

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL021425\  
 Data File : VL042020.D  
 Acq On : 14 Feb 2025 14:58  
 Operator : SY/MD  
 Sample : VSTDICC0.03  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.03

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/17/2025  
 Supervised By :Mahesh Dadoda 02/17/2025

Quant Time: Feb 15 01:23:05 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL021425AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Sat Feb 15 01:17:03 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.777  | 49    | 92385    | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.939  | 114   | 275267   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.865  | 117   | 245994   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.361 | 95    | 198730   | 9.794    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 97.900%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl Chloride             | 1.573  | 62    | 361      | 0.049    | ppbv   | # 56     |
| 32) 1,1,1-Trichloroethane     | 3.353  | 97    | 1064m    | 0.039    | ppbv   |          |
| 35) Carbon Tetrachloride      | 3.745  | 117   | 1150m    | 0.044    | ppbv   |          |
| 38) Trichloroethene           | 4.525  | 130   | 472m     | 0.034    | ppbv   |          |
| 52) Tetrachloroethene         | 8.202  | 164   | 392m     | 0.034    | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 9.950  | 83    | 1042m    | 0.038    | ppbv   |          |
| -----                         |        |       |          |          |        |          |

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

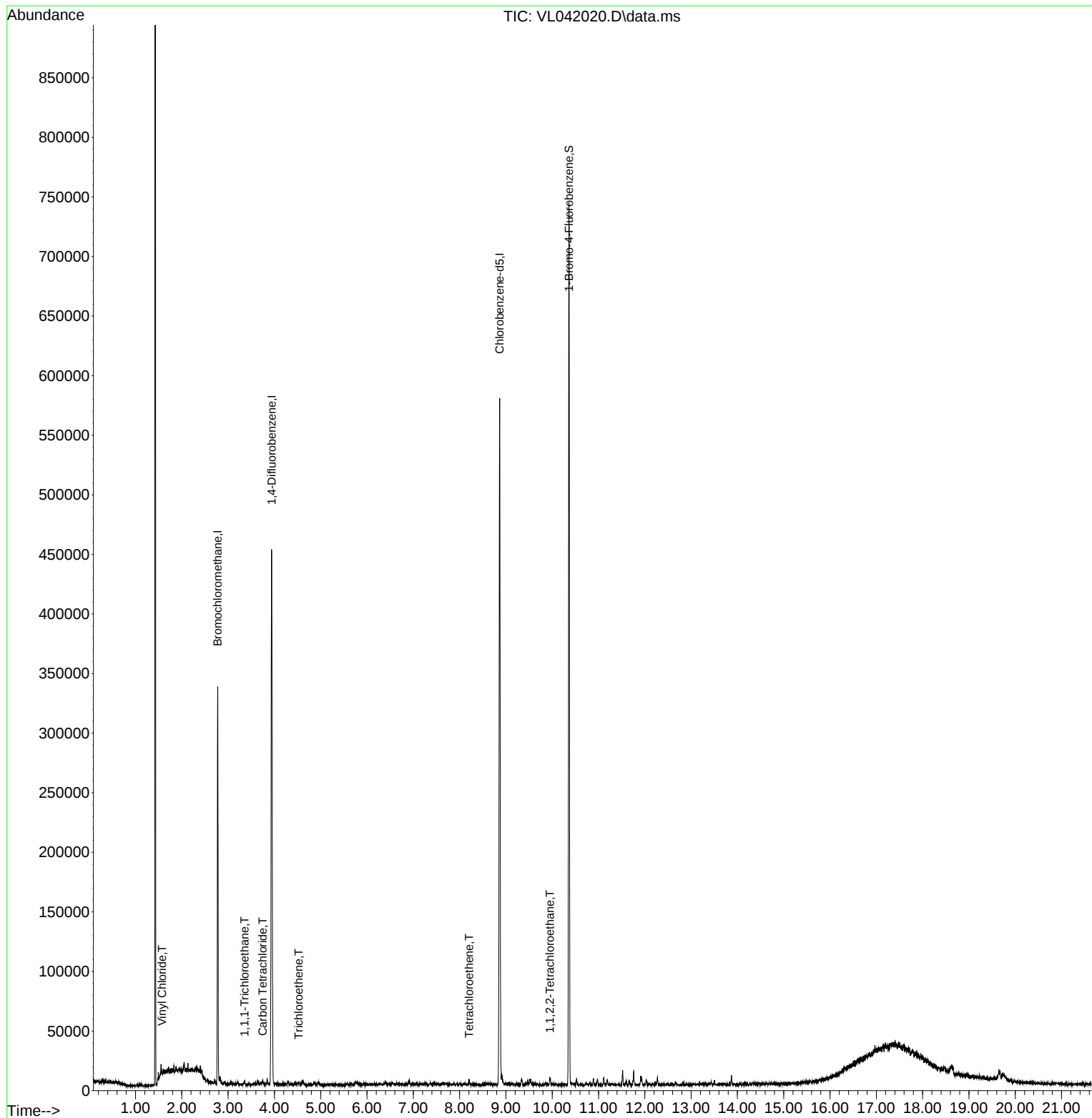
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL021425\  
Data File : VL042020.D  
Acq On : 14 Feb 2025 14:58  
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Sample : VSTDICC0.03  
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ALS Vial : 6 Sample Multiplier: 1

