

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL062624\  
 Data File : VL041356.D  
 Acq On : 26 Jun 2024 11:33  
 Operator : SY/MD  
 Sample : VSTDICC0.1  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.1

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 06/27/2024  
 Supervised By : Mahesh Dadoda 06/27/2024

Quant Time: Jun 26 12:36:27 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL062624AIR.M

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

QLast Update : Wed Jun 26 10:54:23 2024

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards            |        |       |          |          |       |          |
| 1) Bromochloromethane         | 5.202  | 49    | 1065536  | 10.000   | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene       | 6.664  | 114   | 2923311  | 10.000   | ppbv  | 0.00     |
| 55) Chlorobenzene-d5          | 11.481 | 117   | 2596031  | 10.000   | ppbv  | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 68) 1-Bromo-4-Fluorobenzene   | 13.793 | 95    | 2010876  | 10.032   | ppbv  | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =     | 100.300% |
| Target Compounds              |        |       |          |          |       |          |
| 5) Vinyl Chloride             | 2.925  | 62    | 7437m    | 0.116    | ppbv  | Qvalue   |
| 32) 1,1,1-Trichloroethane     | 6.012  | 97    | 17924m   | 0.114    | ppbv  |          |
| 35) Carbon Tetrachloride      | 6.507  | 117   | 18024m   | 0.108    | ppbv  |          |
| 38) Trichloroethene           | 7.308  | 130   | 10421m   | 0.113    | ppbv  |          |
| 52) Tetrachloroethene         | 10.626 | 164   | 8600m    | 0.104    | ppbv  |          |
| 54) 1,2-Dibromoethane         | 10.031 | 107   | 11596m   | 0.094    | ppbv  |          |
| 63) 1,1,2,2-Tetrachloroethane | 13.069 | 83    | 21251m   | 0.110    | ppbv  |          |
| 79) Naphthalene               | 21.420 | 128   | 11270m   | 0.042    | ppbv  |          |

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

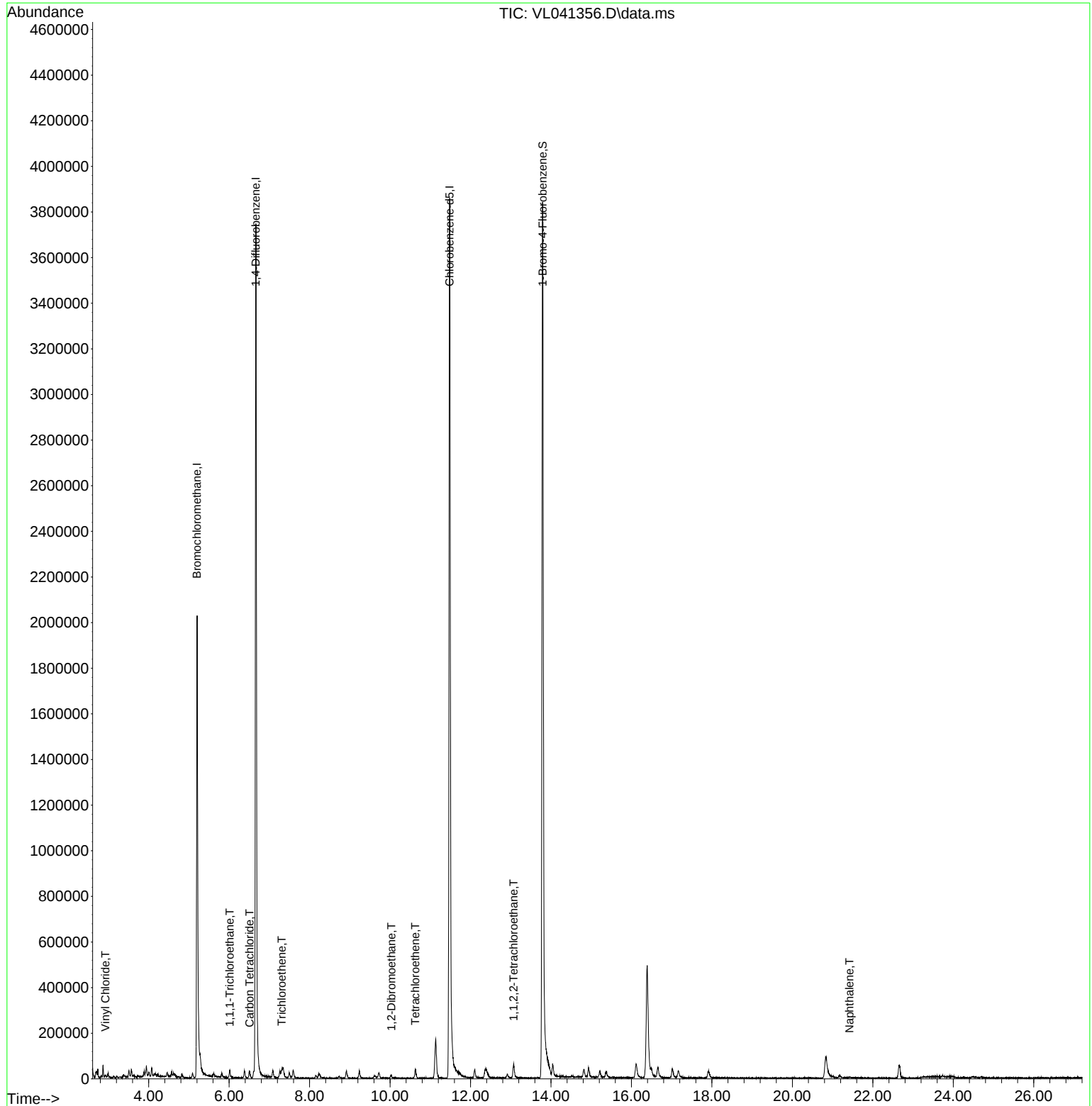
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL062624\  
Data File : VL041356.D  
Acq On : 26 Jun 2024 11:33  
Operator : SY/MD  
Sample : VSTDICC0.1  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

