

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042176.D  
 Acq On : 27 Mar 2025 10:32  
 Operator : SY/MD  
 Sample : VSTDICC0.1  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.1

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:35:34 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Fri Mar 28 01:31:23 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.787  | 49    | 180740   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.955  | 114   | 528028   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.878  | 117   | 481506   | 10.000   | ppbv   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.374 | 95    | 398069   | 10.067   | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 100.700% |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        |          |
| 5) Vinyl Chloride             | 1.580  | 62    | 1274     | 0.115    | ppbv # | 42       |
| 32) 1,1,1-Trichloroethane     | 3.366  | 97    | 4509m    | 0.106    | ppbv   |          |
| 35) Carbon Tetrachloride      | 3.768  | 117   | 4131m    | 0.102    | ppbv   |          |
| 38) Trichloroethene           | 4.551  | 130   | 2306m    | 0.106    | ppbv   |          |
| 52) Tetrachloroethene         | 8.225  | 164   | 1895m    | 0.091    | ppbv   |          |
| 54) 1,2-Dibromoethane         | 7.652  | 107   | 3033m    | 0.108    | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83    | 3852m    | 0.093    | ppbv   |          |
| 79) Naphthalene               | 13.513 | 128   | 7882     | 0.084    | ppbv # | 92       |
| -----                         |        |       |          |          |        |          |

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

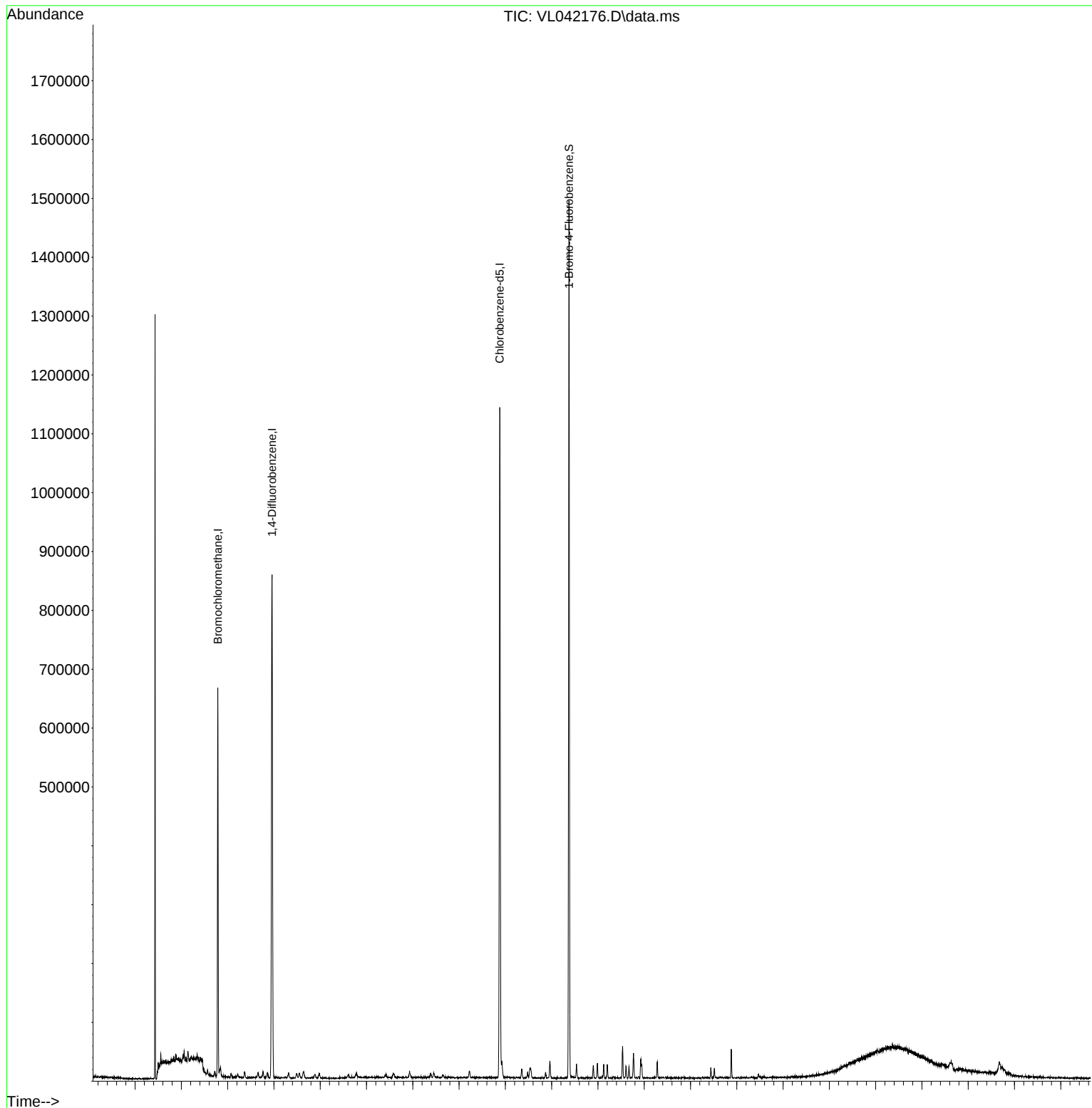
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042176.D  
Acq On : 27 Mar 2025 10:32  
Operator : SY/MD  
Sample : VSTDICC0.1  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

