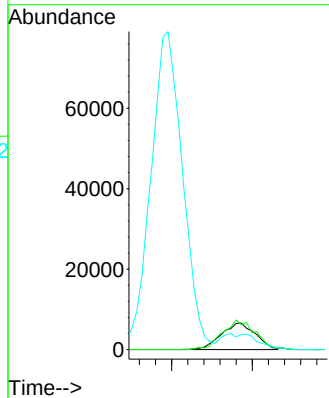
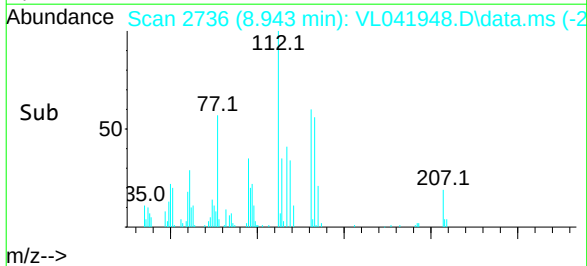
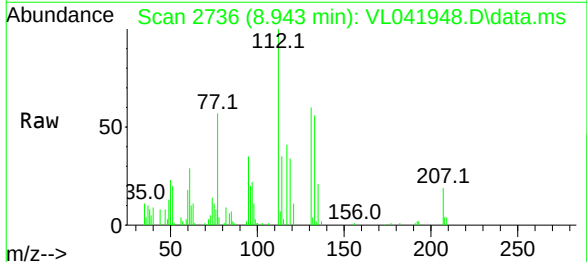
Manual Integrations  
APPROVED

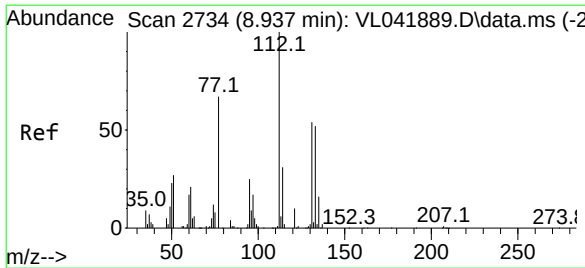
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.569 ppbv  
RT: 8.943 min Scan# 2736  
Delta R.T. 0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

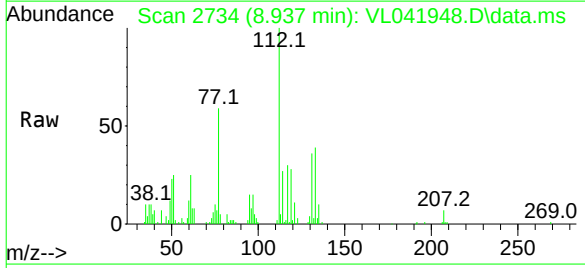
Tgt Ion:131 Resp: 9768  
Ion Ratio Lower Upper  
131 100  
133 107.0 76.0 114.0  
119 1173.0 49.7 74.5#





#57  
Chlorobenzene  
Concen: 0.638 ppbv  
RT: 8.937 min Scan# 2734  
Delta R.T. 0.000 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

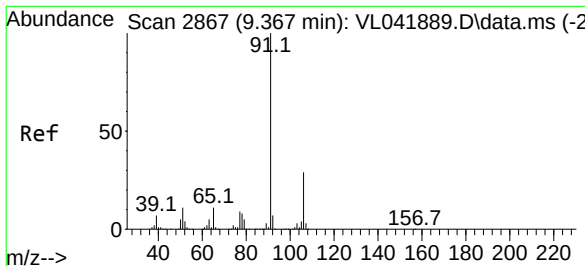
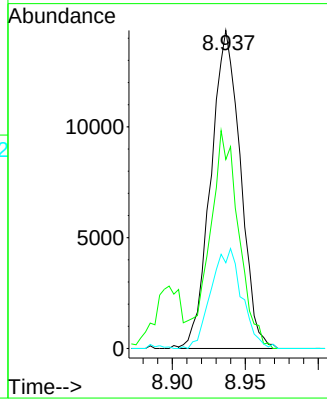
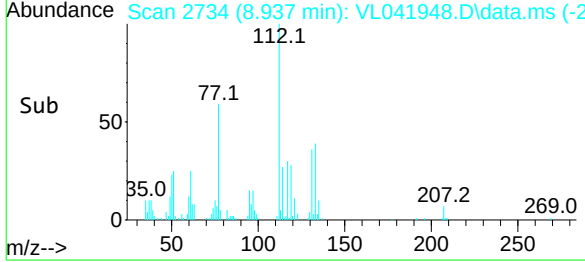
Instrument : MSVOA\_1  
ClientSampleId :  
LOQ-AIR-02-QT1-2025



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 59.4  | 54.6  | 82.0  |
| 114     | 26.9  | 28.2  | 34.4  |

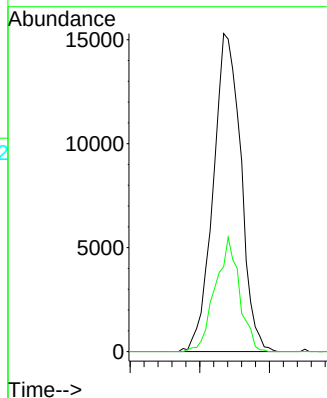
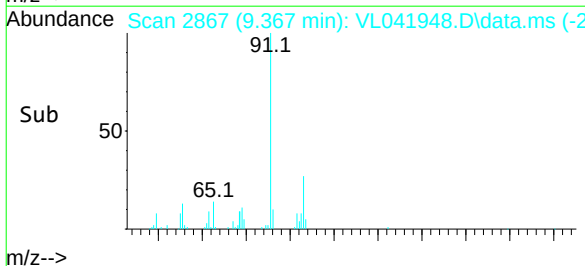
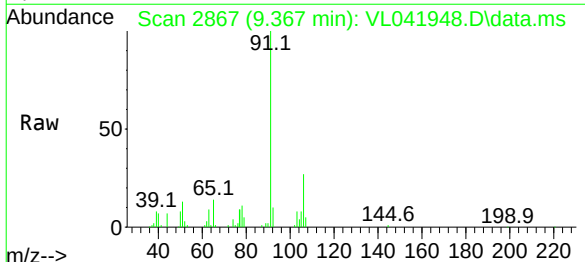
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025

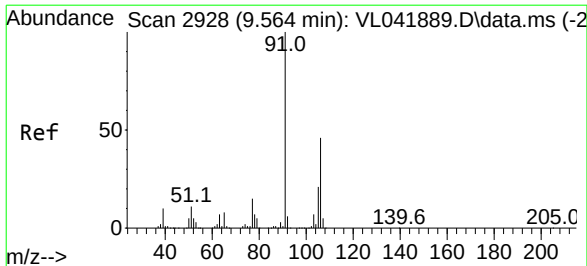


#58  
Ethyl Benzene  
Concen: 0.392 ppbv  
RT: 9.367 min Scan# 2867  
Delta R.T. 0.000 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 26.7  | 23.1  | 34.7  |







#59

m/p-Xylene

Concen: 0.877 ppbv m

RT: 9.561 min Scan# 29

Delta R.T. -0.003 min

Lab File: VL041948.D

Acq: 27 Jan 2025 13:05

Instrument :

MSVOA\_L

ClientSampleId :

