

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL012424\  
 Data File : VL041018.D  
 Acq On : 24 Jan 2024 16:23  
 Operator : SY/MD  
 Sample : P1187-13 LOD 0.03  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOD-MDL-AIR-01-QT1-2024

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 01/25/2024  
 Supervised By :Semsettin Yesilyurt 01/25/2024

Quant Time: Jan 25 06:27:24 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL012324AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Thu Jan 25 03:13:06 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 5.166  | 49    | 980932   | 10.000   | ppbv   | 0.01     |
| 33) 1,4-Difluorobenzene       | 6.623  | 114   | 2419952  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 11.436 | 117   | 2054734  | 10.000   | ppbv   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 13.744 | 95    | 1580176  | 10.182   | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 101.800% |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        |          |
| 5) Vinyl Chloride             | 2.902  | 62    | 2002m    | 0.033    | ppbv   | Qvalue   |
| 6) Bromomethane               | 3.095  | 94    | 746      | 0.028    | ppbv # | 56       |
| 9) Propene                    | 2.668  | 41    | 1266     | 0.023    | ppbv # | 1        |
| 12) 1,1,2-Trichlorotrifluo... | 4.041  | 101   | 3636     | 0.029    | ppbv # | 59       |
| 16) 1,3-Butadiene             | 2.960  | 39    | 1749     | 0.029    | ppbv # | 10       |
| 21) Allyl Chloride            | 3.973  | 41    | 1651     | 0.022    | ppbv # | 1        |
| 22) trans-1,2-Dichloroethene  | 4.423  | 96    | 1195     | 0.021    | ppbv # | 55       |
| 32) 1,1,1-Trichloroethane     | 5.967  | 97    | 6369m    | 0.039    | ppbv   |          |
| 35) Carbon Tetrachloride      | 6.468  | 117   | 5899m    | 0.037    | ppbv   |          |
| 36) Benzene                   | 6.336  | 78    | 5285     | 0.026    | ppbv # | 84       |
| 38) Trichloroethene           | 7.266  | 130   | 3091m    | 0.039    | ppbv   |          |
| 52) Tetrachloroethene         | 10.587 | 164   | 1807m    | 0.027    | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 13.037 | 83    | 6328m    | 0.035    | ppbv   |          |
| -----                         |        |       |          |          |        |          |

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

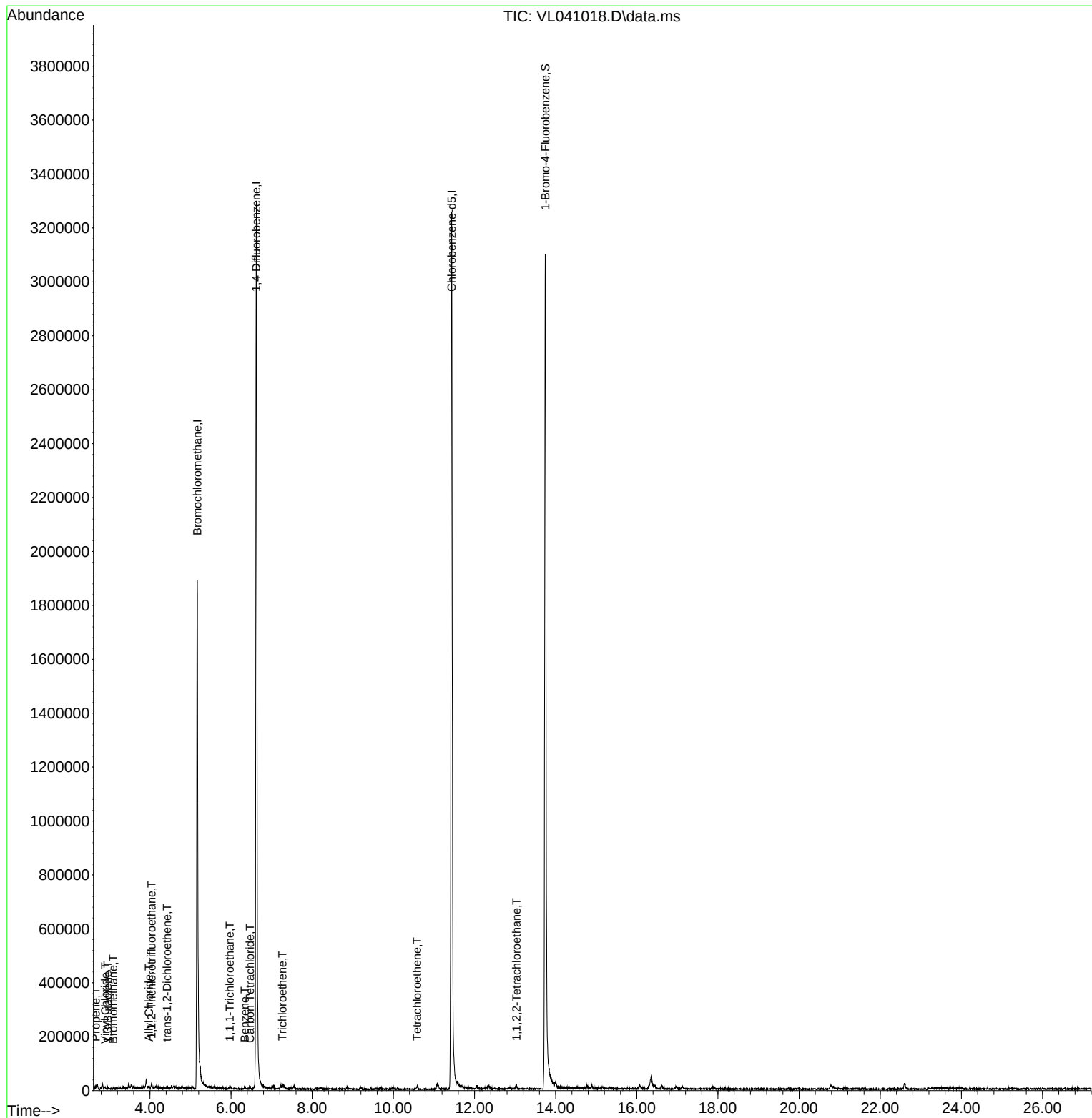
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL012424\  
Data File : VL041018.D  
Acq On : 24 Jan 2024 16:23  
Operator : SY/MD  
Sample : P1187-13 LOD 0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