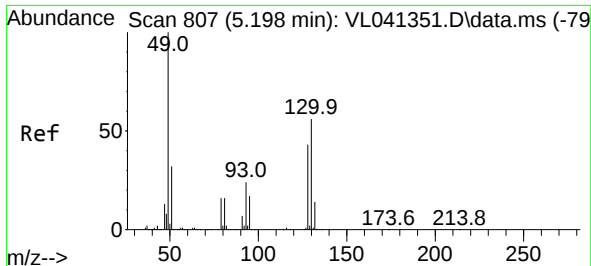
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.1

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024

Quant Time: Jun 26 12:36:27 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL062624AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Wed Jun 26 10:54:23 2024  
Response via : Initial Calibration





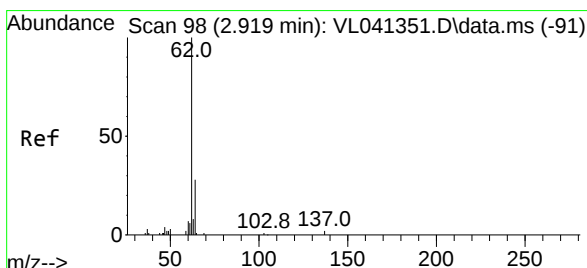
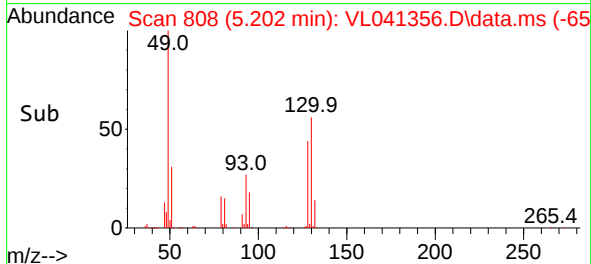
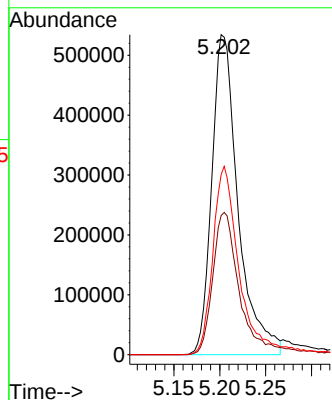
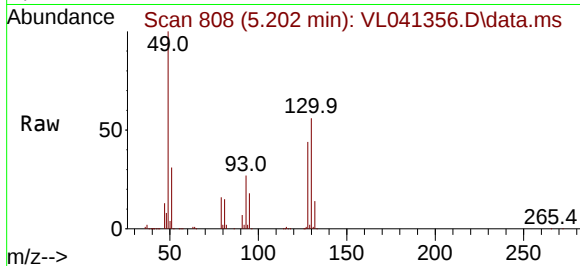
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Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.202 min Scan# 80  
Delta R.T. 0.001 min  
Lab File: VL041356.D  
Acq: 26 Jun 2024 11:33