LOQ-AIR-02-QT1-2025

Tgt Ion: 91 Resp: 37787

Ion Ratio Lower Upper

91 100

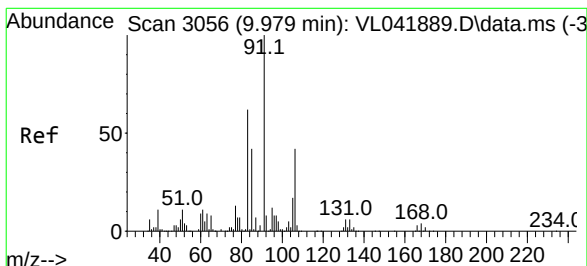
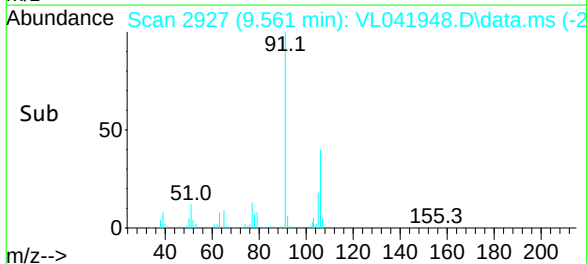
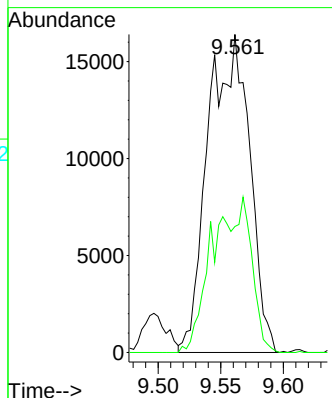
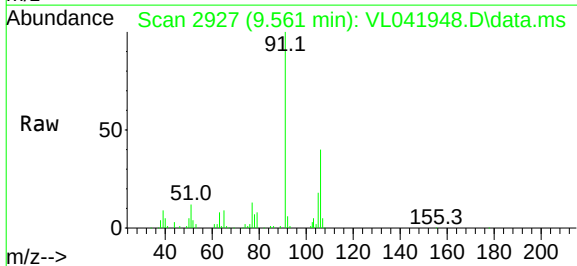
106 46.1 36.0 54.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/30/2025

Supervised By :Mahesh Dadoda 01/30/2025



#60

o-Xylene

Concen: 0.421 ppbv

RT: 9.979 min Scan# 3056

Delta R.T. 0.000 min

Lab File: VL041948.D

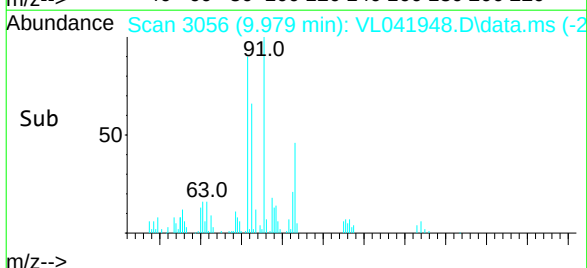
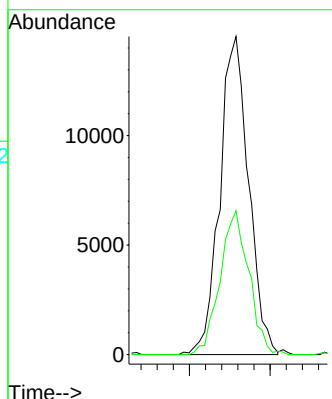
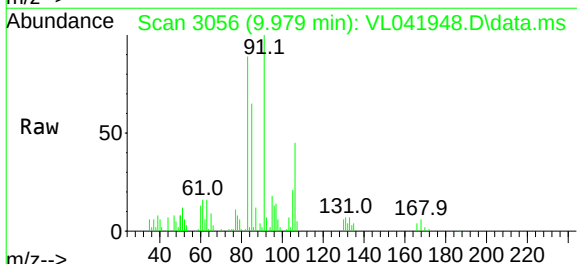
Acq: 27 Jan 2025 13:05

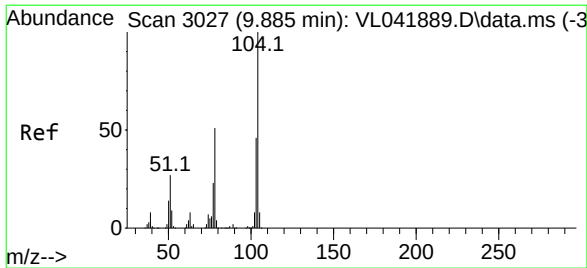
Tgt Ion: 91 Resp: 17992

Ion Ratio Lower Upper

91 100

106 45.3 21.3 63.9





#61

Styrene

Concen: 0.362 ppbv

RT: 9.888 min Scan# 3027

Delta R.T. 0.003 min

Lab File: VL041948.D

Acq: 27 Jan 2025 13:05

Instrument :

MSVOA\_L

ClientSampleId :

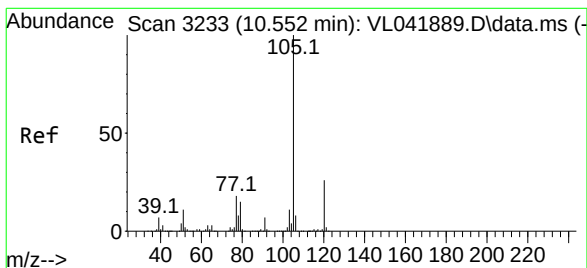
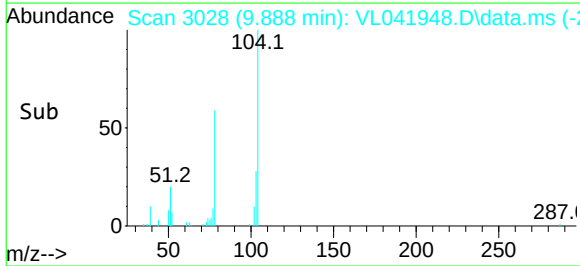
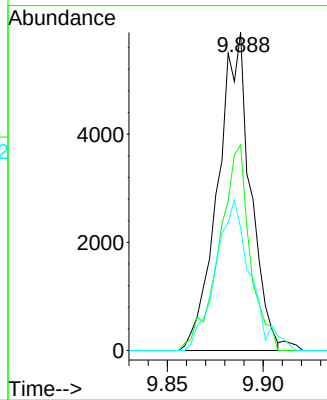
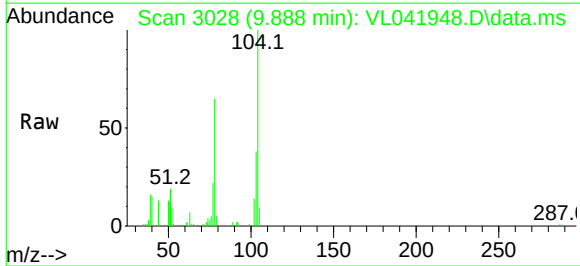
LOQ-AIR-02-QT1-2025

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 104   | Resp: | 6941 |
| Ion Ratio | Lower | Upper |      |
| 104       | 100   |       |      |
| 78        | 61.2  | 41.0  | 61.6 |
| 103       | 50.8  | 37.2  | 55.8 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#62