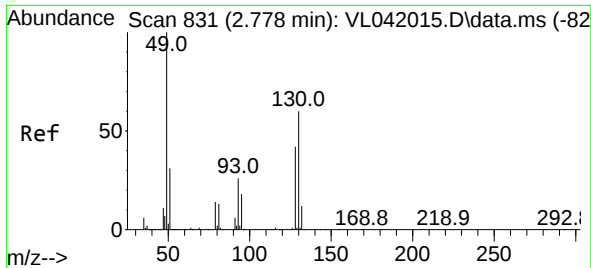
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Quant Time: Feb 15 01:23:05 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL021425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Sat Feb 15 01:17:03 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

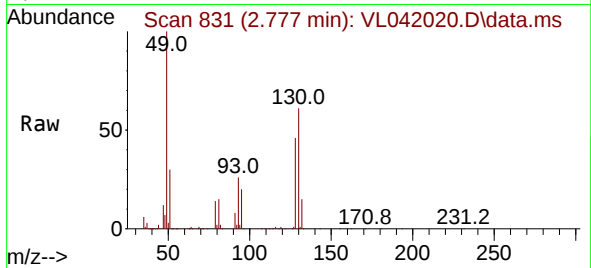
Reviewed By : Semsettin Yesilyurt 02/17/2025  
Supervised By : Mahesh Dadoda 02/17/2025





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.777 min Scan# 81  
Delta R.T. -0.001 min  
Lab File: VL042020.D  
Acq: 14 Feb 2025 14:58

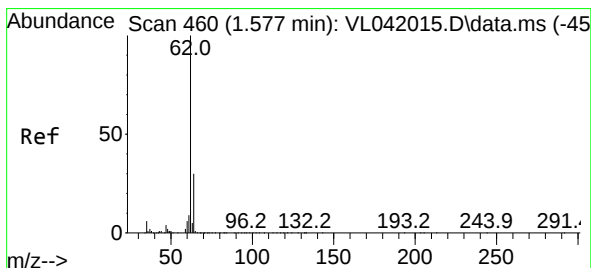
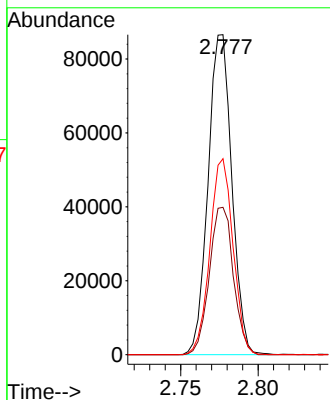
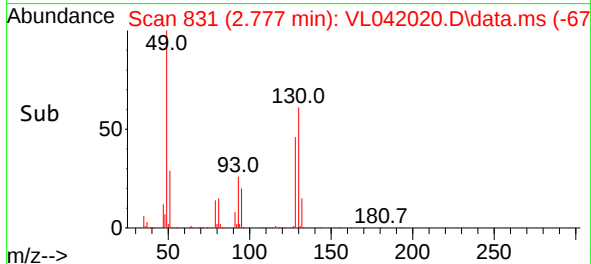
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03



Tgt Ion: 49 Resp: 9238  
Ion Ratio Lower Upper  
49 100  
128 46.7 22.7 68.0  
130 59.8 29.9 89.8