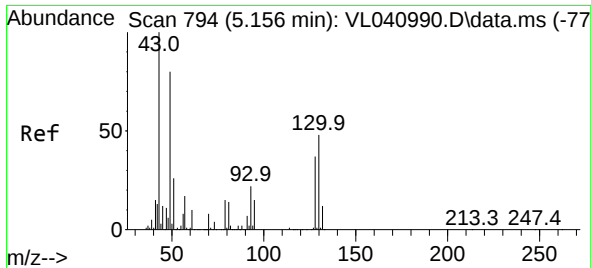
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2024

Quant Time: Jan 25 06:27:24 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL012324AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Thu Jan 25 03:13:06 2024  
Response via : Initial Calibration

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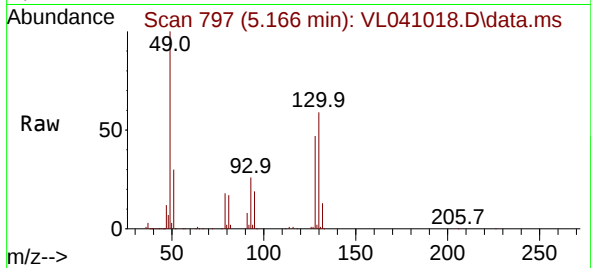
Reviewed By :Mahesh Dadoda 01/25/2024  
Supervised By :Semsettin Yesilyurt 01/25/2024





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.166 min Scan# 794  
Delta R.T. 0.010 min  
Lab File: VL041018.D  
Acq: 24 Jan 2024 16:23

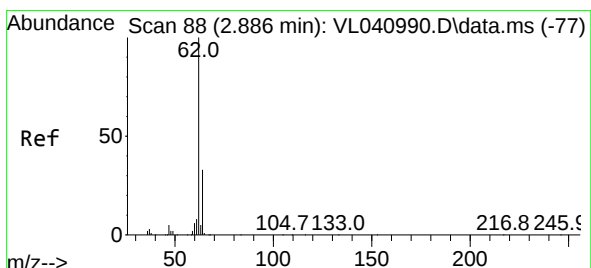
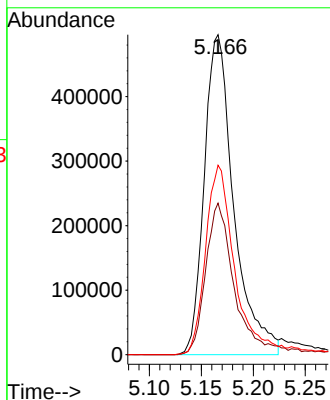
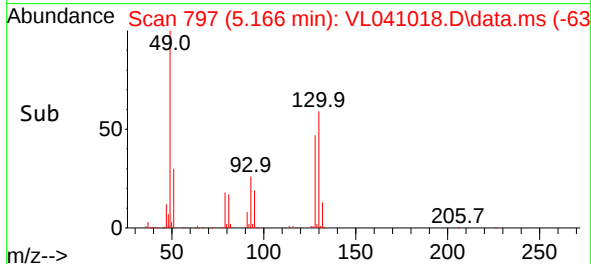
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2024



Tgt Ion: 49 Resp: 98093  
Ion Ratio Lower Upper  
49 100  
128 48.8 23.9 71.7  
130 61.8 31.1 93.5

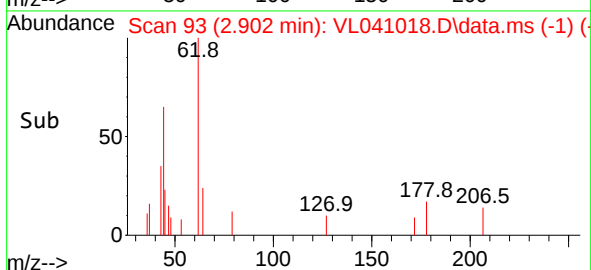
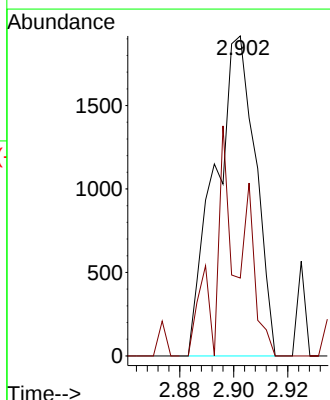
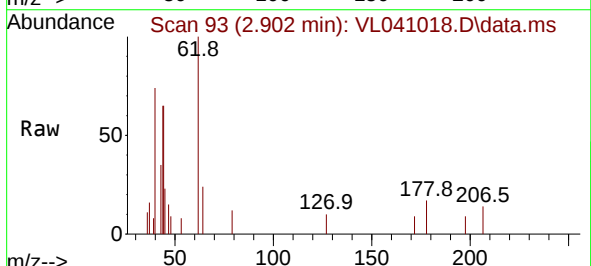
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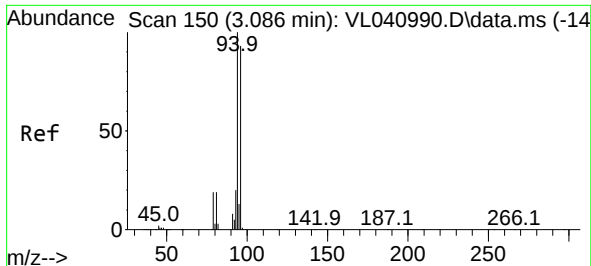
Reviewed By :Mahesh Dadoda 01/25/2024  
Supervised By :Semsettin Yesilyurt 01/25/2024



#5  
Vinyl Chloride  
Concen: 0.033 ppbv m  
RT: 2.902 min Scan# 93  
Delta R.T. 0.013 min  
Lab File: VL041018.D  
Acq: 24 Jan 2024 16:23