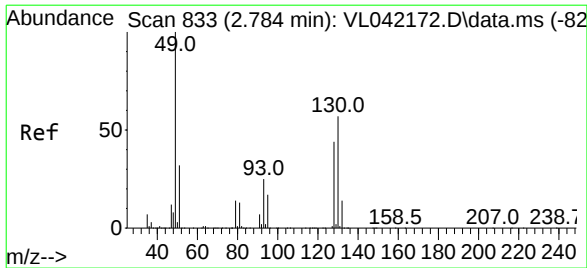
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.1

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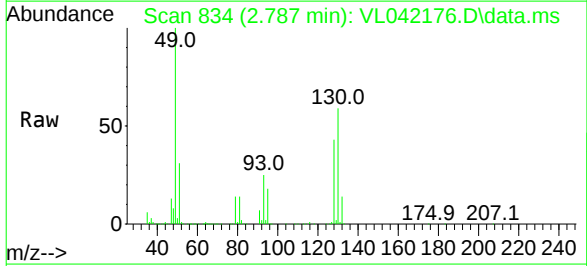
Quant Time: Mar 28 01:35:34 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Mar 28 01:31:23 2025  
Response via : Initial Calibration





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 833  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

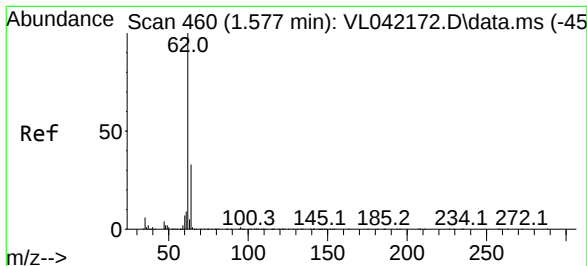
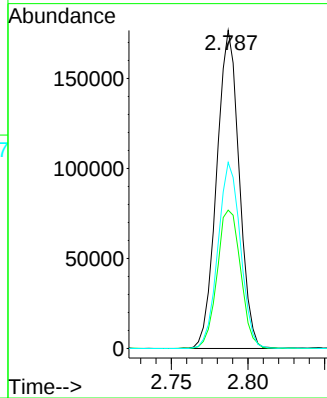
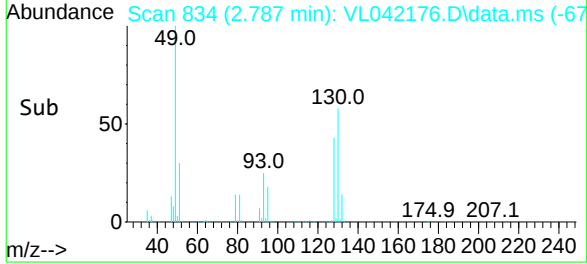
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1