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1

Tgt Ion: 49 Resp: 1065530  
Ion Ratio Lower Upper  
49 100  
128 46.9 22.8 68.3  
130 61.4 28.9 86.7

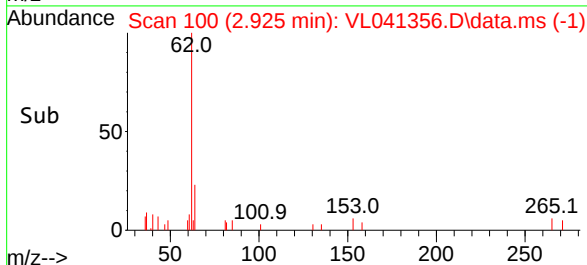
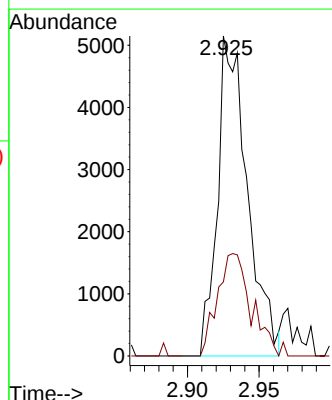
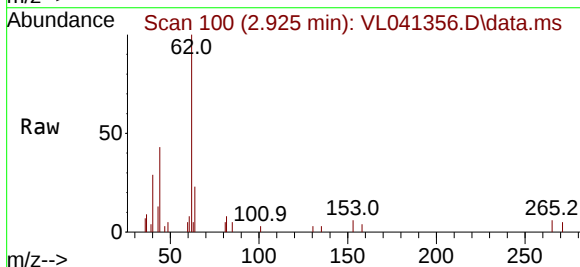
Manual Integrations  
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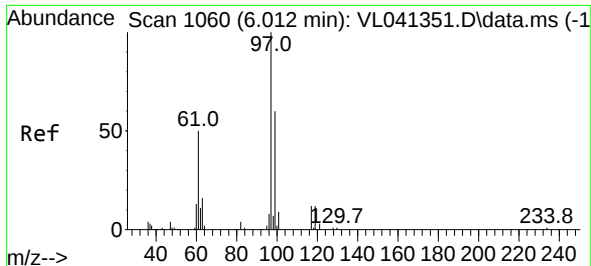
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#5  
Vinyl Chloride  
Concen: 0.116 ppbv m  
RT: 2.925 min Scan# 100  
Delta R.T. 0.003 min  
Lab File: VL041356.D  
Acq: 26 Jun 2024 11:33

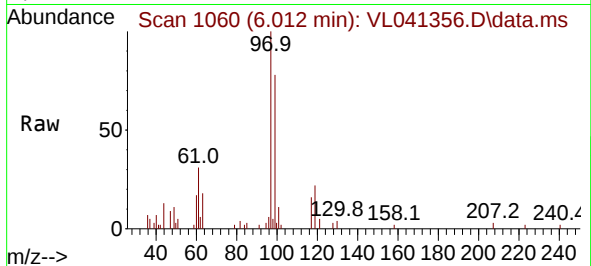
Tgt Ion: 62 Resp: 7437  
Ion Ratio Lower Upper  
62 100  
64 0.0 25.0 37.6#





#32  
1,1,1-Trichloroethane  
Concen: 0.114 ppbv m  
RT: 6.012 min Scan# 1060  
Delta R.T. -0.003 min  
Lab File: VL041356.D  
Acq: 26 Jun 2024 11:33