Tgt Ion: 62 Resp: 2002  
Ion Ratio Lower Upper  
62 100  
64 24.3 26.6 40.0#





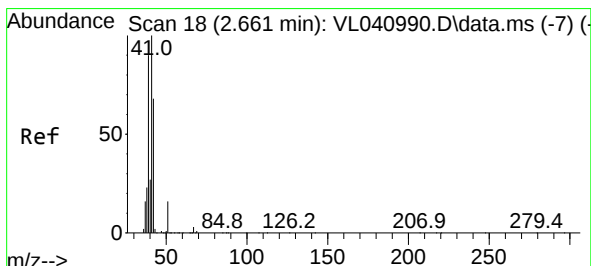
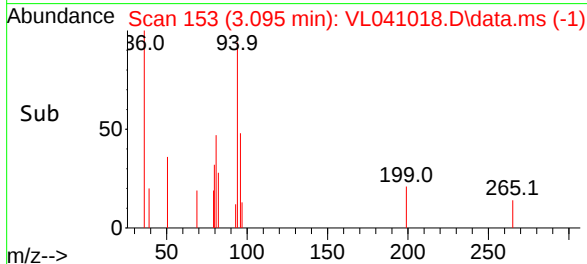
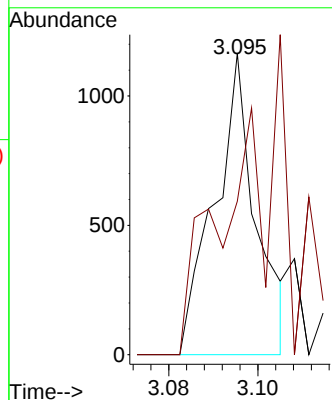
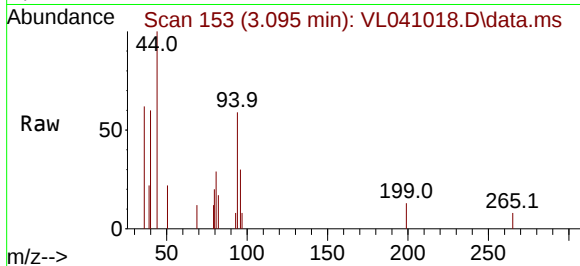
#6  
Bromomethane  
Concen: 0.028 ppbv  
RT: 3.095 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VL041018.D  
Acq: 24 Jan 2024 16:23

Instrument :  
MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2024

Tgt Ion: 94 Resp: 740  
Ion Ratio Lower Upper  
94 100  
96 50.9 74.2 111.4

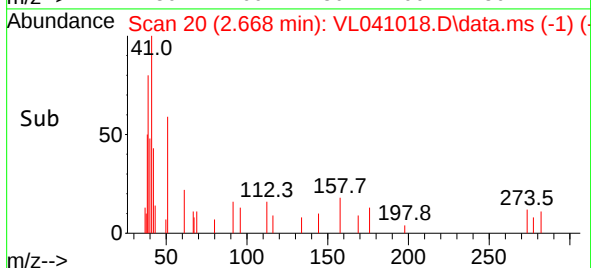
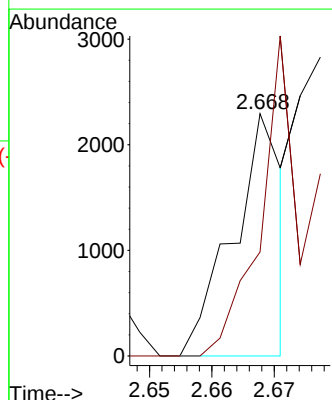
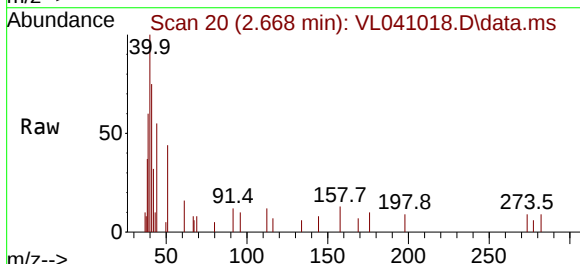
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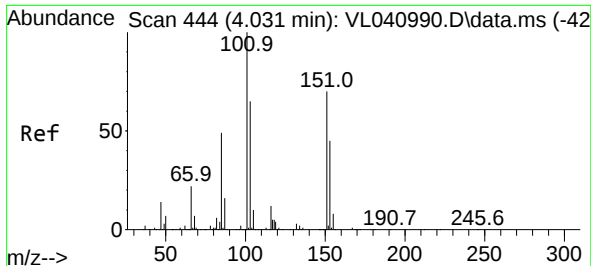
Reviewed By :Mahesh Dadoda 01/25/2024  
Supervised By :Semsettin Yesilyurt 01/25/2024



#9  
Propene  
Concen: 0.023 ppbv  
RT: 2.668 min Scan# 20  
Delta R.T. 0.003 min  
Lab File: VL041018.D  
Acq: 24 Jan 2024 16:23

Tgt Ion: 41 Resp: 1266  
Ion Ratio Lower Upper  
41 100  
42 196.8 59.0 88.4





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.029 ppbv

RT: 4.041 min Scan# 444

Delta R.T. 0.010 min

Lab File: VL041018.D

Acq: 24 Jan 2024 16:23

Instrument :

MSVOA\_L

ClientSampleId :