Tgt Ion: 49 Resp: 180740  
Ion Ratio Lower Upper  
49 100  
128 45.6 22.9 68.5  
130 58.5 28.8 86.4

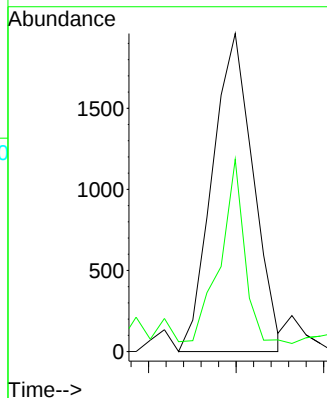
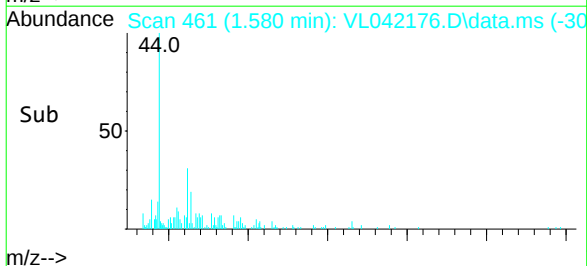
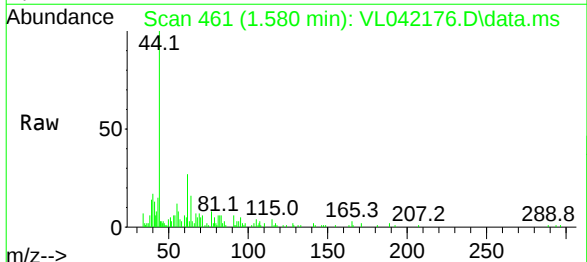
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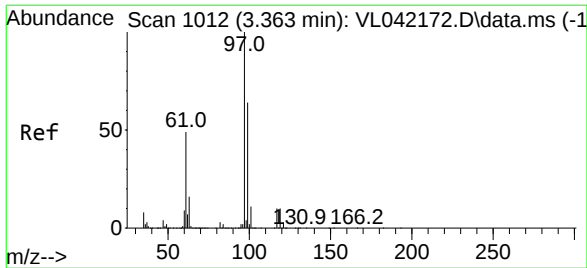
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#5  
Vinyl Chloride  
Concen: 0.115 ppbv  
RT: 1.580 min Scan# 461  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

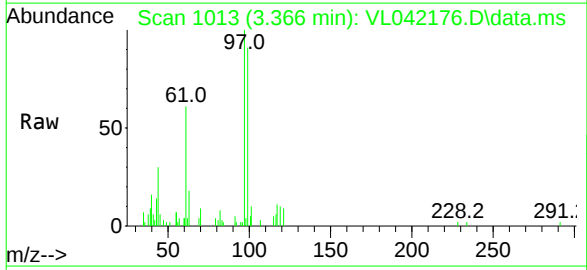
Tgt Ion: 62 Resp: 1274  
Ion Ratio Lower Upper  
62 100  
64 66.4 26.6 40.0#





#32  
1,1,1-Trichloroethane  
Concen: 0.106 ppbv m  
RT: 3.366 min Scan# 1012  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