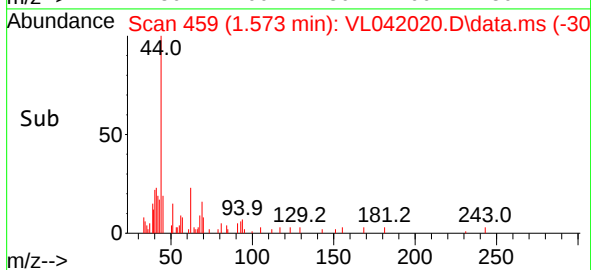
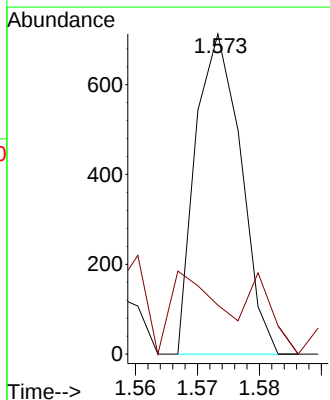
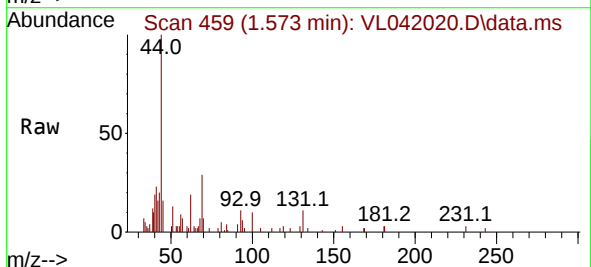
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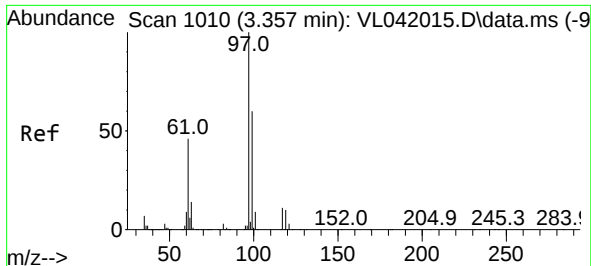
Reviewed By :Semsettin Yesilyurt 02/17/2025  
Supervised By :Mahesh Dadoda 02/17/2025



#5  
Vinyl Chloride  
Concen: 0.049 ppbv  
RT: 1.573 min Scan# 459  
Delta R.T. -0.004 min  
Lab File: VL042020.D  
Acq: 14 Feb 2025 14:58

Tgt Ion: 62 Resp: 361  
Ion Ratio Lower Upper  
62 100  
64 6.5 24.4 36.6#





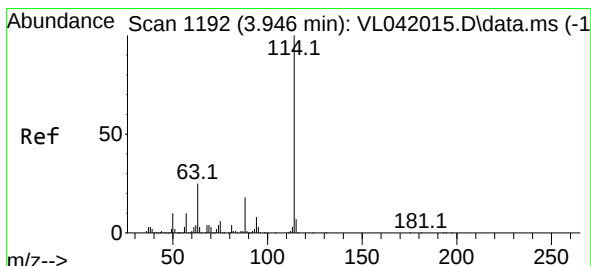
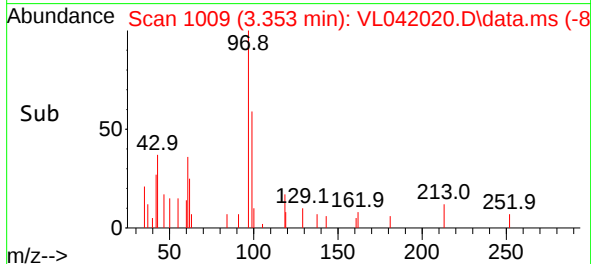
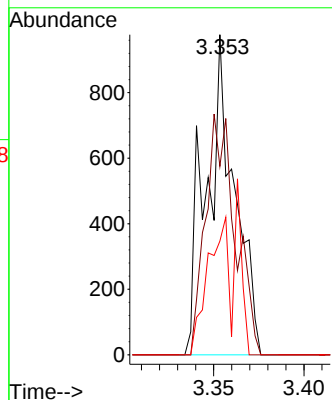
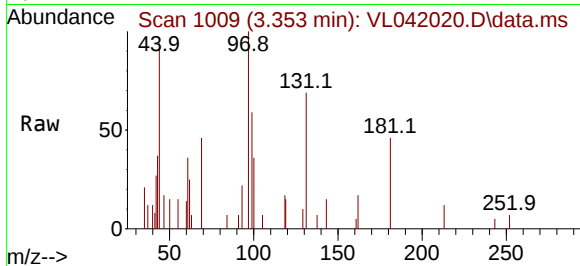
#32  
1,1,1-Trichloroethane  
Concen: 0.039 ppbv m  
RT: 3.353 min Scan# 1064  
Delta R.T. -0.004 min  
Lab File: VL042020.D  
Acq: 14 Feb 2025 14:58

