

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL071023\  
 Data File : VL040517.D  
 Acq On : 10 Jul 2023 21:54  
 Operator : SY/MD  
 Sample : 03535-03DUP  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA1DUP

Quant Time: Jul 11 02:10:59 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL071023AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Mon Jul 10 16:32:00 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 07/11/2023  
 Supervised By : Mahesh Dadoda 07/11/2023

07/11/2023  
 Supervised By : Mahesh  
 Dadoda

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.195  | 49    | 979196   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 6.655  | 114   | 2442662  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 11.468 | 117   | 2072010  | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.780 | 95    | 1603352  | 9.777    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 97.800%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 2.735  | 85    | 83032    | 0.424    | ppbv   | 97       |
| 3) Chlorodifluoromethane    | 2.681  | 51    | 130171   | 0.839    | ppbv   | 99       |
| 4) Chloromethane            | 2.819  | 50    | 35370    | 0.575    | ppbv # | 79       |
| 9) Propene                  | 2.713  | 41    | 58636    | 1.104    | ppbv # | 75       |
| 10) Heptane                 | 7.584  | 43    | 8954     | 0.076    | ppbv # | 1        |
| 11) Trichlorofluoromethane  | 3.571  | 101   | 45723    | 0.289    | ppbv # | 76       |
| 13) Ethanol                 | 3.243  | 45    | 140902   | 12.188   | ppbv   | 100      |
| 15) Acetone                 | 3.472  | 43    | 901785   | 8.001    | ppbv   | 94       |
| 17) tert-Butyl alcohol      | 3.896  | 59    | 26363m   | 0.226    | ppbv   |          |
| 20) Methylene Chloride      | 3.935  | 84    | 255438   | 5.328    | ppbv   | 98       |
| 26) Hexane                  | 5.218  | 57    | 169112   | 1.696    | ppbv # | 42       |
| 29) Chloroform              | 5.282  | 83    | 11901    | 0.072    | ppbv # | 75       |
| 34) 2-Butanone              | 4.796  | 43    | 52069    | 0.431    | ppbv   | 95       |
| 35) Carbon Tetrachloride    | 6.500  | 117   | 11854m   | 0.081    | ppbv   |          |
| 36) Benzene                 | 6.375  | 78    | 54183    | 0.276    | ppbv   | 97       |
| 44) 2,2,4-Trimethylpentane  | 7.324  | 57    | 68337m   | 0.216    | ppbv   |          |
| 52) Tetrachloroethene       | 10.622 | 164   | 7002m    | 0.110    | ppbv   |          |
| 53) Toluene                 | 9.224  | 91    | 434747   | 2.036    | ppbv   | 99       |
| 58) Ethyl Benzene           | 12.089 | 91    | 64553m   | 0.248    | ppbv   |          |
| 59) m/p-Xylene              | 12.349 | 91    | 197196   | 0.850    | ppbv   | 96       |
| 60) o-Xylene                | 13.060 | 91    | 89128    | 0.403    | ppbv   | 99       |
| 61) Styrene                 | 12.905 | 104   | 56714    | 0.556    | ppbv   | 96       |
| 69) p-Isopropyltoluene      | 16.995 | 119   | 67445m   | 0.189    | ppbv   |          |
| 73) 1,3,5-Trimethylbenzene  | 15.355 | 105   | 28614    | 0.125    | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene  | 16.108 | 105   | 128175   | 0.481    | ppbv # | 64       |

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

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Data File : VL040517.D  
Acq On : 10 Jul 2023 21:54  
Operator : SY/MD  
Sample : 03535-03DUP  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP