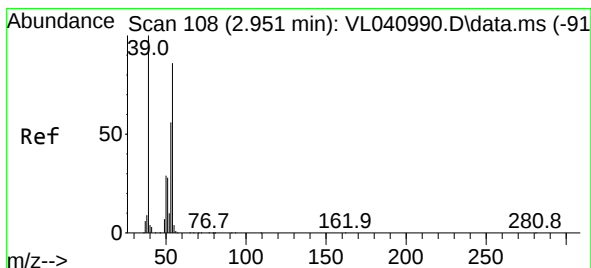
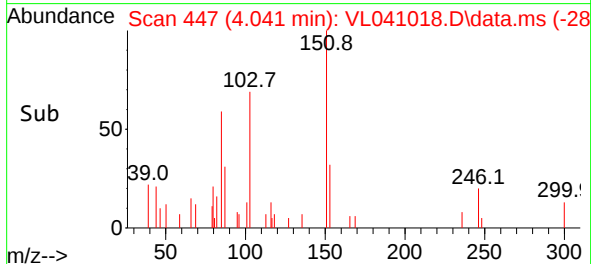
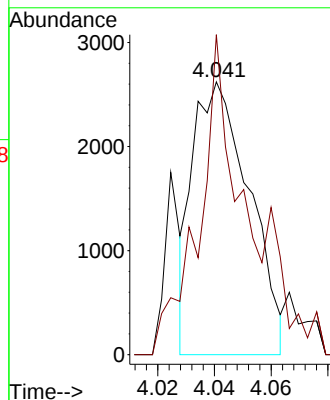
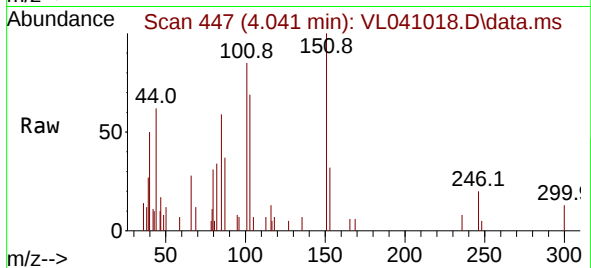
LOD-MDL-AIR-01-QT1-2024

Tgt Ion:101 Resp: 3630  
 Ion Ratio Lower Upper  
 101 100  
 151 104.3 56.6 85.0

Manual Integrations

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Reviewed By :Mahesh Dadoda 01/25/2024  
 Supervised By :Semsettin Yesilyurt 01/25/2024



#16

1,3-Butadiene

Concen: 0.029 ppbv

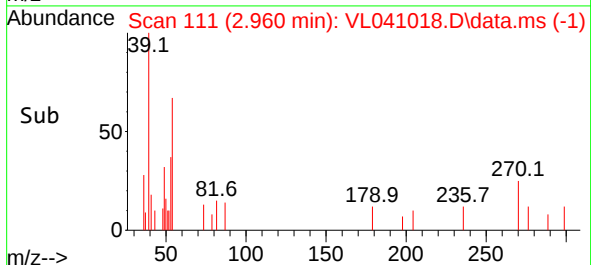
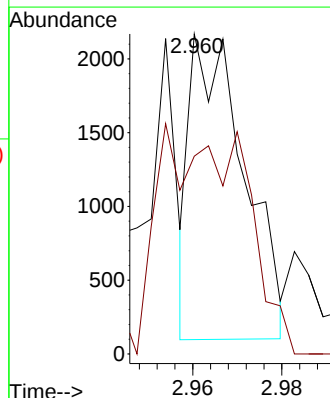
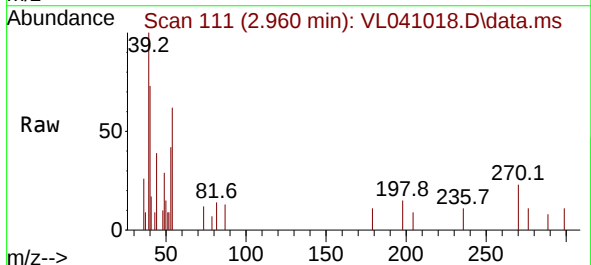
RT: 2.960 min Scan# 111

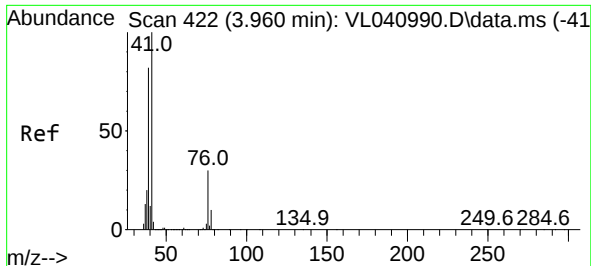
Delta R.T. 0.006 min

Lab File: VL041018.D

Acq: 24 Jan 2024 16:23

Tgt Ion: 39 Resp: 1749  
 Ion Ratio Lower Upper  
 39 100  
 54 0.0 62.7 94.1





#21

Allyl Chloride

Concen: 0.022 ppbv

RT: 3.973 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL041018.D

Acq: 24 Jan 2024 16:23

Instrument :

MSVOA\_L

ClientSampleId :

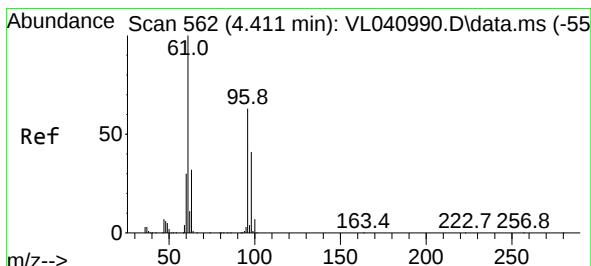
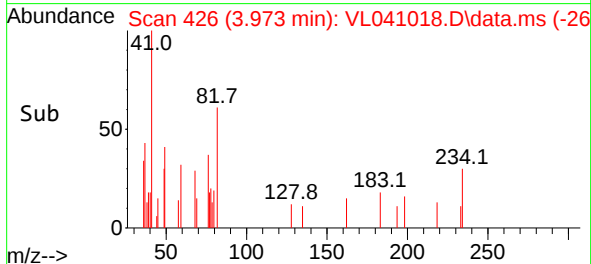
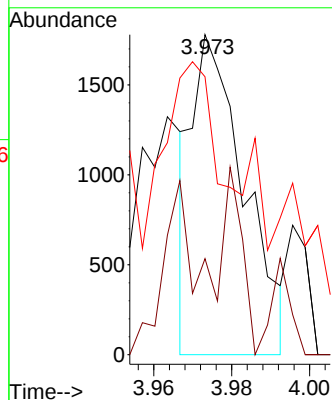
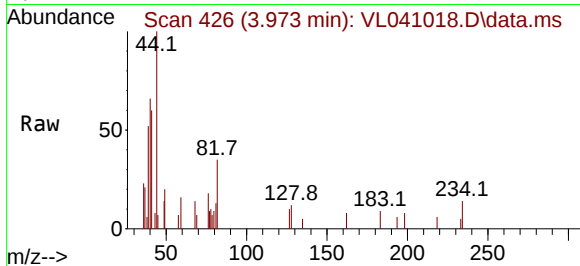
LOD-MDL-AIR-01-QT1-2024

|             |                  |
|-------------|------------------|
| Tgt Ion: 41 | Resp: 165        |
| Ion Ratio   | Lower Upper      |
| 41          | 100              |
| 76          | 69.1 25.0 37.4   |
| 39          | 218.7 67.0 100.6 |