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 106   |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 99 78.9     | 51.0 76.4   |
| 61 44.4     | 37.9 56.9   |

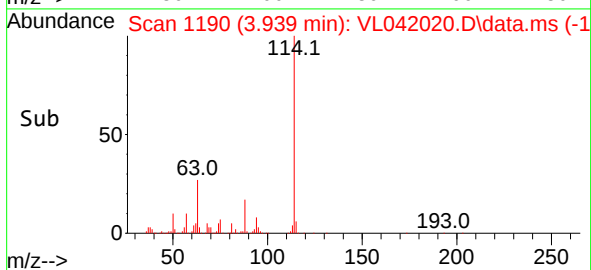
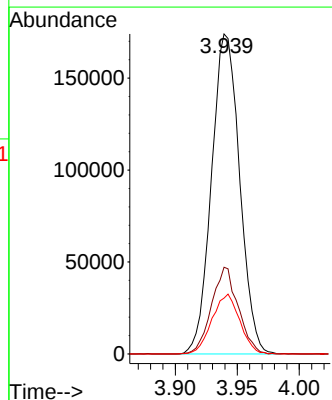
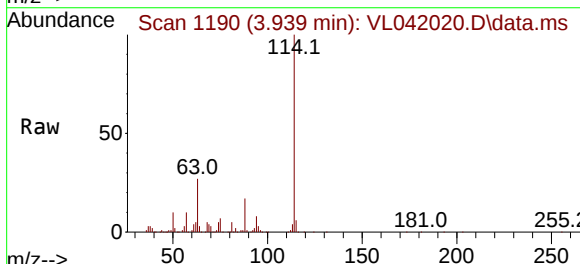
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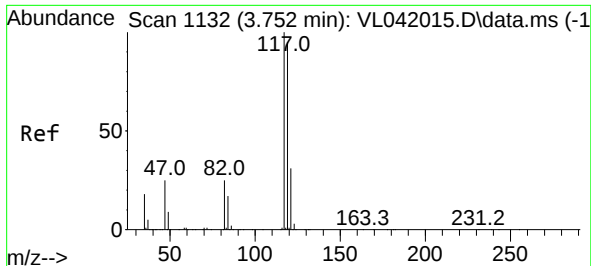
Reviewed By :Semsettin Yesilyurt 02/17/2025  
Supervised By :Mahesh Dadoda 02/17/2025



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.939 min Scan# 1190  
Delta R.T. -0.007 min  
Lab File: VL042020.D  
Acq: 14 Feb 2025 14:58

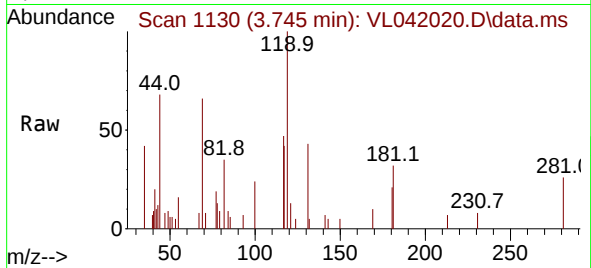
|             |              |
|-------------|--------------|
| Tgt Ion:114 | Resp: 275267 |
| Ion Ratio   | Lower Upper  |
| 114 100     |              |
| 63 25.7     | 20.2 30.2    |
| 88 18.5     | 14.4 21.6    |





#35  
Carbon Tetrachloride  
Concen: 0.044 ppbv m  
RT: 3.745 min Scan# 1130  
Delta R.T. -0.007 min  
Lab File: VL042020.D  
Acq: 14 Feb 2025 14:58