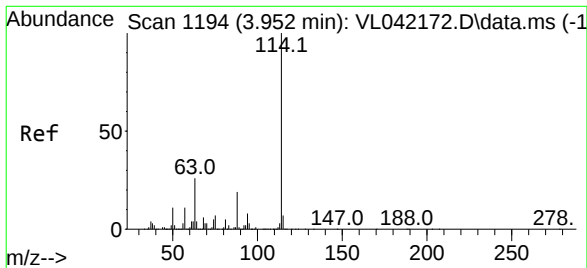
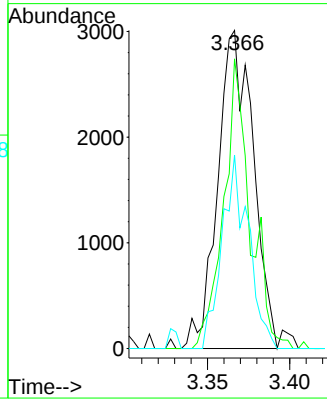
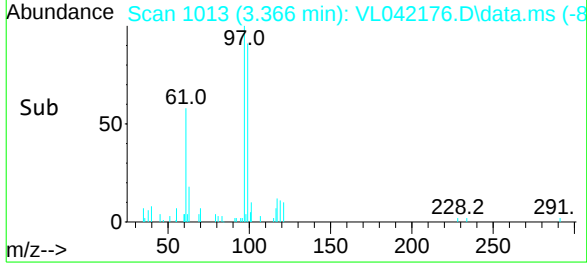
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.1



Tgt Ion: 97 Resp: 4509  
Ion Ratio Lower Upper  
97 100  
99 68.6 51.5 77.3  
61 45.4 38.7 58.1

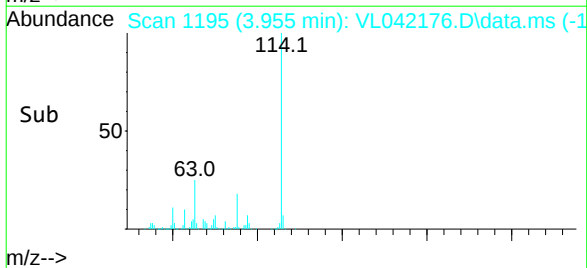
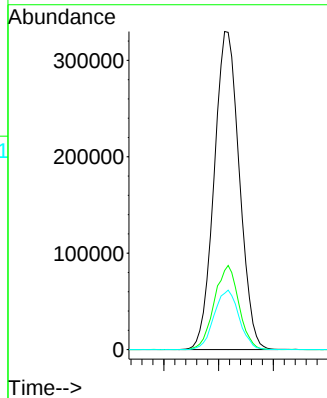
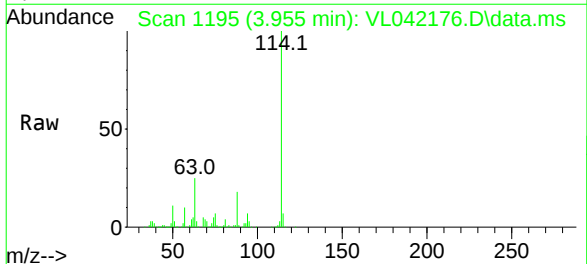
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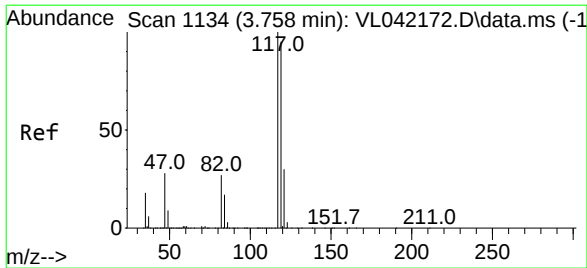
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.955 min Scan# 1195  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

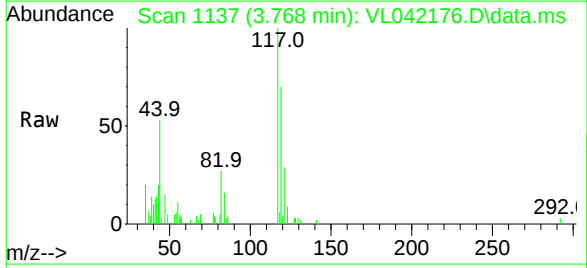
Tgt Ion:114 Resp: 528028  
Ion Ratio Lower Upper  
114 100  
63 25.8 20.7 31.1  
88 18.5 15.0 22.4





#35  
Carbon Tetrachloride  
Concen: 0.102 ppbv m  
RT: 3.768 min Scan# 1134  
Delta R.T. 0.010 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