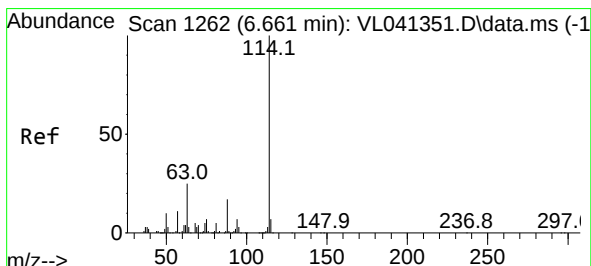
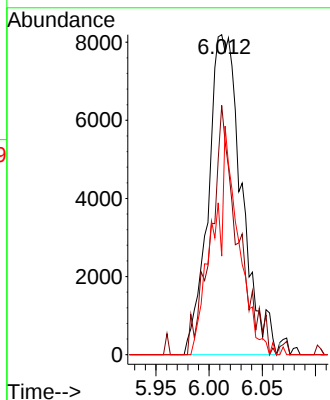
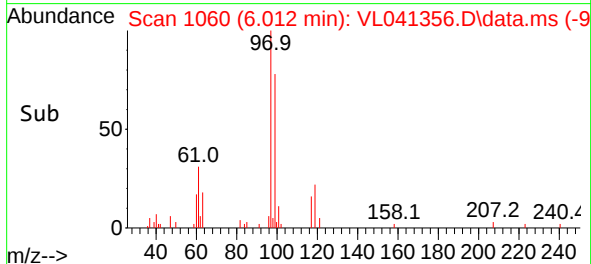
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1



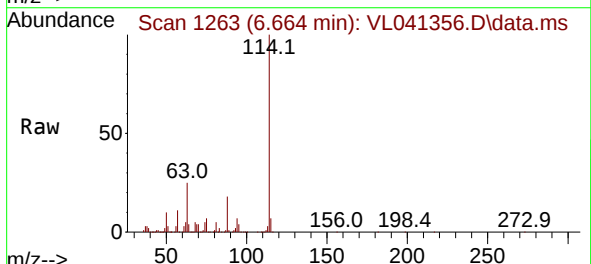
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Ion Ratio Lower Upper  
97 100  
99 0.0 52.0 78.0  
61 53.6 43.0 64.6

Manual Integrations  
APPROVED

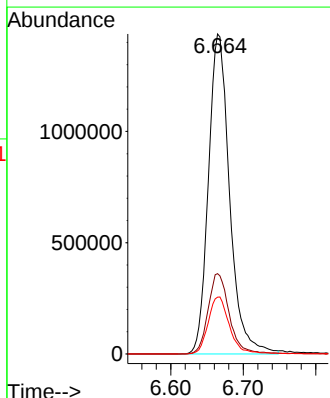
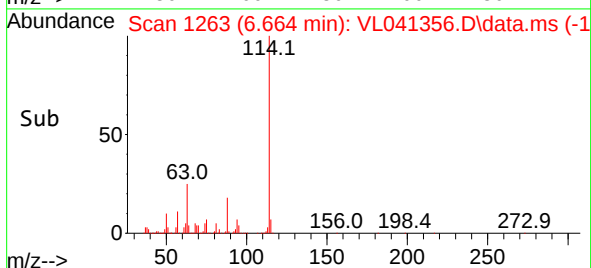
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024

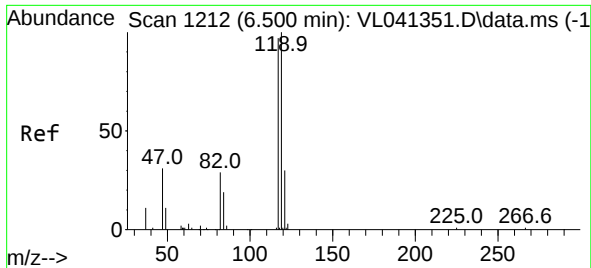


#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.664 min Scan# 1263  
Delta R.T. -0.003 min  
Lab File: VL041356.D  
Acq: 26 Jun 2024 11:33



Tgt Ion:114 Resp: 2923311  
Ion Ratio Lower Upper  
114 100  
63 25.3 20.6 31.0  
88 18.0 14.6 21.8