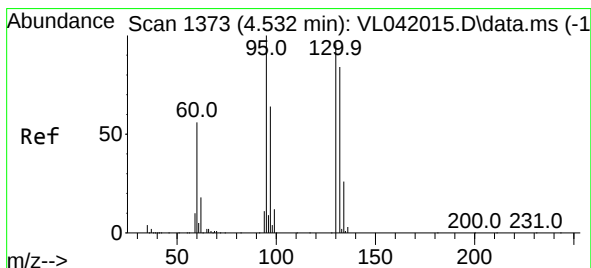
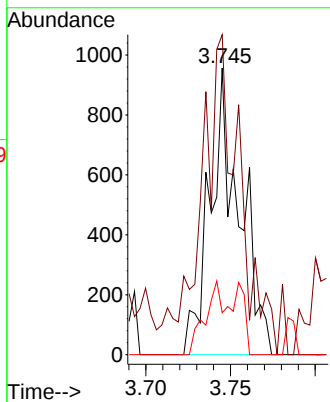
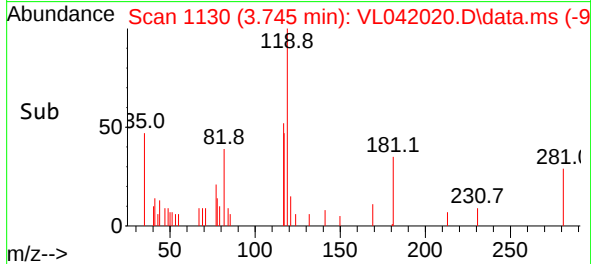
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03



Tgt Ion:117 Resp: 1150  
Ion Ratio Lower Upper  
117 100  
119 211.9 75.8 113.6#  
121 27.8 24.6 36.8

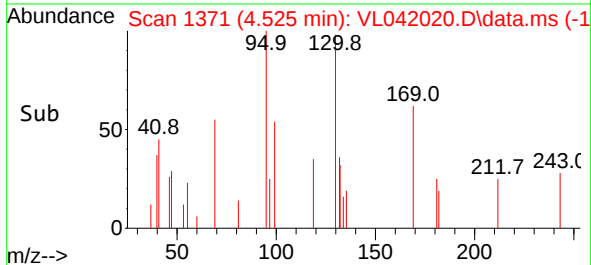
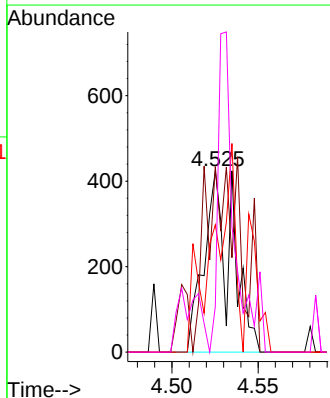
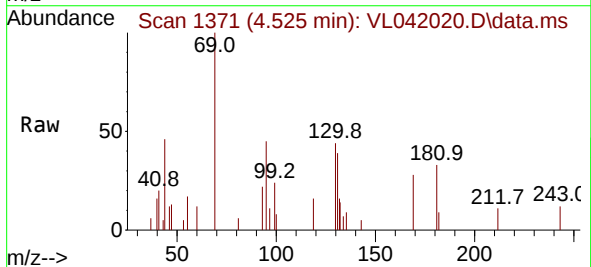
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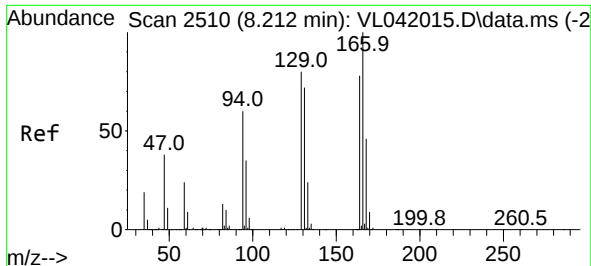
Reviewed By :Semsettin Yesilyurt 02/17/2025  
Supervised By :Mahesh Dadoda 02/17/2025



#38  
Trichloroethene  
Concen: 0.034 ppbv m  
RT: 4.525 min Scan# 1371  
Delta R.T. -0.007 min  
Lab File: VL042020.D  
Acq: 14 Feb 2025 14:58