Manual Integrations

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Reviewed By :Mahesh Dadoda 01/25/2024  
Supervised By :Semsettin Yesilyurt 01/25/2024



#22

trans-1,2-Dichloroethene

Concen: 0.021 ppbv

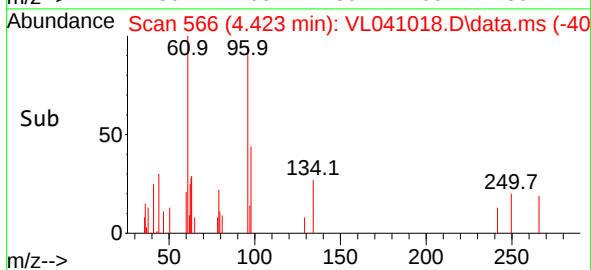
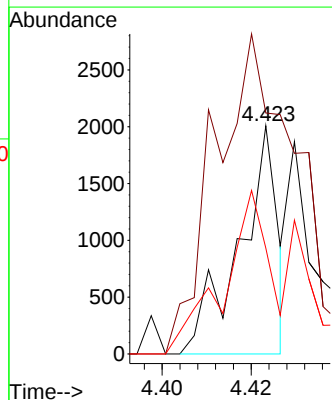
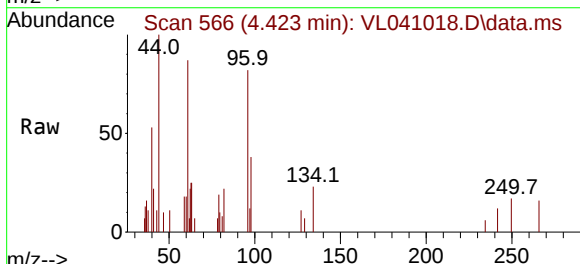
RT: 4.423 min Scan# 566

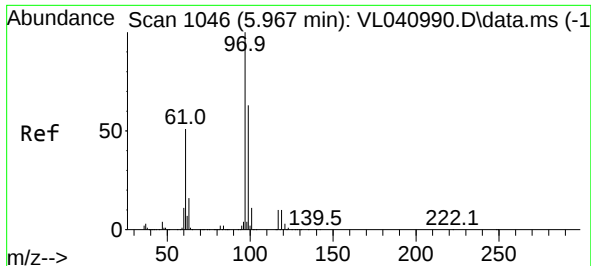
Delta R.T. 0.013 min

Lab File: VL041018.D

Acq: 24 Jan 2024 16:23

|             |                   |
|-------------|-------------------|
| Tgt Ion: 96 | Resp: 1195        |
| Ion Ratio   | Lower Upper       |
| 96          | 100               |
| 61          | 92.7 126.0 189.0# |
| 98          | 36.6 51.2 76.8#   |





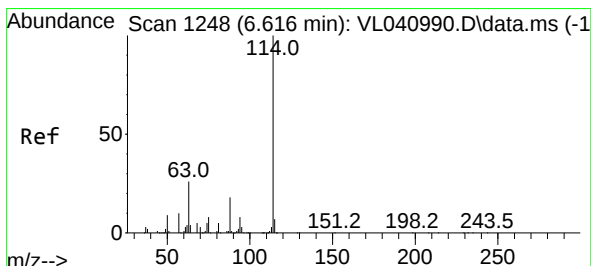
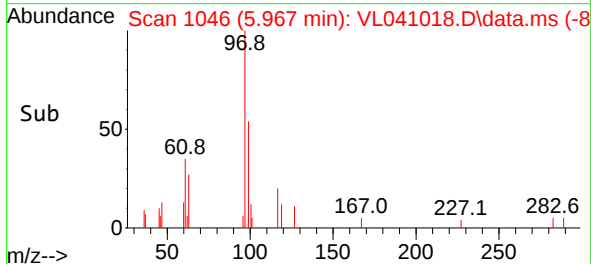
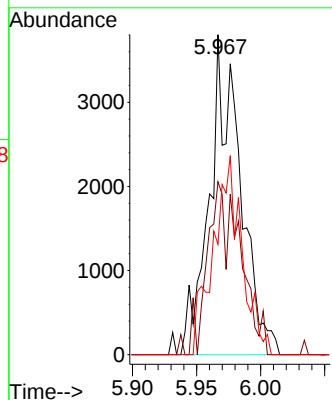
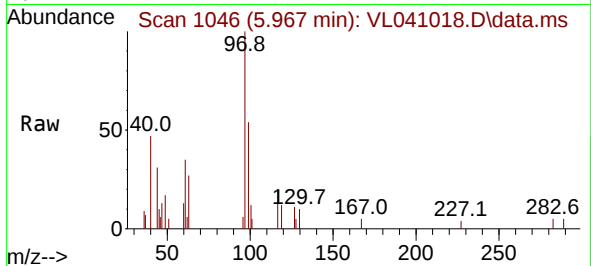
#32  
1,1,1-Trichloroethane  
Concen: 0.039 ppbv m  
RT: 5.967 min Scan# 1046  
Delta R.T. -0.003 min  
Lab File: VL041018.D  
Acq: 24 Jan 2024 16:23

Instrument : MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2024

Tgt Ion: 97 Resp: 6369  
Ion Ratio Lower Upper  
97 100  
99 0.0 51.5 77.3  
61 57.8 40.3 60.5