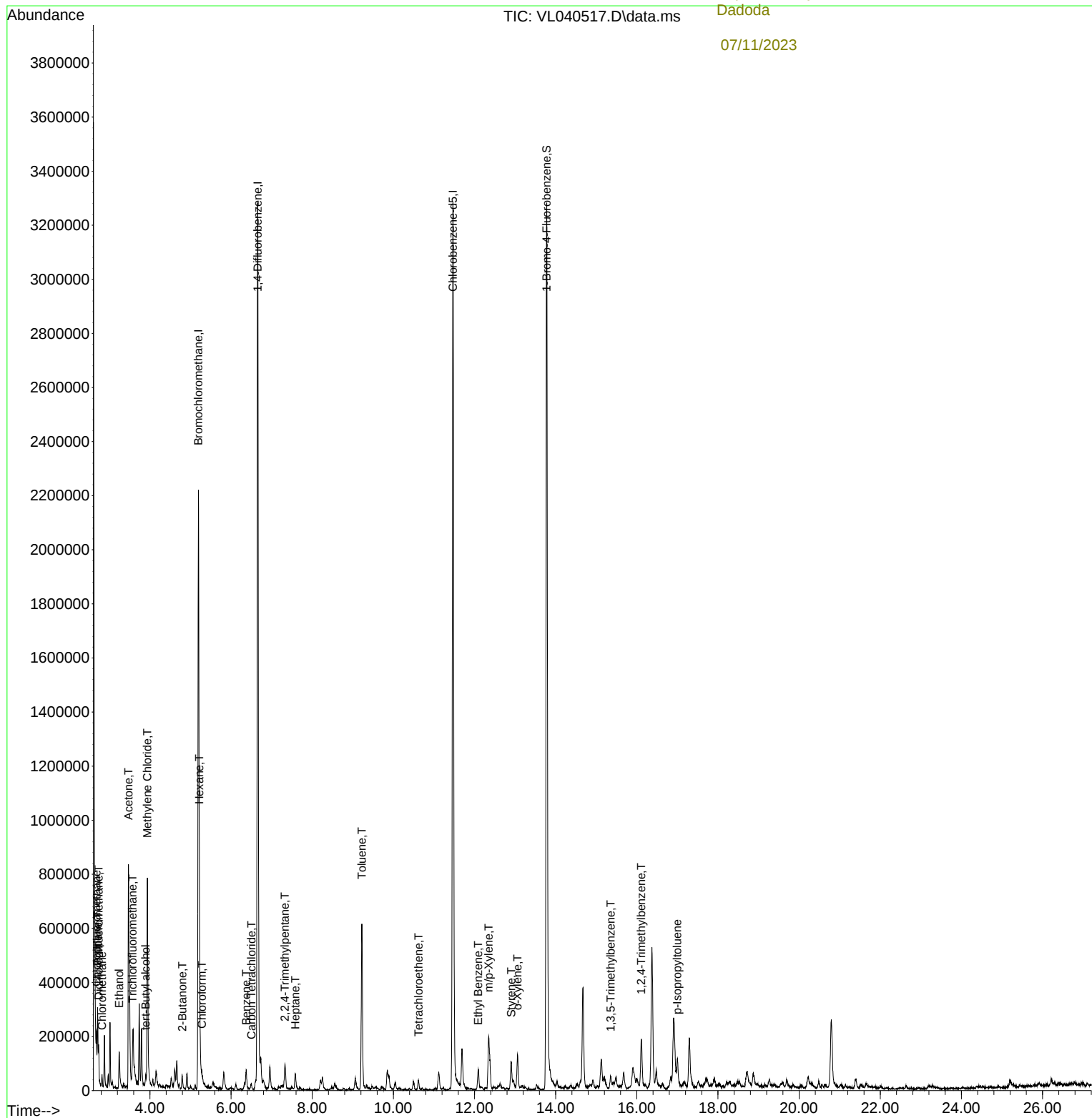
Quant Time: Jul 11 02:10:59 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL071023AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Mon Jul 10 16:32:00 2023  
Response via : Initial Calibration