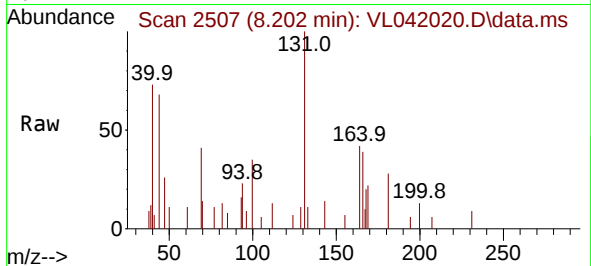
Tgt Ion:130 Resp: 472  
Ion Ratio Lower Upper  
130 100  
95 102.4 82.8 124.2  
132 37.3 70.0 105.0#  
97 25.2 53.3 79.9#





#52  
Tetrachloroethene  
Concen: 0.034 ppbv m  
RT: 8.202 min Scan# 2510  
Delta R.T. -0.010 min  
Lab File: VL042020.D  
Acq: 14 Feb 2025 14:58

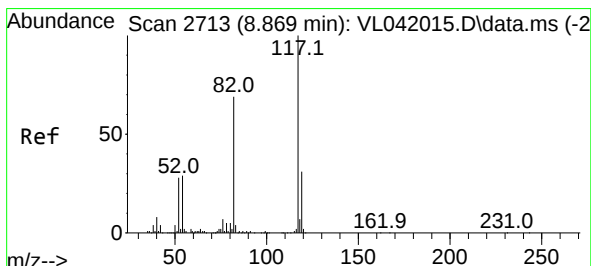
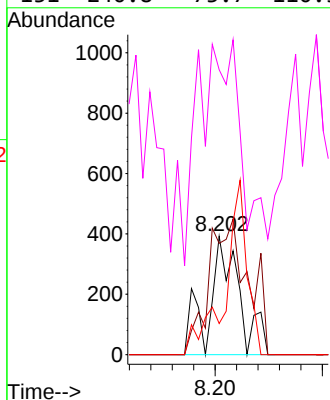
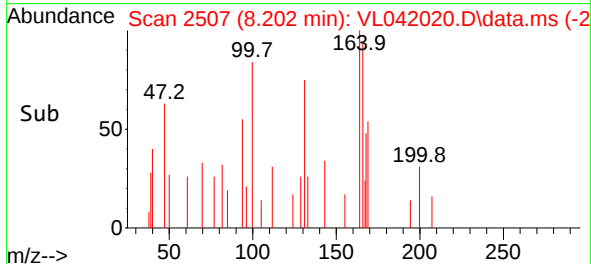
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03



Tgt Ion:164 Resp: 392  
Ion Ratio Lower Upper  
164 100  
166 94.1 102.2 153.2  
129 26.3 82.2 123.4  
131 240.8 73.7 110.5

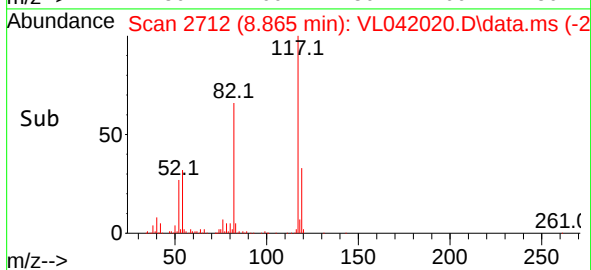
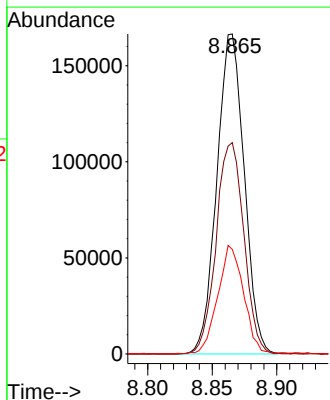
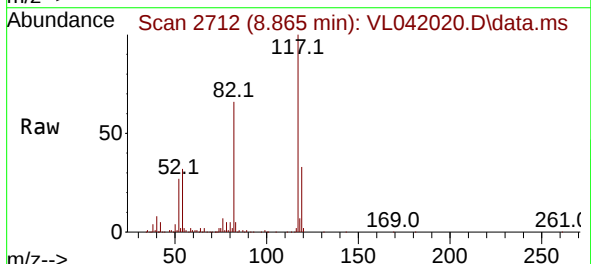
Manual Integrations  
APPROVED