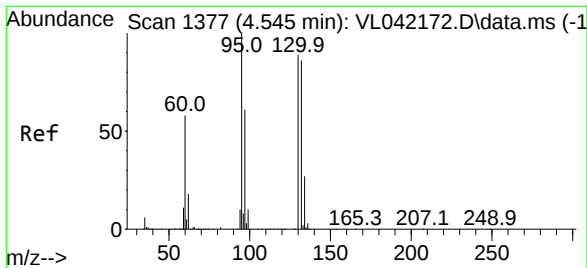
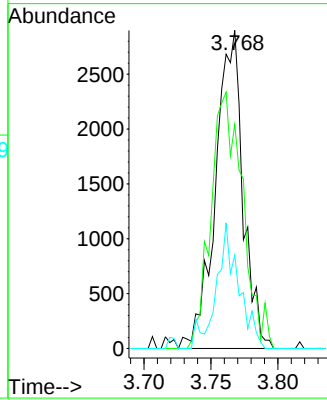
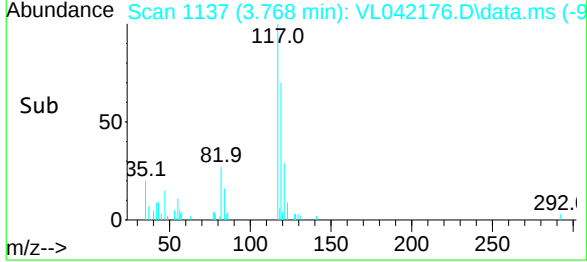
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.1



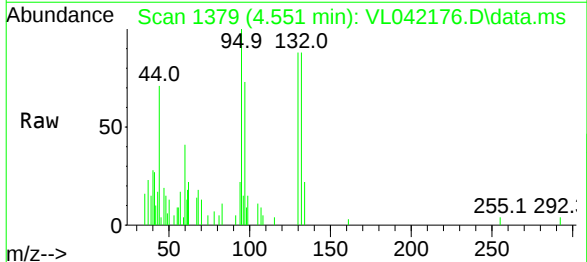
Tgt Ion:117 Resp: 4131  
Ion Ratio Lower Upper  
117 100  
119 70.5 76.2 114.2#  
121 29.4 24.2 36.4

Manual Integrations  
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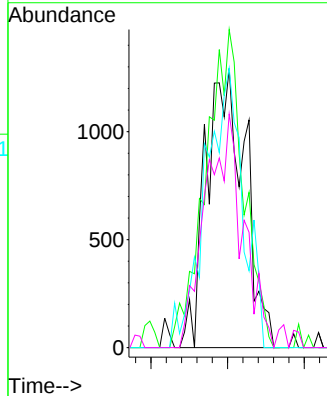
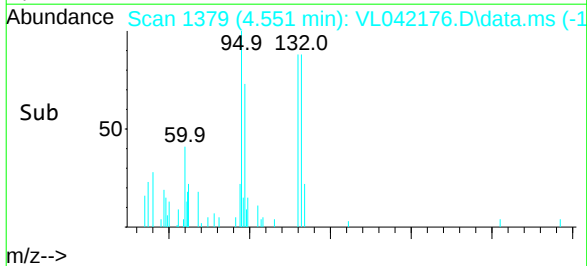
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

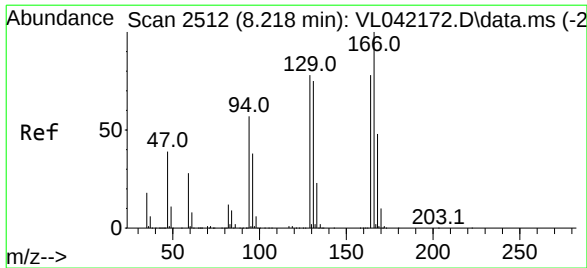


#38  
Trichloroethene  
Concen: 0.106 ppbv m  
RT: 4.551 min Scan# 1379  
Delta R.T. 0.006 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32