Isopropylbenzene

Concen: 0.457 ppbv

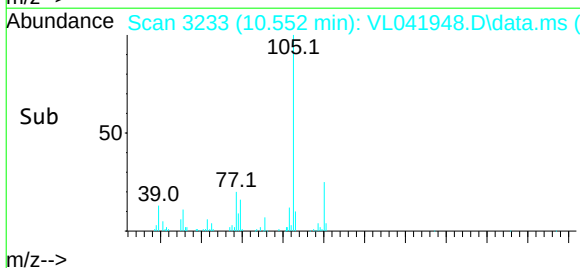
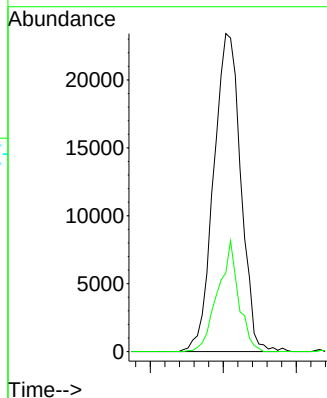
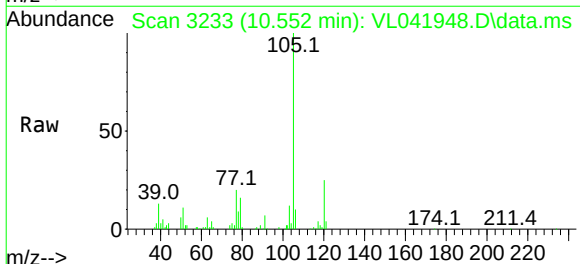
RT: 10.552 min Scan# 3233

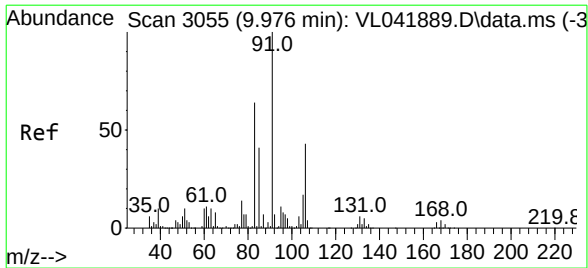
Delta R.T. 0.000 min

Lab File: VL041948.D

Acq: 27 Jan 2025 13:05

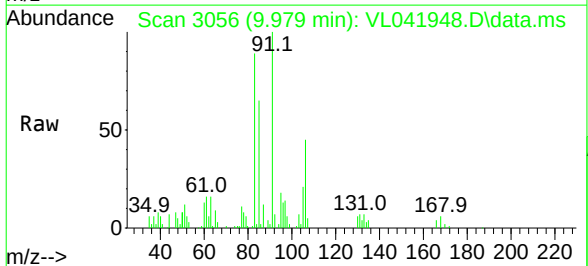
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 30211 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 26.8  | 20.3  | 30.5  |





#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.610 ppbv  
RT: 9.979 min Scan# 3056  
Delta R.T. 0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

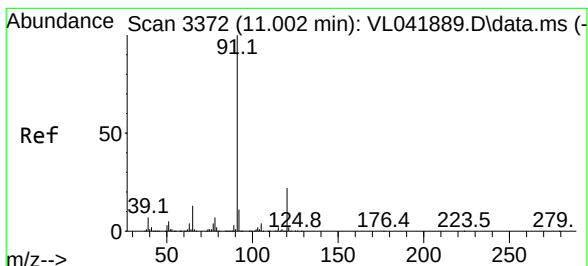
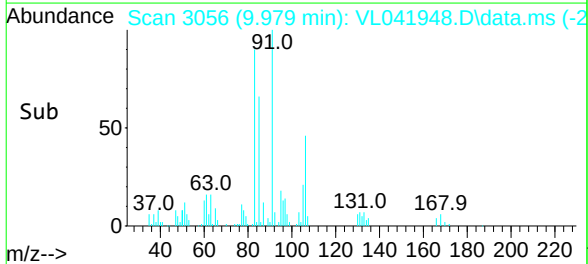
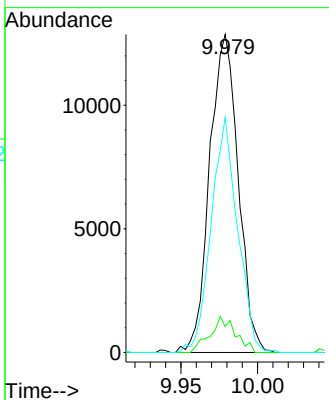
Instrument : MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 16675 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 131      | 10.1  | 4.8   | 14.4  |
| 85       | 68.4  | 32.4  | 97.2  |

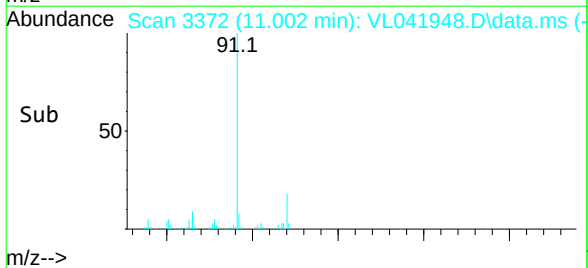
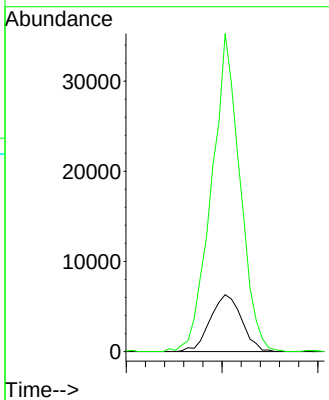
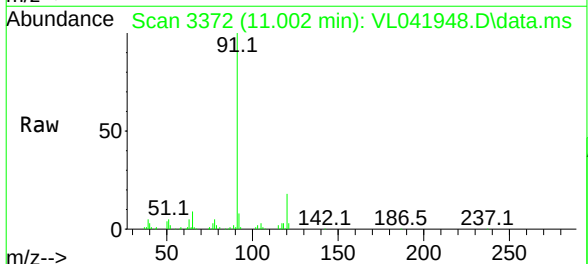
Manual Integrations  
APPROVED

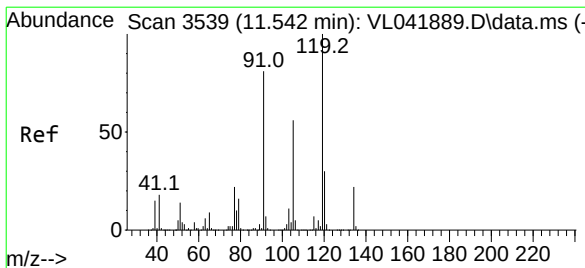
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#64  
n-propylbenzene  
Concen: 0.430 ppbv  
RT: 11.002 min Scan# 3372  
Delta R.T. 0.000 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 120   | Resp: | 7183  |
| Ion      | Ratio | Lower | Upper |
| 120      | 100   |       |       |
| 91       | 509.0 | 374.1 | 561.1 |





#65

tert-Butylbenzene

Concen: 0.450 ppbv

RT: 11.545 min Scan# 3539

Delta R.T. 0.003 min

Lab File: VL041948.D

Acq: 27 Jan 2025 13:05

Instrument :

MSVOA\_L

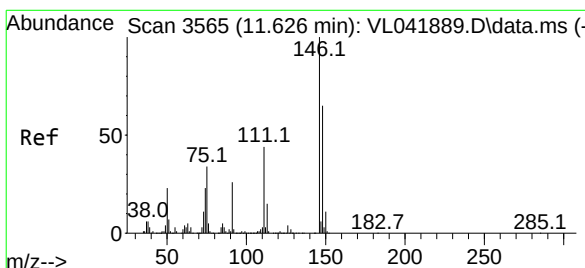
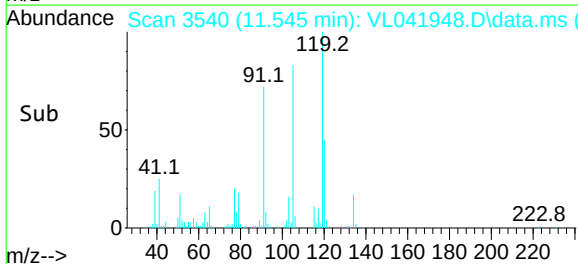
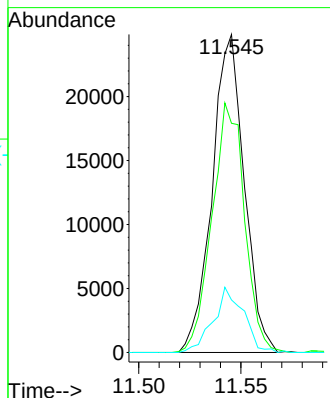
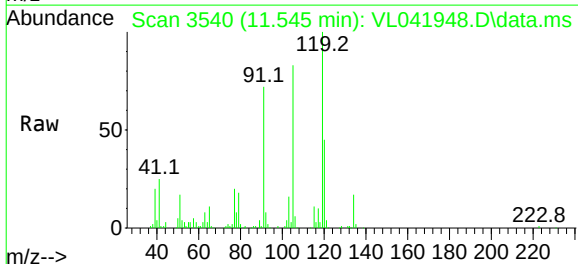
ClientSampleId :