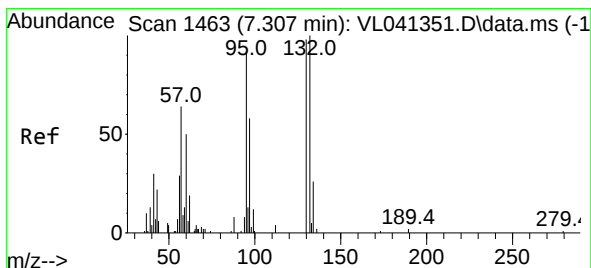
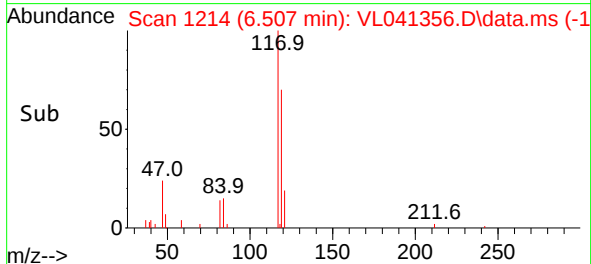
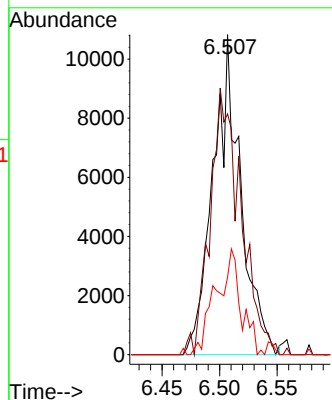
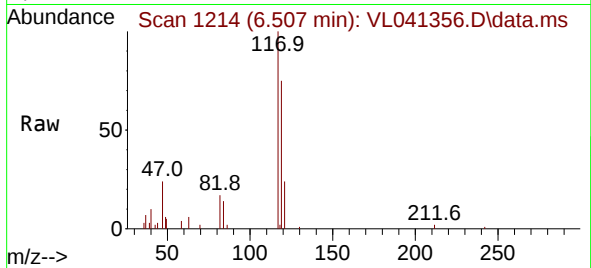
#35  
Carbon Tetrachloride  
Concen: 0.108 ppbv m  
RT: 6.507 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VL041356.D  
Acq: 26 Jun 2024 11:33

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1

Tgt Ion:117 Resp: 18024  
Ion Ratio Lower Upper  
117 100  
119 75.2 77.2 115.8#  
121 24.3 25.2 37.8#

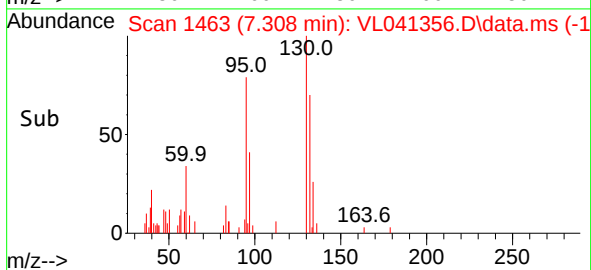
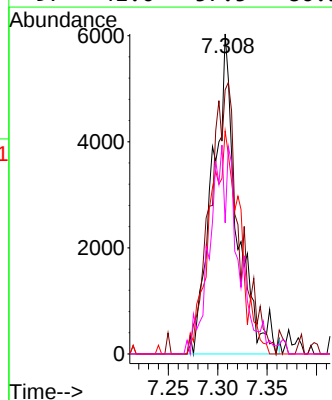
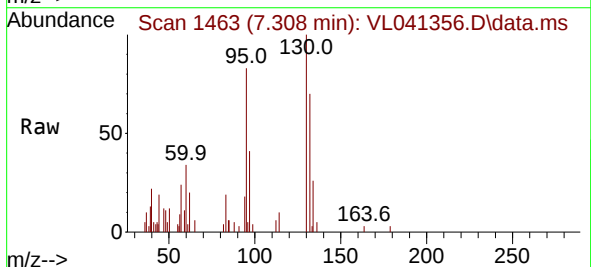
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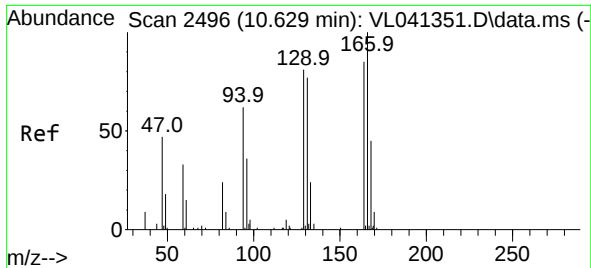
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#38  
Trichloroethene  
Concen: 0.113 ppbv m  
RT: 7.308 min Scan# 1463  
Delta R.T. 0.000 min  
Lab File: VL041356.D  
Acq: 26 Jun 2024 11:33

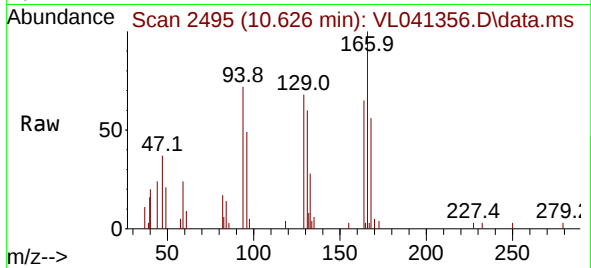
Tgt Ion:130 Resp: 10421  
Ion Ratio Lower Upper  
130 100  
95 82.5 90.0 135.0#  
132 69.7 74.8 112.2#  
97 41.0 57.5 86.3#