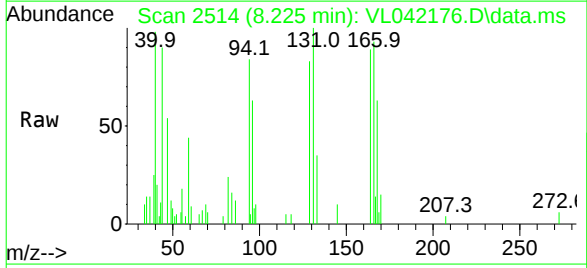
Tgt Ion:130 Resp: 2306  
Ion Ratio Lower Upper  
130 100  
95 114.0 89.8 134.8  
132 100.2 77.4 116.2  
97 83.7 55.1 82.7#





#52  
Tetrachloroethene  
Concen: 0.091 ppbv m  
RT: 8.225 min Scan# 2512  
Delta R.T. 0.006 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

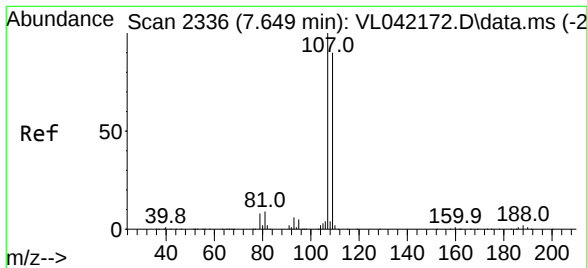
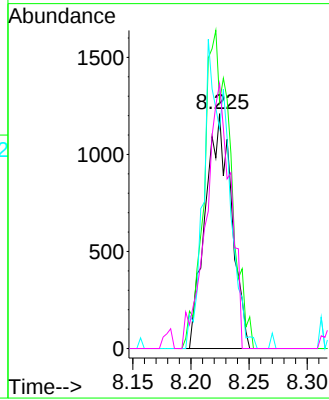
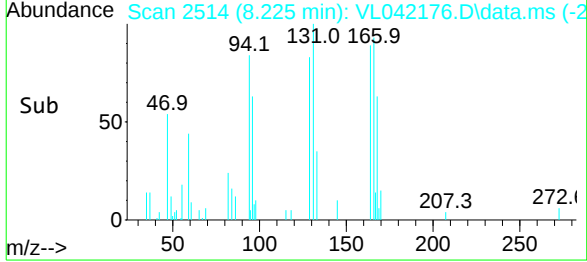
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1



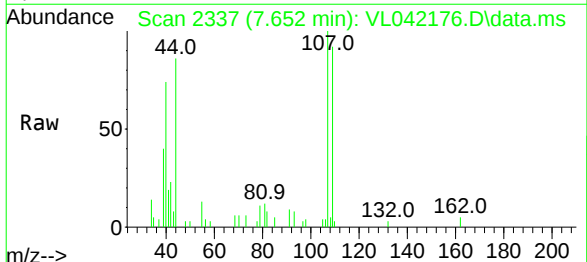
Tgt Ion:164 Resp: 1895  
Ion Ratio Lower Upper  
164 100  
166 105.1 102.5 153.7  
129 93.7 79.8 119.8  
131 112.8 76.6 114.8

Manual Integrations  
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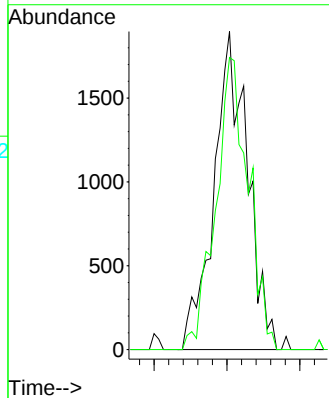
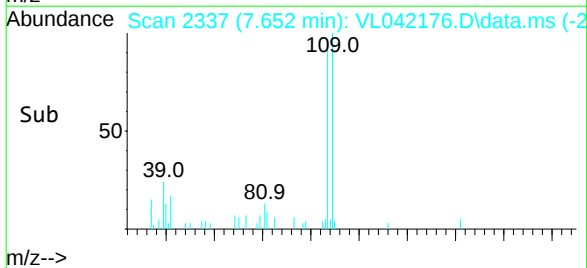
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