LOQ-AIR-02-QT1-2025

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 27122 |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 91       | 79.5  | 64.6  | 97.0  |
| 134      | 19.3  | 16.8  | 25.2  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#66

Benzyl Chloride

Concen: 0.453 ppbv

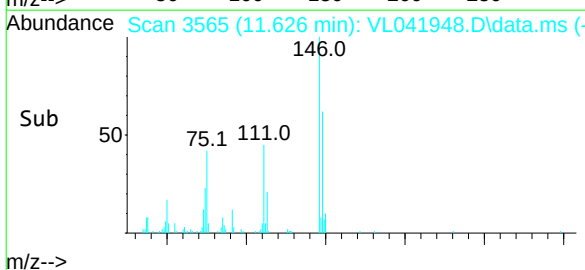
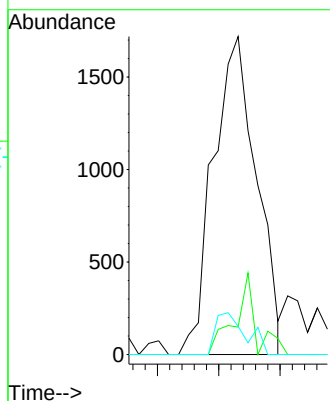
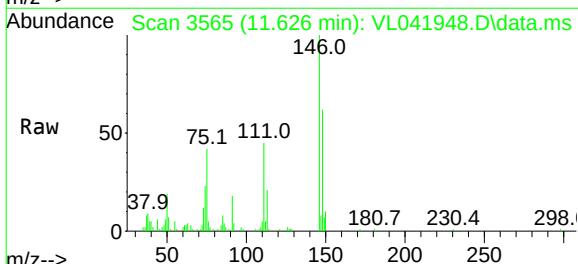
RT: 11.626 min Scan# 3565

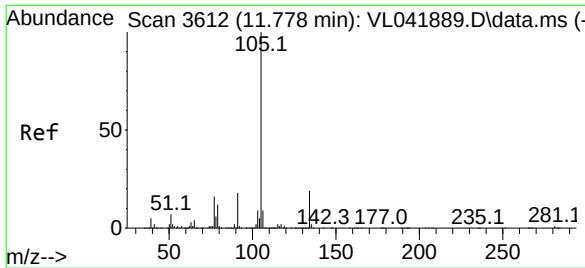
Delta R.T. 0.000 min

Lab File: VL041948.D

Acq: 27 Jan 2025 13:05

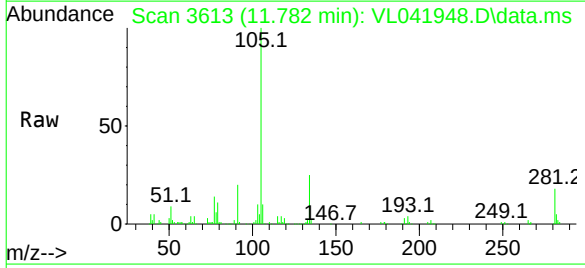
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 1689  |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 126      | 12.6  | 14.1  | 21.1# |
| 128      | 9.2   | 4.3   | 6.5#  |





#67  
 sec-Butylbenzene  
 Concen: 0.457 ppbv  
 RT: 11.782 min Scan# 3612  
 Delta R.T. 0.003 min  
 Lab File: VL041948.D  
 Acq: 27 Jan 2025 13:05

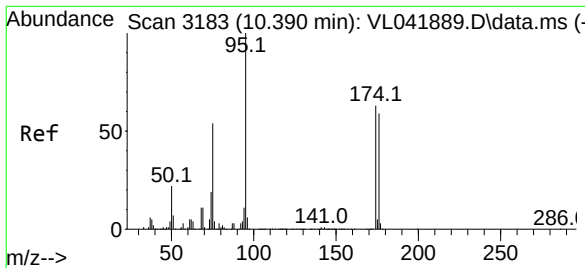
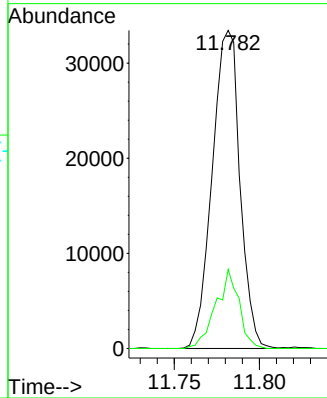
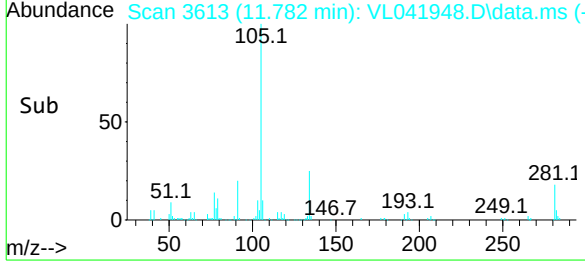
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 LOQ-AIR-02-QT1-2025



Tgt Ion: 105 Resp: 37929  
 Ion Ratio Lower Upper  
 105 100  
 134 20.7 15.1 22.7

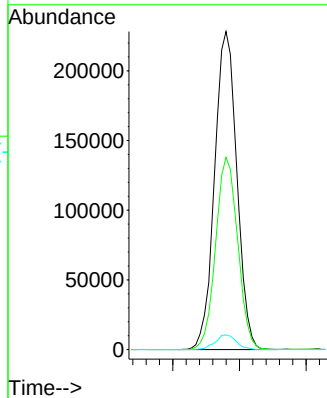
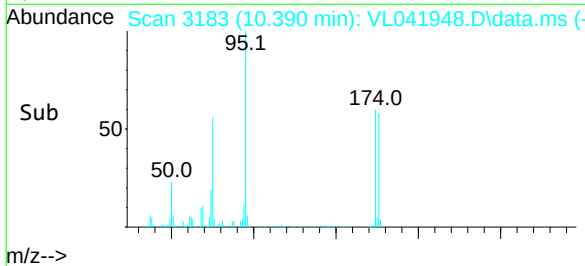
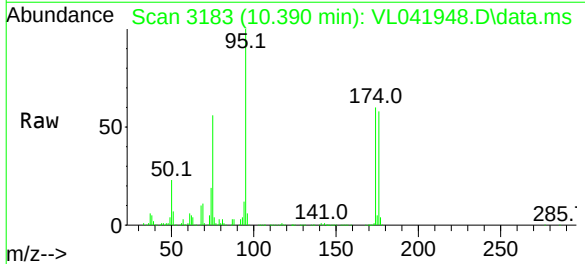
Manual Integrations  
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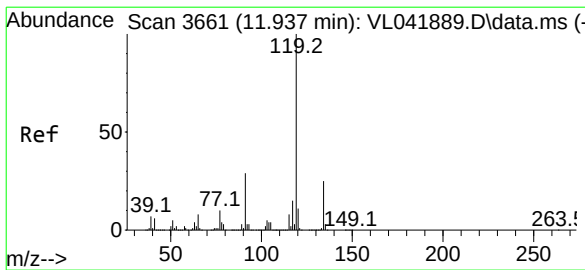
Reviewed By : Semsettin Yesilyurt 01/30/2025  
 Supervised By : Mahesh Dadoda 01/30/2025