#52  
Tetrachloroethene  
Concen: 0.104 ppbv m  
RT: 10.626 min Scan# 2496  
Delta R.T. -0.006 min  
Lab File: VL041356.D  
Acq: 26 Jun 2024 11:33

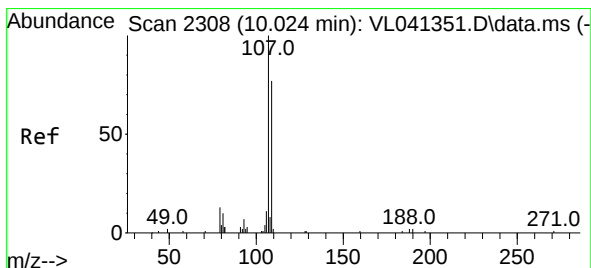
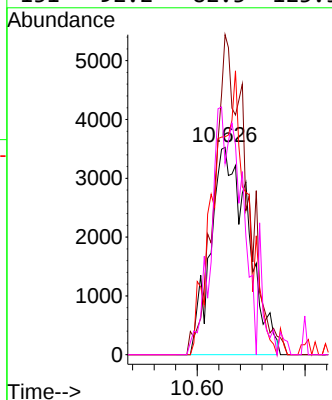
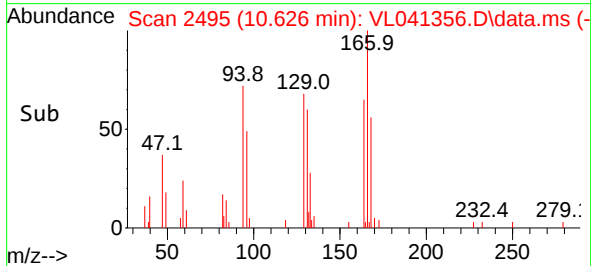
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1



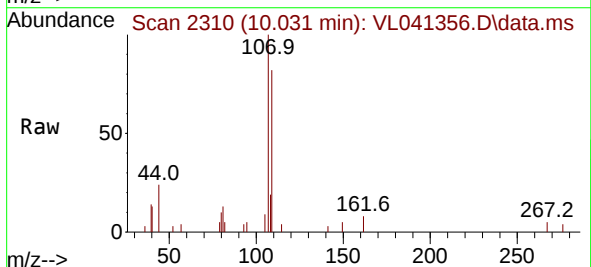
Tgt Ion:164 Resp: 8600  
Ion Ratio Lower Upper  
164 100  
166 154.3 99.8 149.8  
129 105.1 83.8 125.6  
131 92.2 82.3 123.5

Manual Integrations  
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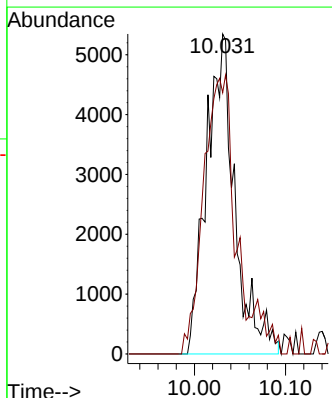
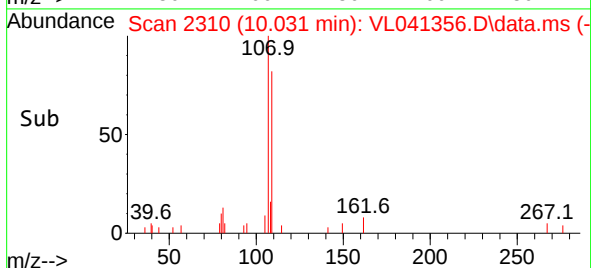
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024

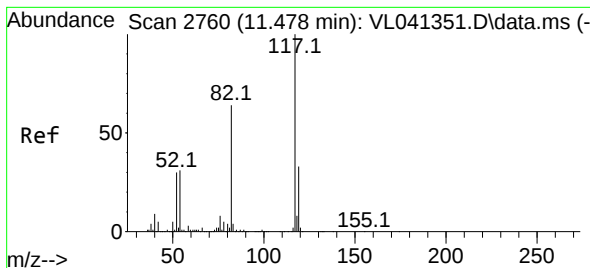


#54  
1,2-Dibromoethane  
Concen: 0.094 ppbv m  
RT: 10.031 min Scan# 2310  
Delta R.T. 0.003 min  
Lab File: VL041356.D  
Acq: 26 Jun 2024 11:33