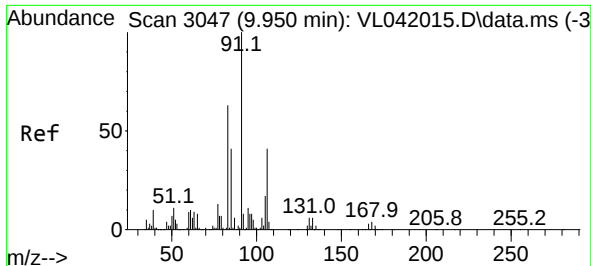
Reviewed By :Semsettin Yesilyurt 02/17/2025  
Supervised By :Mahesh Dadoda 02/17/2025



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.865 min Scan# 2712  
Delta R.T. -0.004 min  
Lab File: VL042020.D  
Acq: 14 Feb 2025 14:58

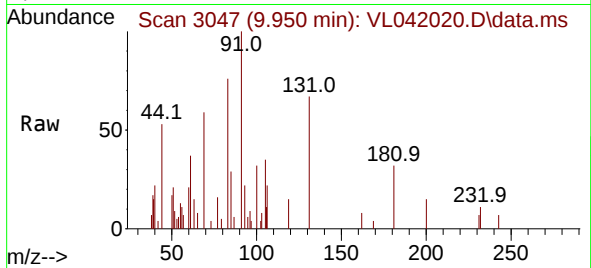
Tgt Ion:117 Resp: 245994  
Ion Ratio Lower Upper  
117 100  
82 66.7 55.7 83.5  
119 32.4 25.2 37.8





#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.038 ppbv m  
RT: 9.950 min Scan# 3047  
Delta R.T. -0.000 min  
Lab File: VL042020.D  
Acq: 14 Feb 2025 14:58

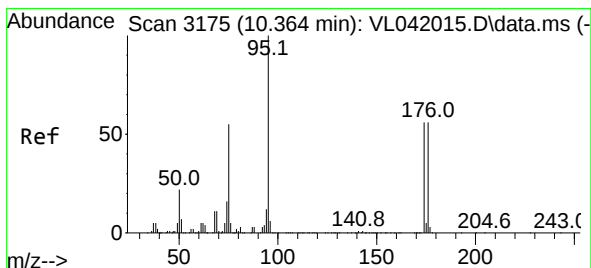
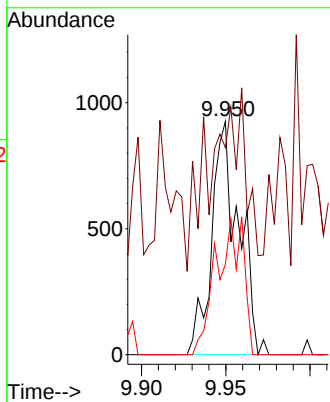
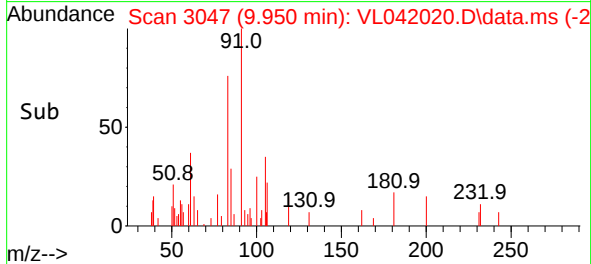
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03



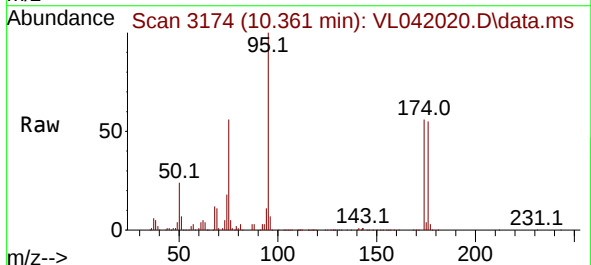
Tgt Ion: 83 Resp: 1042  
Ion Ratio Lower Upper  
83 100  
131 0.0 5.0 15.0  
85 0.0 32.1 96.3

Manual Integrations  
APPROVED

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Supervised By :Mahesh Dadoda 02/17/2025



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.794 ppbv  
RT: 10.361 min Scan# 3174  
Delta R.T. -0.004 min  
Lab File: VL042020.D  
Acq: 14 Feb 2025 14:58



Tgt Ion: 95 Resp: 198730  
Ion Ratio Lower Upper  
95 100  
174 58.4 46.7 70.1  
175 4.5 3.7 5.5