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.780 ppbv  
 RT: 10.390 min Scan# 3183  
 Delta R.T. 0.000 min  
 Lab File: VL041948.D  
 Acq: 27 Jan 2025 13:05

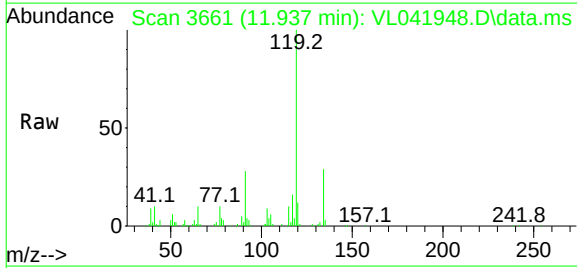
Tgt Ion: 95 Resp: 264875  
 Ion Ratio Lower Upper  
 95 100  
 174 59.9 49.0 73.4  
 175 4.4 3.8 5.8





#69  
p-Isopropyltoluene  
Concen: 0.418 ppbv  
RT: 11.937 min Scan# 3661  
Delta R.T. 0.000 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

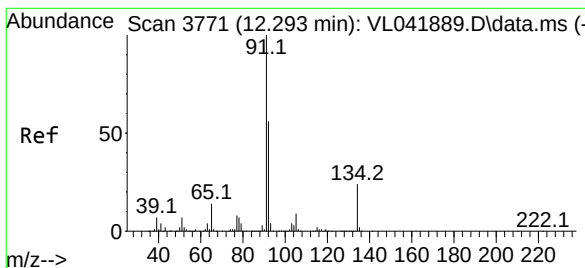
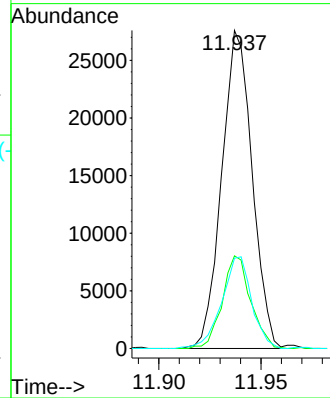
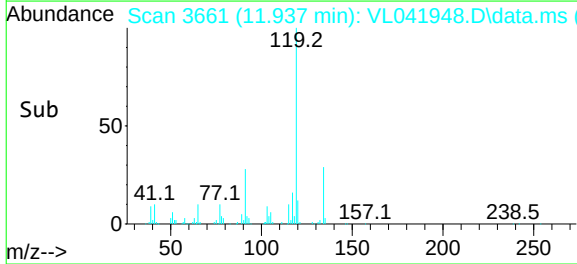
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 28553 |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 134      | 27.2  | 19.8  | 29.6  |
| 91       | 28.6  | 23.0  | 34.4  |

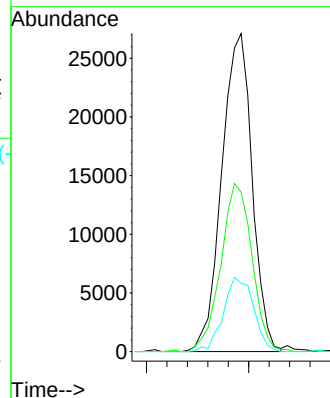
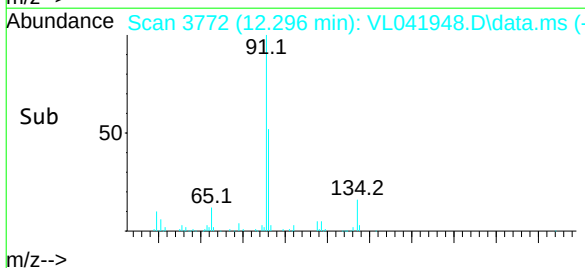
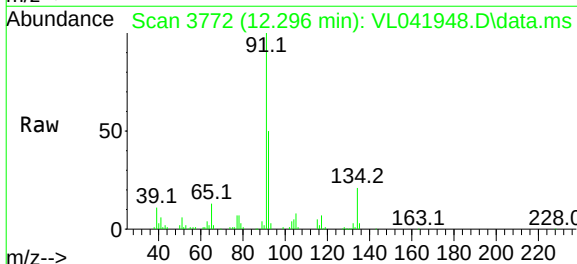
Manual Integrations  
APPROVED

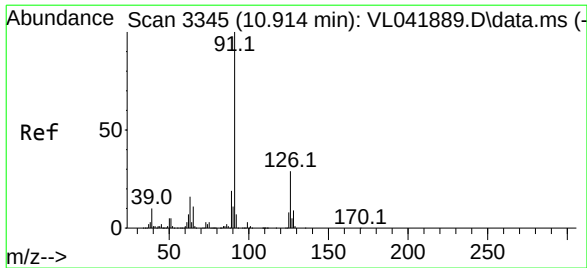
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#70  
n-Butylbenzene  
Concen: 0.413 ppbv  
RT: 12.296 min Scan# 3772  
Delta R.T. 0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

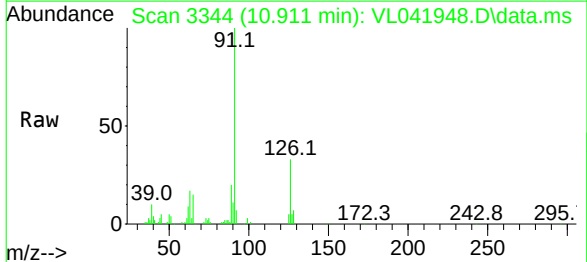
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 27980 |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 54.5  | 43.8  | 65.6  |
| 134      | 23.2  | 19.0  | 28.6  |





#71  
2-Chlorotoluene  
Concen: 0.438 ppbv  
RT: 10.911 min Scan# 3345  
Delta R.T. -0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

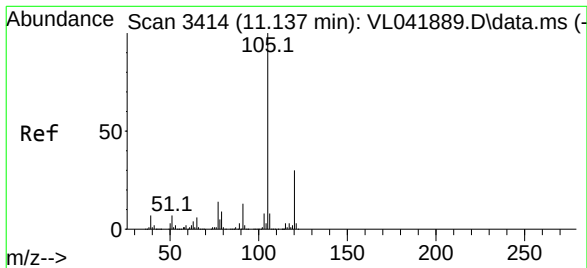
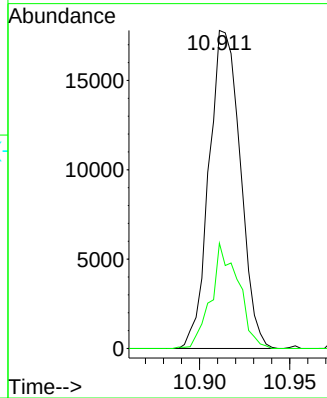
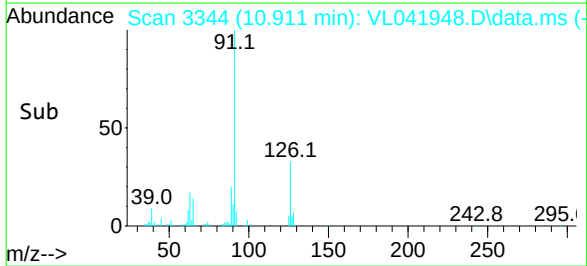
Instrument : MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025