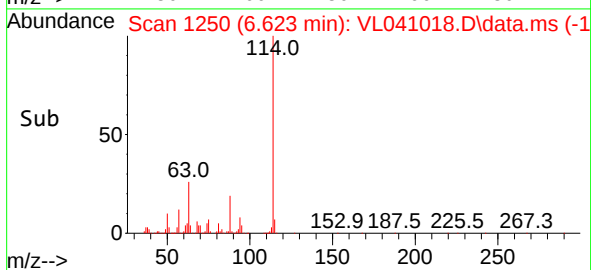
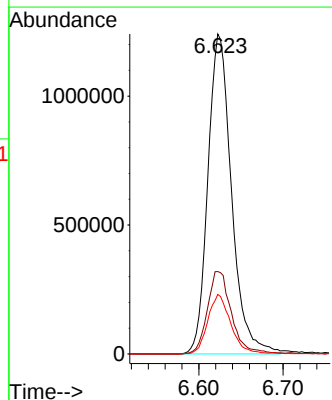
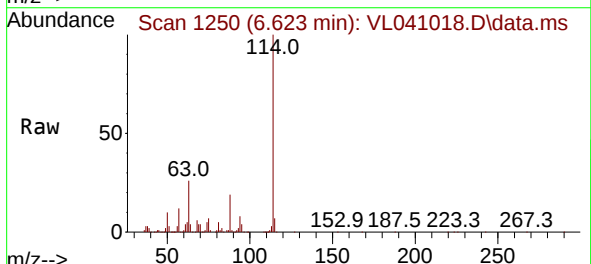
Manual Integrations  
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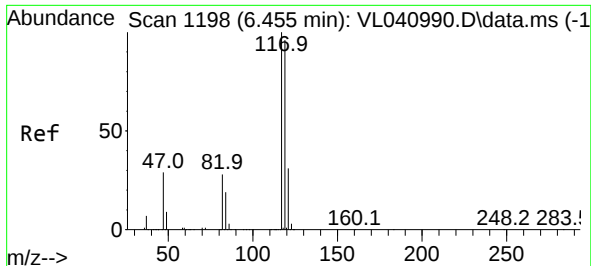
Reviewed By :Mahesh Dadoda 01/25/2024  
Supervised By :Semsettin Yesilyurt 01/25/2024



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.623 min Scan# 1250  
Delta R.T. 0.006 min  
Lab File: VL041018.D  
Acq: 24 Jan 2024 16:23

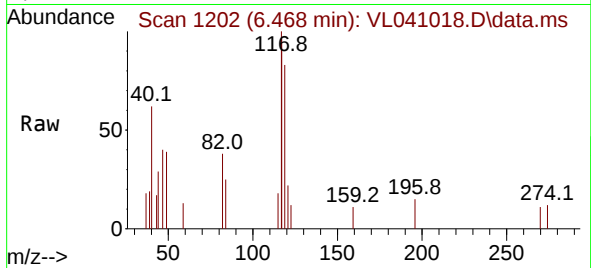
Tgt Ion:114 Resp: 2419952  
Ion Ratio Lower Upper  
114 100  
63 26.5 20.8 31.2  
88 18.3 14.3 21.5





#35  
Carbon Tetrachloride  
Concen: 0.037 ppbv m  
RT: 6.468 min Scan# 1198  
Delta R.T. 0.010 min  
Lab File: VL041018.D  
Acq: 24 Jan 2024 16:23

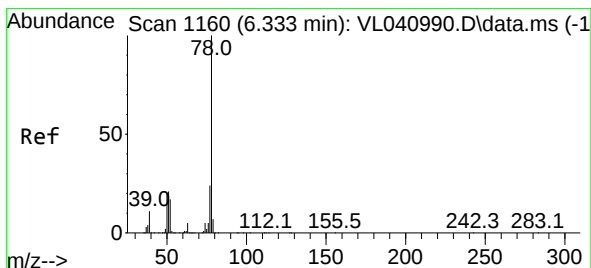
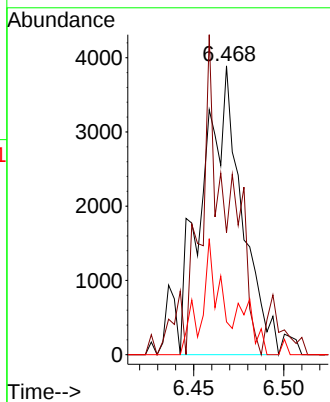
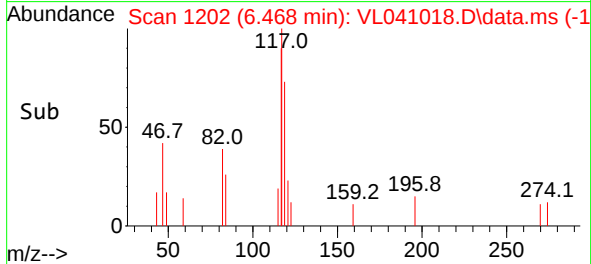
Instrument : MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2024



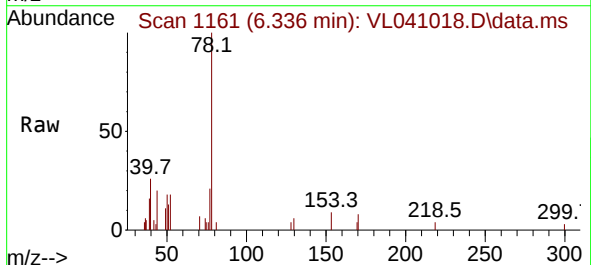
Tgt Ion: 117 Resp: 589  
Ion Ratio Lower Upper  
117 100  
119 83.0 76.9 115.3  
121 22.4 24.7 37.1

Manual Integrations  
APPROVED

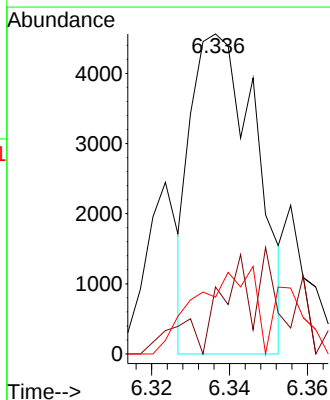
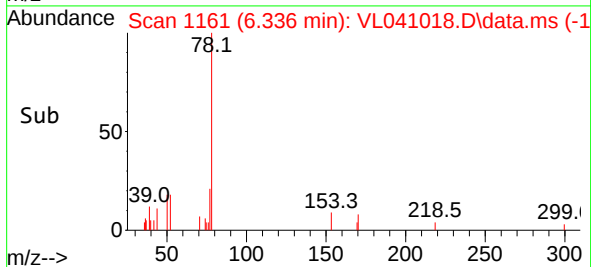
Reviewed By :Mahesh Dadoda 01/25/2024  
Supervised By :Semsettin Yesilyurt 01/25/2024