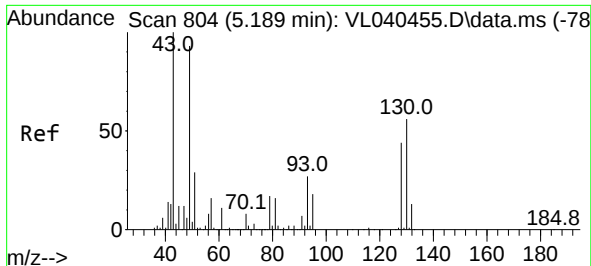
Manual Integrations  
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Supervised By : Mahesh Dadoda 07/11/2023

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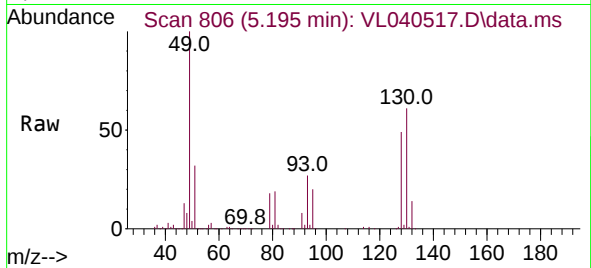
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#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.195 min Scan# 804  
Delta R.T. -0.007 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP



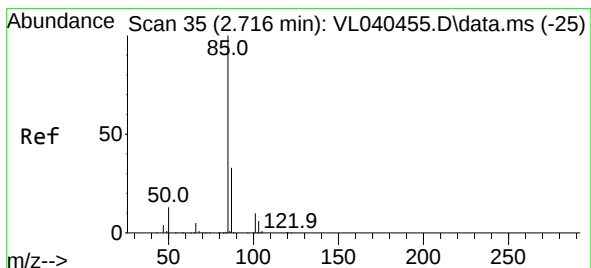
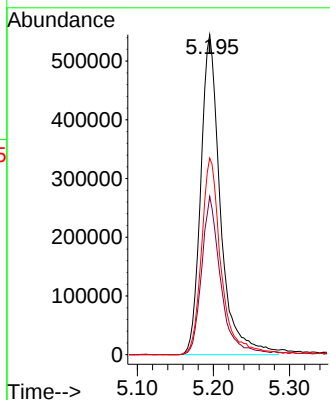
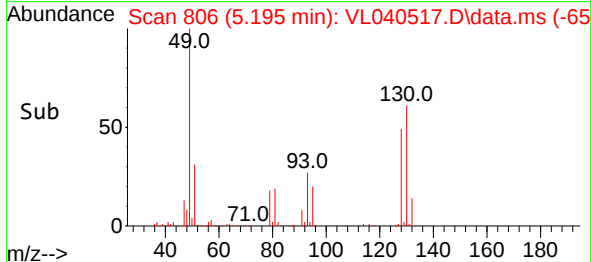
Tgt Ion: 49 Resp: 979190  
Ion Ratio Lower Upper  
49 100  
128 48.9 25.1 75.4  
130 62.5 31.6 94.7

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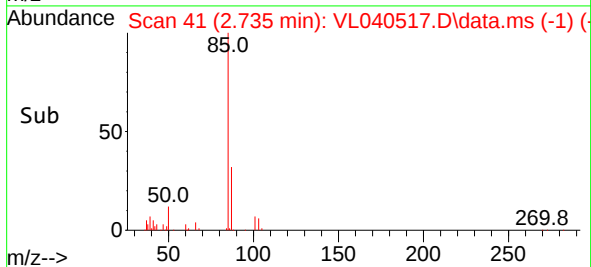
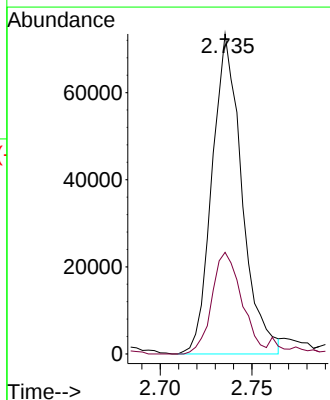
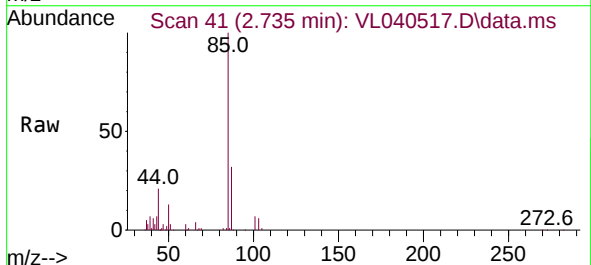
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Dadoda