Tgt Ion: 91 Resp: 21435  
Ion Ratio Lower Upper  
91 100  
126 29.1 11.7 46.7

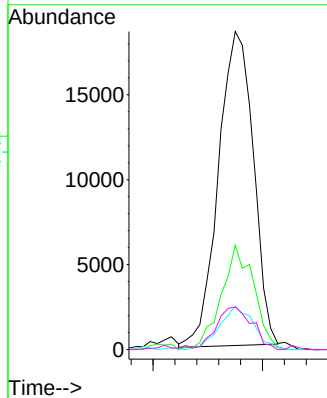
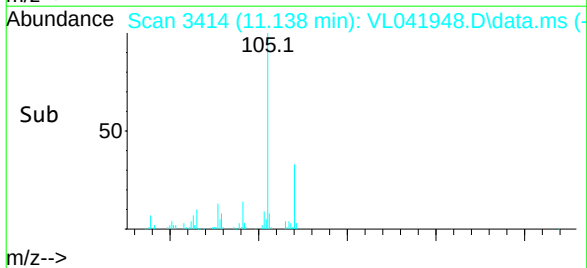
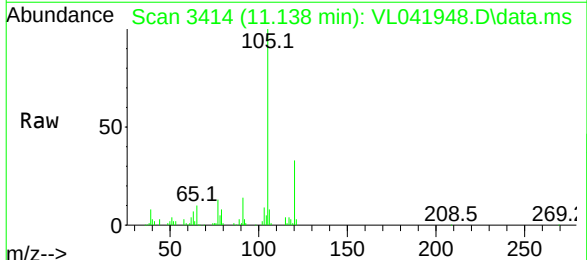
Manual Integrations  
APPROVED

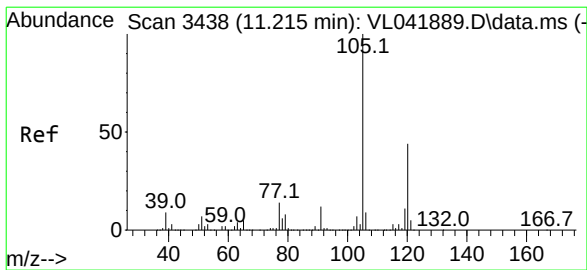
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#72  
4-Ethyltoluene  
Concen: 0.401 ppbv  
RT: 11.138 min Scan# 3414  
Delta R.T. 0.000 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

Tgt Ion:105 Resp: 20501  
Ion Ratio Lower Upper  
105 100  
120 32.1 23.7 35.5  
91 14.0 10.2 15.2  
77 15.1 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 0.426 ppbv

RT: 11.215 min Scan# 3438

Delta R.T. 0.000 min

Lab File: VL041948.D

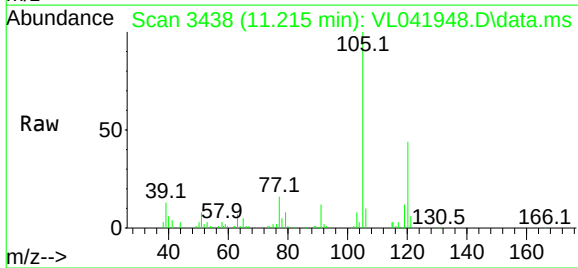
Acq: 27 Jan 2025 13:05

Instrument :

MSVOA\_L

ClientSampleId :

LOQ-AIR-02-QT1-2025



Tgt Ion:105 Resp: 19241

Ion Ratio Lower Upper

105 100

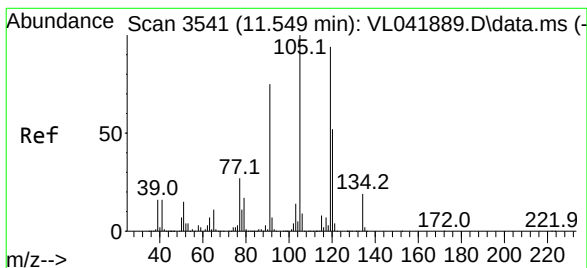
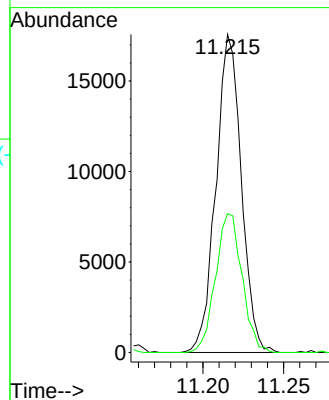
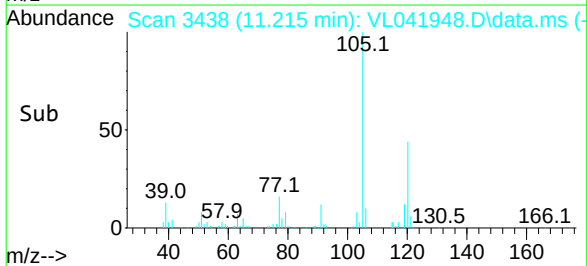
120 43.6 35.4 53.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/30/2025

Supervised By :Mahesh Dadoda 01/30/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.464 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. 0.000 min

Lab File: VL041948.D

Acq: 27 Jan 2025 13:05

Tgt Ion:105 Resp: 22706

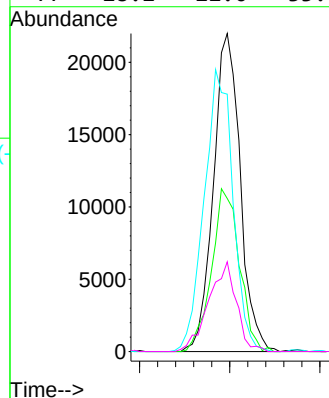
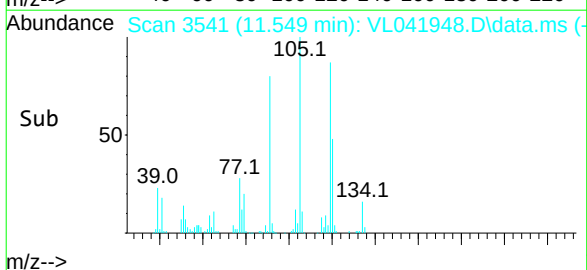
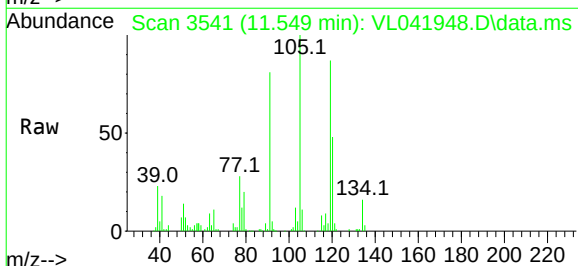
Ion Ratio Lower Upper

105 100

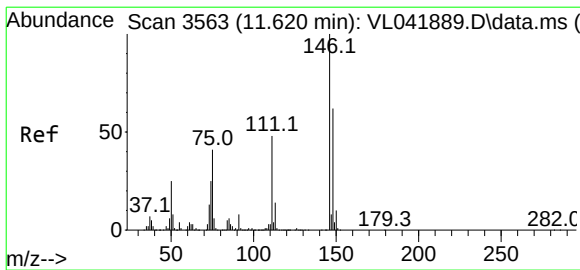
120 48.1 41.4 62.2

91 80.9 60.2 90.2

77 28.2 22.0 33.0

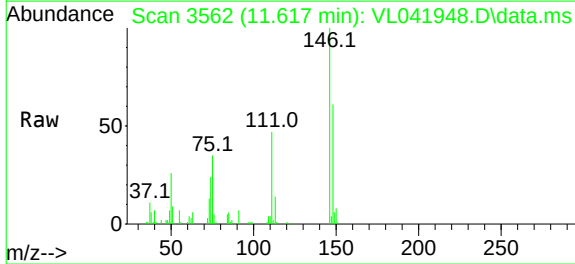






#75  
1,3-Dichlorobenzene  
Concen: 0.570 ppbv  
RT: 11.617 min Scan# 3562  
Delta R.T. -0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