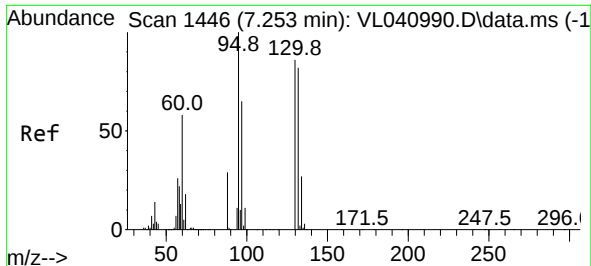


#36  
Benzene  
Concen: 0.026 ppbv  
RT: 6.336 min Scan# 1161  
Delta R.T. 0.003 min  
Lab File: VL041018.D  
Acq: 24 Jan 2024 16:23



Tgt Ion: 78 Resp: 5285  
Ion Ratio Lower Upper  
78 100  
77 18.6 19.0 28.4#  
50 9.1 15.8 23.6#





#38

Trichloroethene

Concen: 0.039 ppbv m

RT: 7.266 min Scan# 1446

Delta R.T. 0.013 min

Lab File: VL041018.D

Acq: 24 Jan 2024 16:23

Instrument :

MSVOA\_L

ClientSampleId :

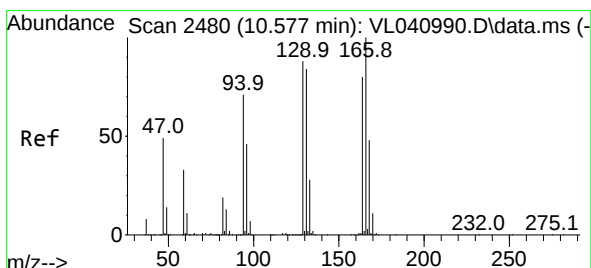
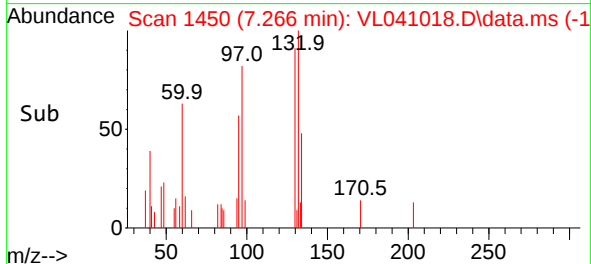
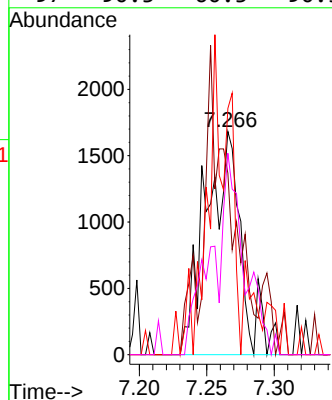
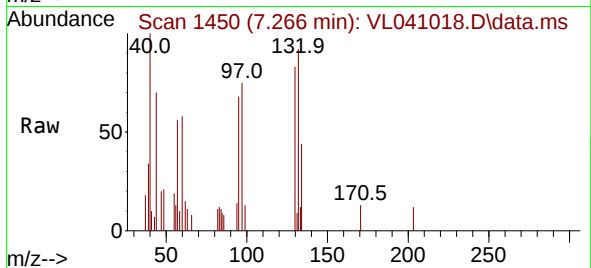
LOD-MDL-AIR-01-QT1-2024

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 130   | Resp: | 309   |
| Ion Ratio | Lower | Upper |       |
| 130       | 100   |       |       |
| 95        | 81.3  | 92.9  | 139.3 |
| 132       | 110.3 | 76.2  | 114.2 |
| 97        | 90.3  | 60.3  | 90.5  |

Manual Integrations

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Reviewed By :Mahesh Dadoda 01/25/2024  
Supervised By :Semsettin Yesilyurt 01/25/2024



#52

Tetrachloroethene

Concen: 0.027 ppbv m

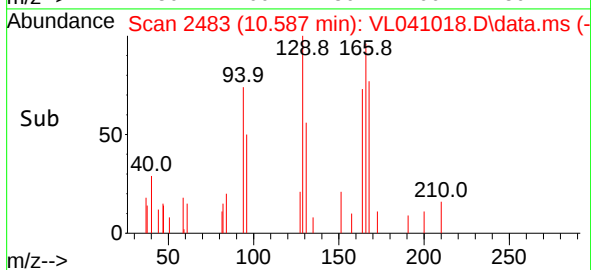
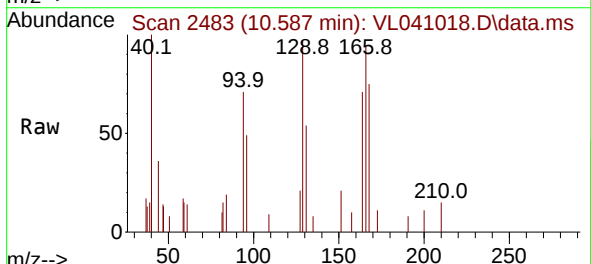
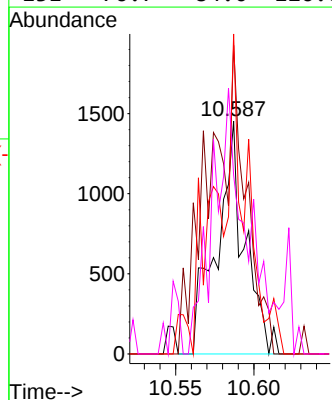
RT: 10.587 min Scan# 2483