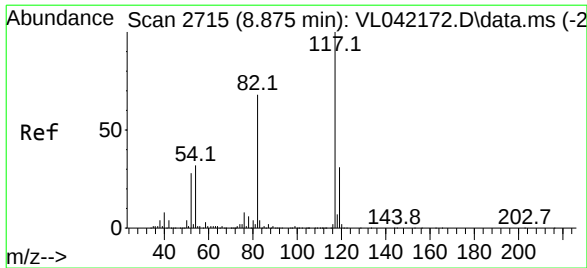


#54  
1,2-Dibromoethane  
Concen: 0.108 ppbv m  
RT: 7.652 min Scan# 2337  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32



Tgt Ion:107 Resp: 3033  
Ion Ratio Lower Upper  
107 100  
109 91.8 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 2715

Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA\_L

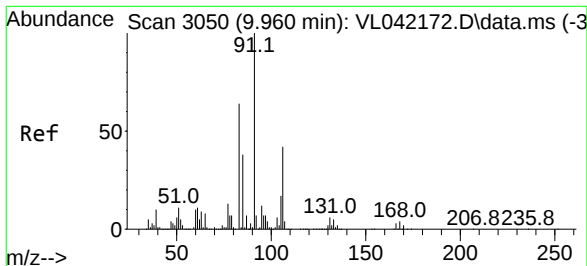
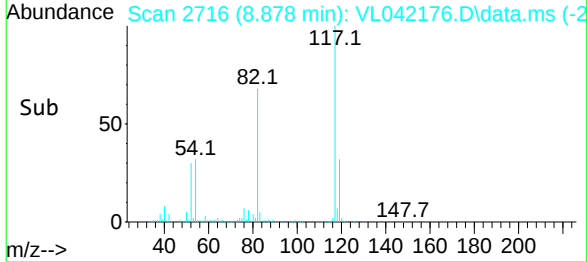
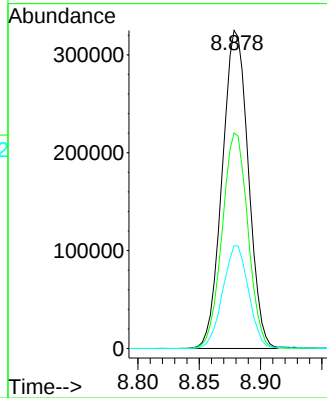
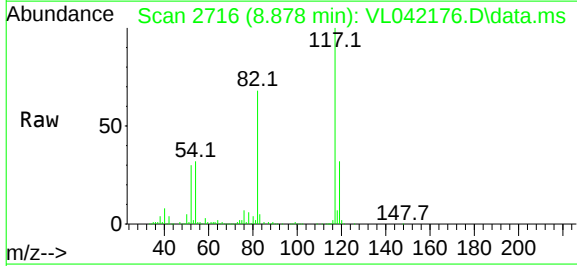
ClientSampleId :

VSTDIC0.1

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 481506 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 66.7  | 55.8  | 83.6   |
| 119      | 32.3  | 25.5  | 38.3   |

Manual Integrations  
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Supervised By :Mahesh Dadoda 04/03/2025



#63

1,1,2,2-Tetrachloroethane

Concen: 0.093 ppbv m

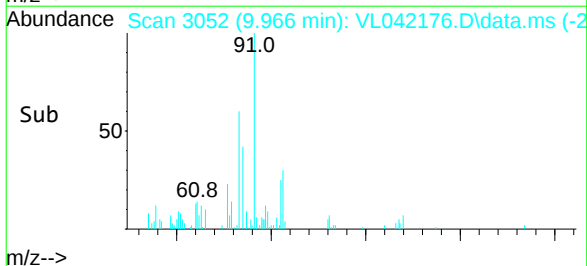
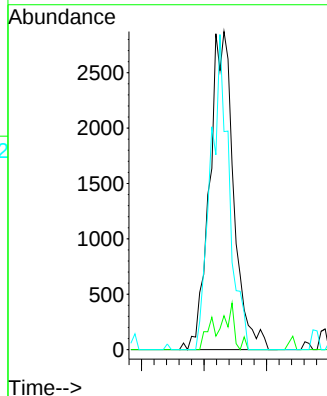
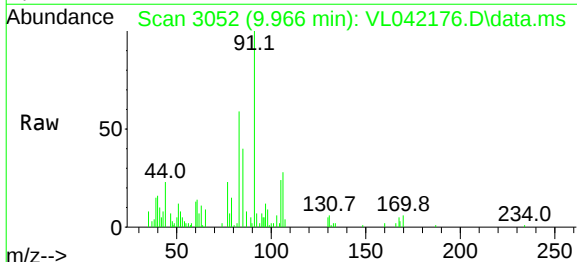
RT: 9.966 min Scan# 3052