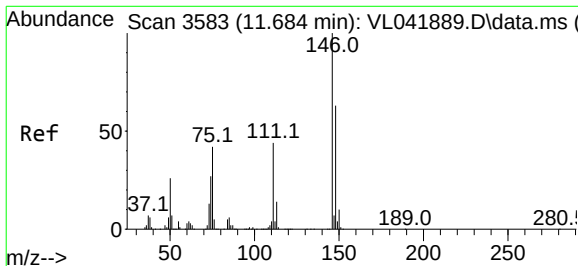
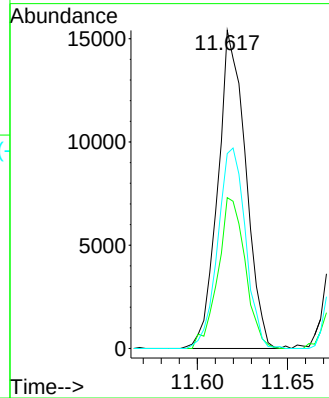
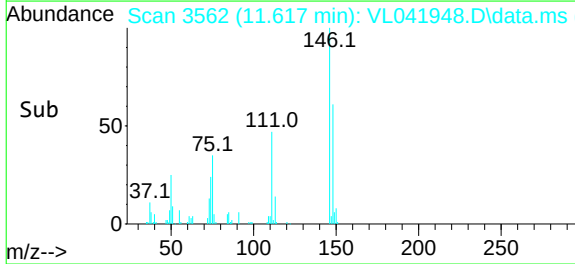
Instrument : MSVOA\_L  
ClientSampleId : LOQ-AIR-02-QT1-2025



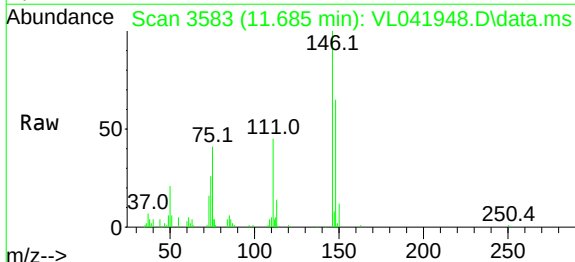
Tgt Ion:146 Resp: 16524  
Ion Ratio Lower Upper  
146 100  
111 46.4 23.6 70.8  
148 62.9 31.4 94.0

Manual Integrations  
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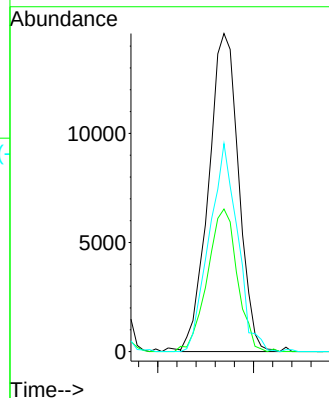
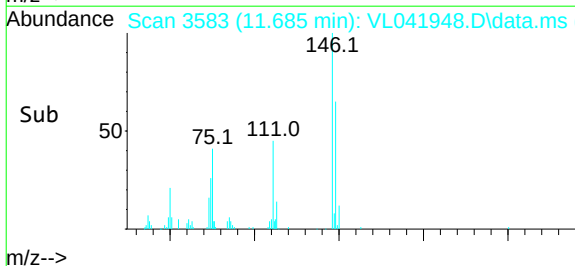
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025

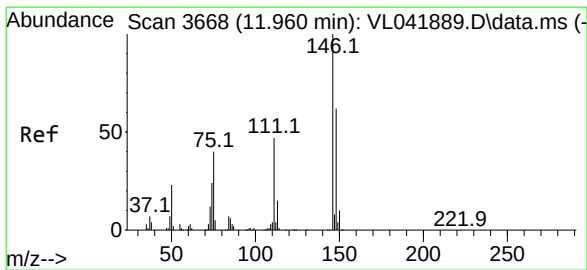


#76  
1,4-Dichlorobenzene  
Concen: 0.562 ppbv  
RT: 11.685 min Scan# 3583  
Delta R.T. 0.000 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05



Tgt Ion:146 Resp: 15923  
Ion Ratio Lower Upper  
146 100  
111 44.5 22.4 67.0  
148 61.7 31.9 95.5





#77

1,2-Dichlorobenzene

Concen: 0.601 ppbv

RT: 11.960 min Scan# 3668

Delta R.T. 0.000 min

Lab File: VL041948.D

Acq: 27 Jan 2025 13:05

Instrument :

MSVOA\_L

ClientSampleId :

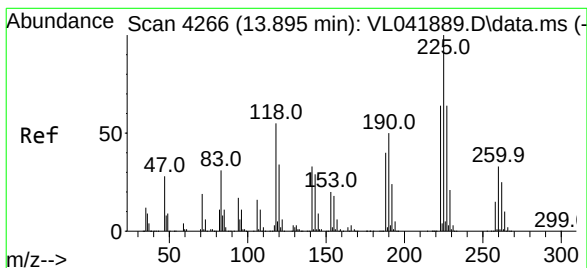
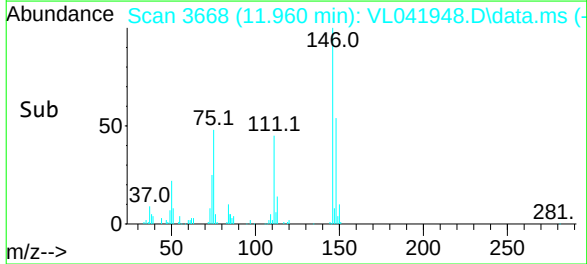
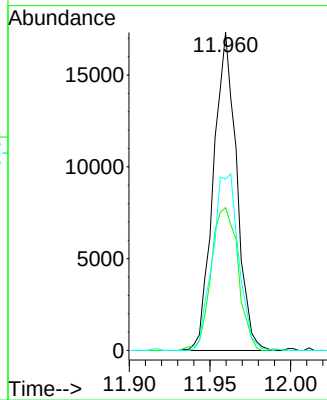
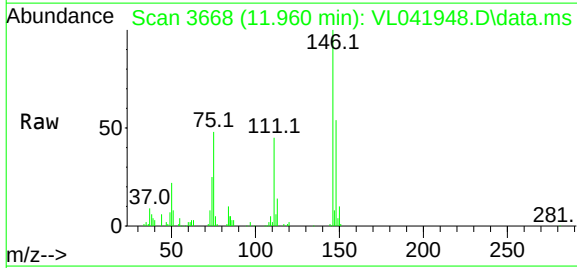
LOQ-AIR-02-QT1-2025

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 17275 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 52.5  | 24.2  | 72.6  |
| 148       | 62.4  | 31.7  | 95.1  |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#78