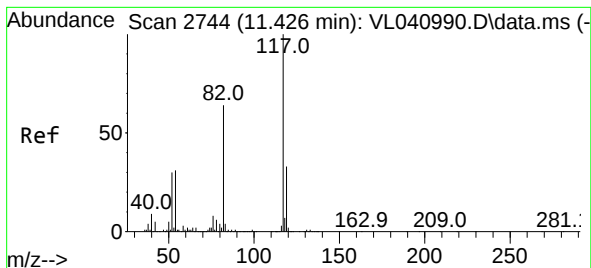
Delta R.T. 0.013 min

Lab File: VL041018.D

Acq: 24 Jan 2024 16:23

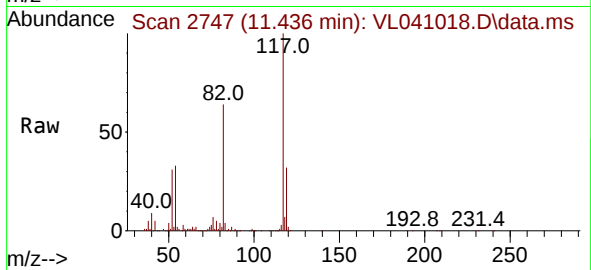
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 1807  |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 166       | 132.6 | 100.2 | 150.2 |
| 129       | 137.4 | 87.9  | 131.9 |
| 131       | 76.7  | 84.0  | 126.0 |





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.436 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VL041018.D  
Acq: 24 Jan 2024 16:23

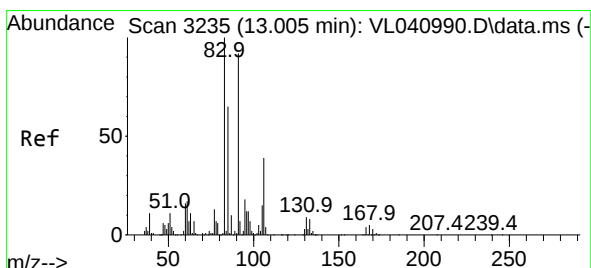
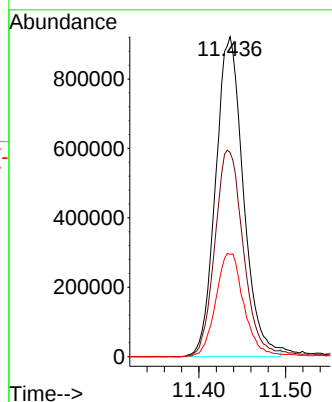
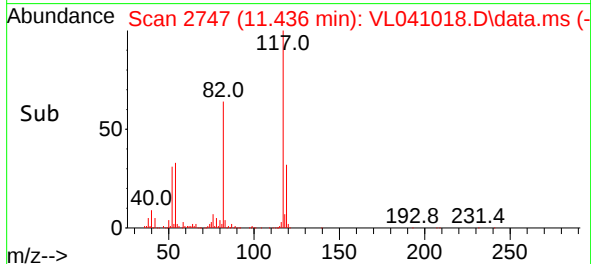
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT1-2024



Tgt Ion: 117 Resp: 2054734  
Ion Ratio Lower Upper  
117 100  
82 67.7 51.7 77.5  
119 33.4 23.8 35.6

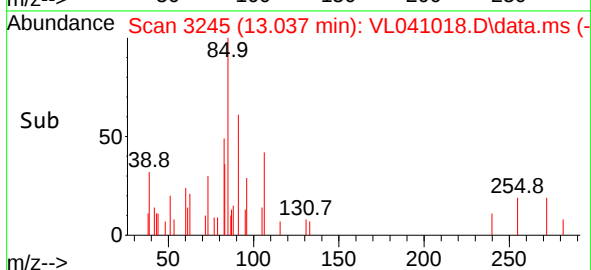
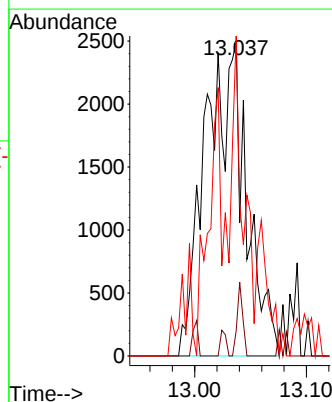
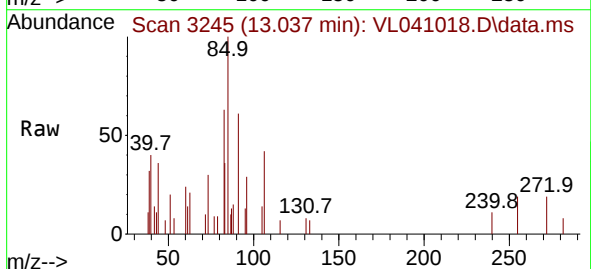
Manual Integrations  
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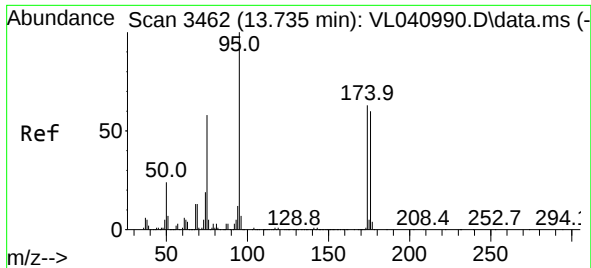
Reviewed By :Mahesh Dadoda 01/25/2024  
Supervised By :Semsettin Yesilyurt 01/25/2024



#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.035 ppbv m  
RT: 13.037 min Scan# 3245  
Delta R.T. 0.026 min  
Lab File: VL041018.D  
Acq: 24 Jan 2024 16:23

Tgt Ion: 83 Resp: 6328  
Ion Ratio Lower Upper  
83 100  
131 0.0 4.6 13.8#  
85 0.0 33.0 99.0#





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.182 ppbv  
 RT: 13.744 min Scan# 3465  
 Delta R.T. 0.006 min  
 Lab File: VL041018.D  
 Acq: 24 Jan 2024 16:23

Instrument : MSVOA\_L  
 ClientSampleId :  
 LOD-MDL-AIR-01-QT1-2024

Tgt Ion: 95 Resp: 1580170  
 Ion Ratio Lower Upper  
 95 100  
 174 59.5 49.1 73.7  
 175 4.5 3.7 5.5

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 01/25/2024  
 Supervised By :Semsettin Yesilyurt 01/25/2024