Tgt Ion:107 Resp: 11596  
Ion Ratio Lower Upper  
107 100  
109 81.7 75.8 113.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.481 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL041356.D

Acq: 26 Jun 2024 11:33

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC0.1

Tgt Ion:117 Resp: 259603

Ion Ratio Lower Upper

117 100

82 65.8 50.6 75.8

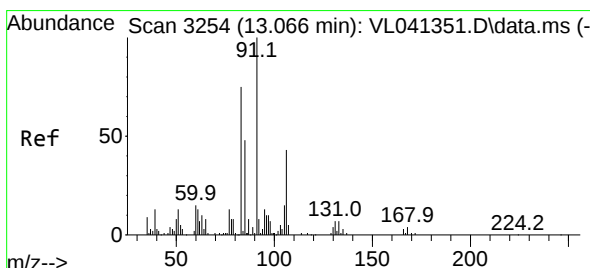
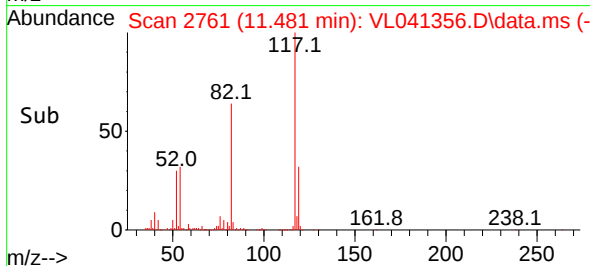
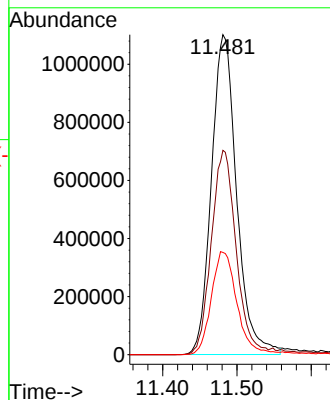
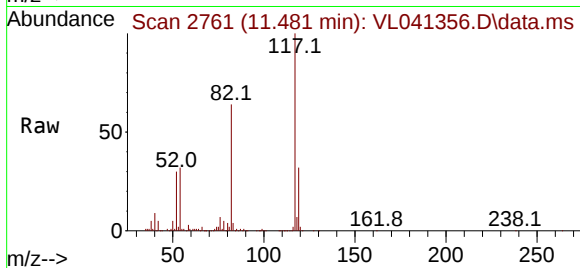
119 33.9 24.7 37.1

Manual Integrations

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#63

1,1,2,2-Tetrachloroethane

Concen: 0.110 ppbv m

RT: 13.069 min Scan# 3255

Delta R.T. 0.003 min

Lab File: VL041356.D

Acq: 26 Jun 2024 11:33

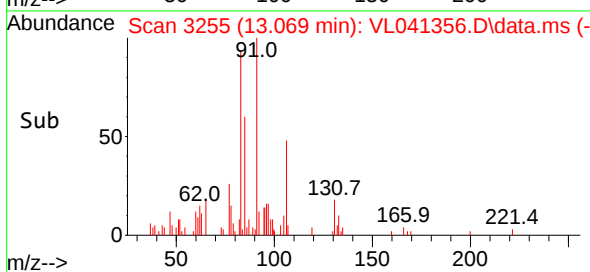
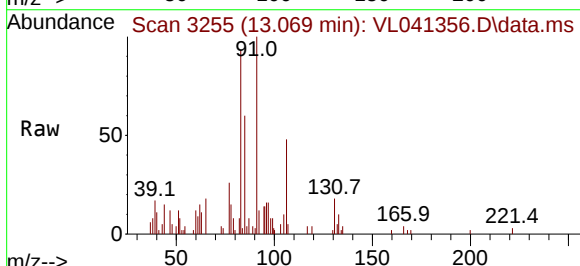
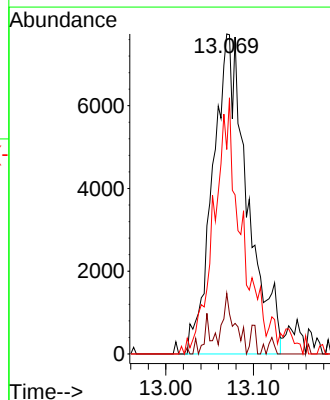
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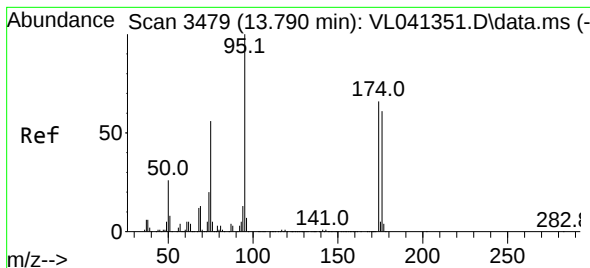
Ion Ratio Lower Upper