Hexachloro-1,3-Butadiene

Concen: 0.598 ppbv

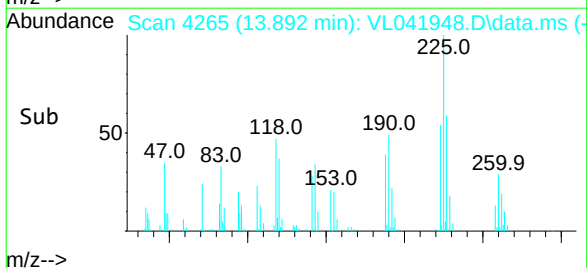
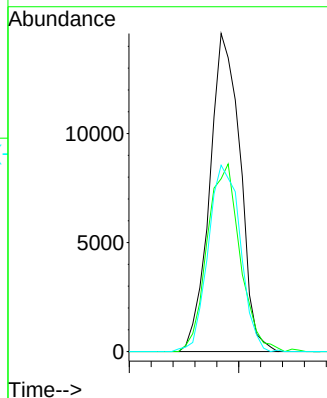
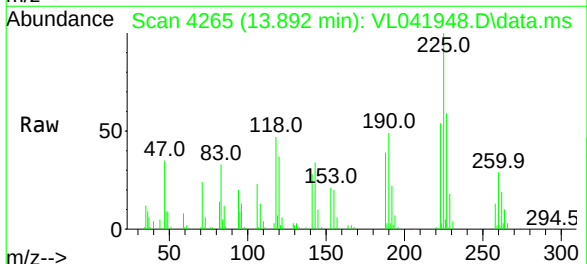
RT: 13.892 min Scan# 4265

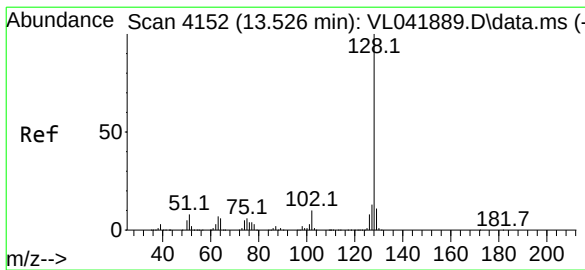
Delta R.T. -0.003 min

Lab File: VL041948.D

Acq: 27 Jan 2025 13:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 225   | Resp: | 14095 |
| Ion Ratio | Lower | Upper |       |
| 225       | 100   |       |       |
| 223       | 63.8  | 50.8  | 76.2  |
| 227       | 62.0  | 50.3  | 75.5  |





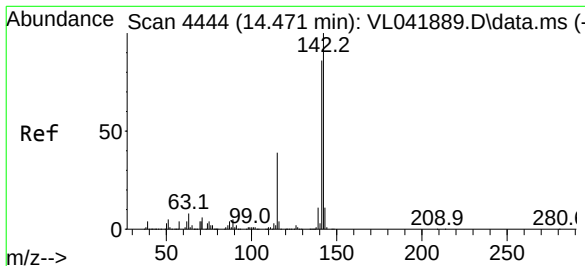
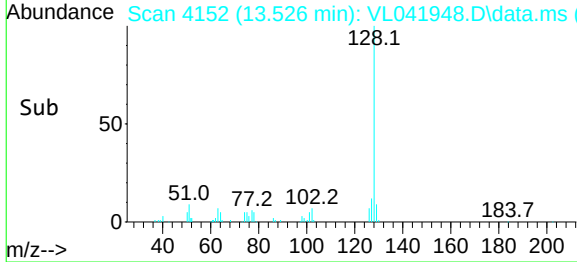
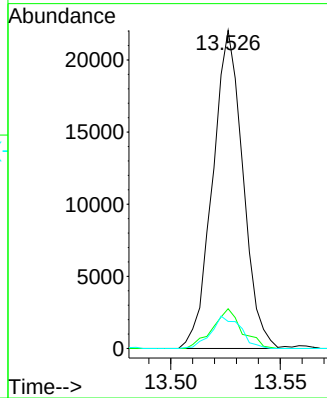
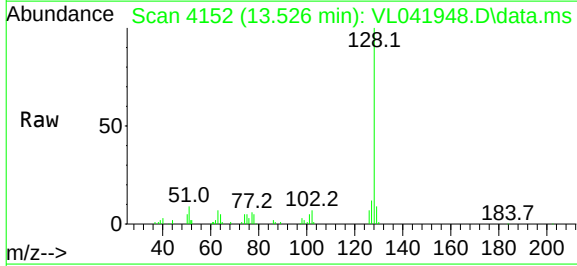
#79  
Naphthalene  
Concen: 0.431 ppbv  
RT: 13.526 min Scan# 4152  
Delta R.T. 0.000 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

Instrument : MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 21208 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 12.5  | 10.2  | 15.4  |
| 129       | 8.5   | 9.1   | 13.7  |

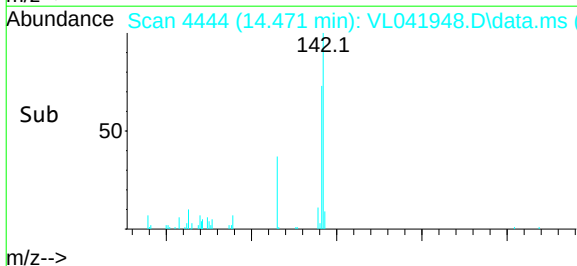
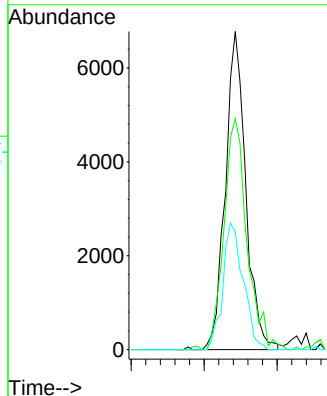
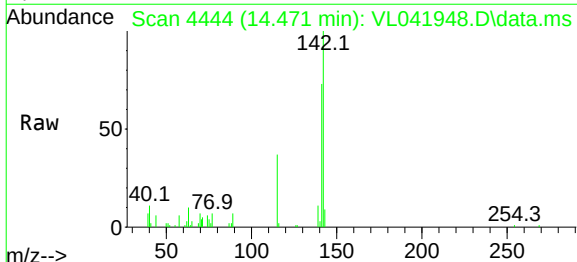
Manual Integrations  
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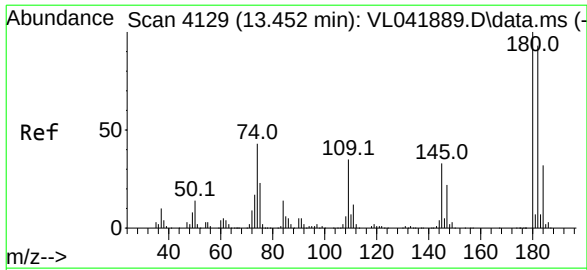
Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025



#80  
Naphthalene, 2-methyl-  
Concen: 0.282 ppbv  
RT: 14.471 min Scan# 4444  
Delta R.T. 0.000 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

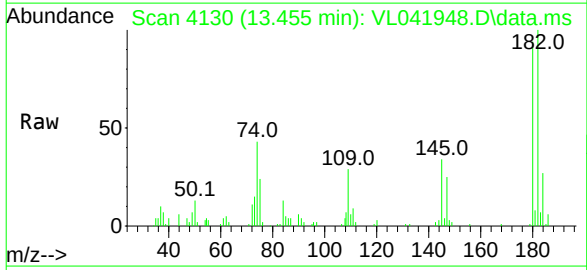
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 6592  |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 81.8  | 68.1  | 102.1 |
| 115       | 39.7  | 31.7  | 47.5  |





#81  
1,2,4-Trichlorobenzene  
Concen: 0.490 ppbv  
RT: 13.455 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL041948.D  
Acq: 27 Jan 2025 13:05

Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT1-2025



| Tgt Ion:  | 180   | Resp: | 11777 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 99.4  | 77.0  | 115.6 |
| 184       | 29.0  | 24.9  | 37.3  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 01/30/2025  
Supervised By :Mahesh Dadoda 01/30/2025