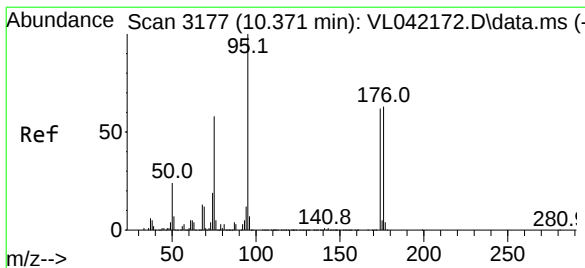
Delta R.T. 0.006 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 3852  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 131      | 0.0   | 4.8   | 14.4# |
| 85       | 0.0   | 32.5  | 97.5# |





#68

1-Bromo-4-Fluorobenzene

Concen: 10.067 ppbv

RT: 10.374 min Scan# 3177

Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA\_L

ClientSampleId :

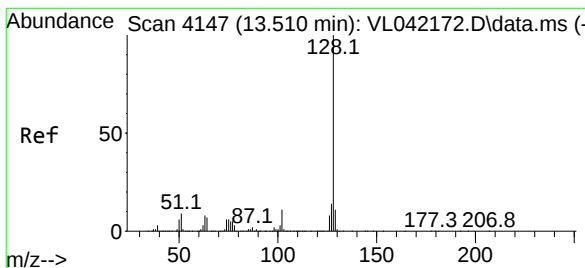
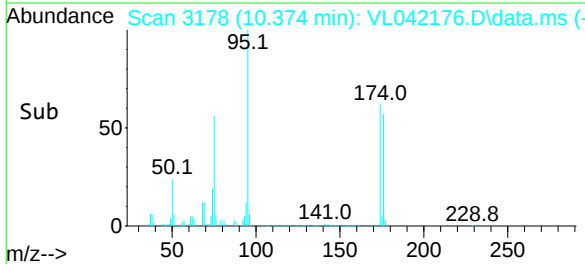
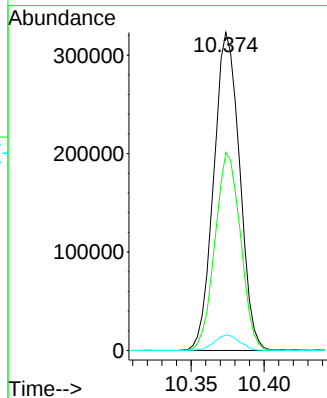
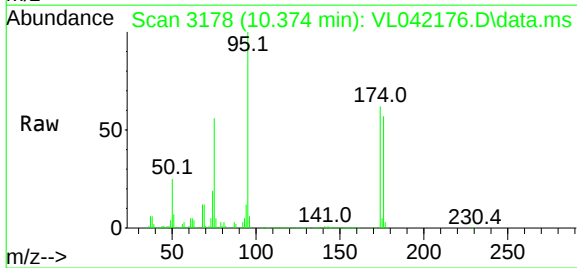
VSTDIC0.1

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 398069 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 61.5  | 50.6  | 76.0   |
| 175      | 4.8   | 3.8   | 5.6    |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#79

Naphthalene

Concen: 0.084 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 7882  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 17.1  | 10.8  | 16.2# |
| 129      | 8.1   | 9.0   | 13.4# |