83 100

131 9.4 4.8 14.4

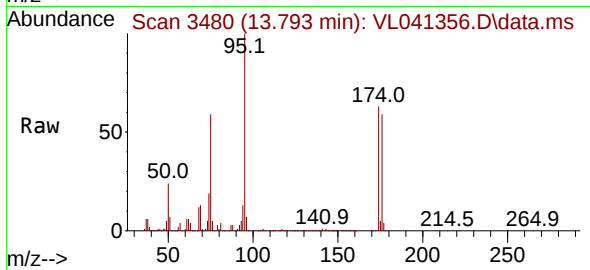
85 68.9 33.0 98.9





#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.032 ppbv  
RT: 13.793 min Scan# 3479  
Delta R.T. 0.000 min  
Lab File: VL041356.D  
Acq: 26 Jun 2024 11:33

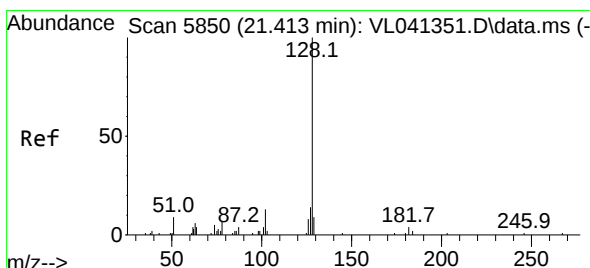
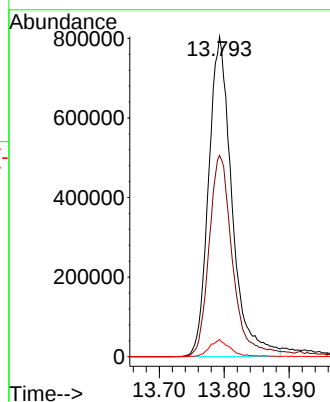
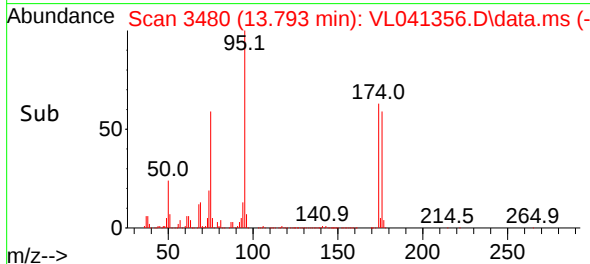
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1



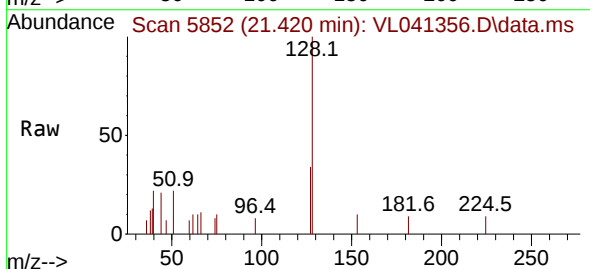
Tgt Ion: 95 Resp: 2010870  
Ion Ratio Lower Upper  
95 100  
174 65.7 53.1 79.7  
175 4.9 4.0 6.0

Manual Integrations  
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Supervised By :Mahesh Dadoda 06/27/2024



#79  
Naphthalene  
Concen: 0.042 ppbv m  
RT: 21.420 min Scan# 5852  
Delta R.T. 0.007 min  
Lab File: VL041356.D  
Acq: 26 Jun 2024 11:33



Tgt Ion:128 Resp: 11270  
Ion Ratio Lower Upper  
128 100  
127 33.9 10.8 16.2#  
129 0.0 9.0 13.4#