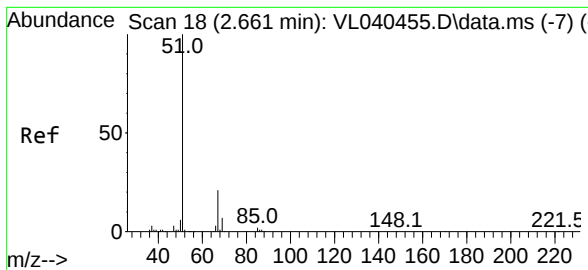
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#2  
Dichlorodifluoromethane  
Concen: 0.424 ppbv  
RT: 2.735 min Scan# 41  
Delta R.T. -0.003 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54

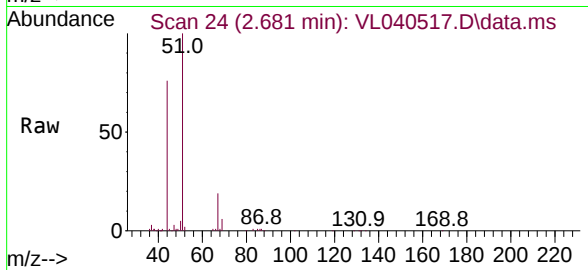
Tgt Ion: 85 Resp: 83032  
Ion Ratio Lower Upper  
85 100  
87 31.8 26.8 40.2





#3  
Chlorodifluoromethane  
Concen: 0.839 ppbv  
RT: 2.681 min Scan# 24  
Delta R.T. -0.003 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54

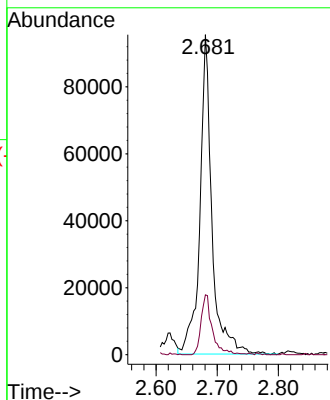
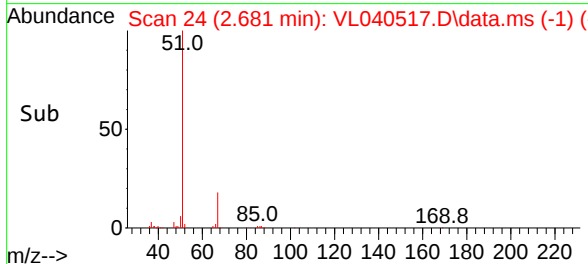
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP



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Ion Ratio Lower Upper  
51 100  
67 17.8 14.6 21.8

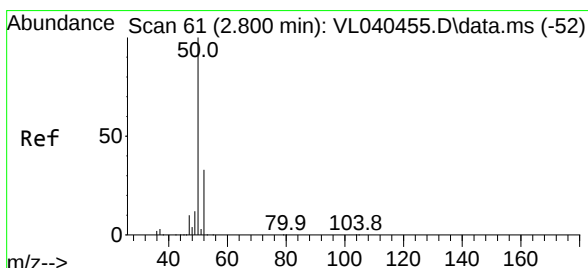
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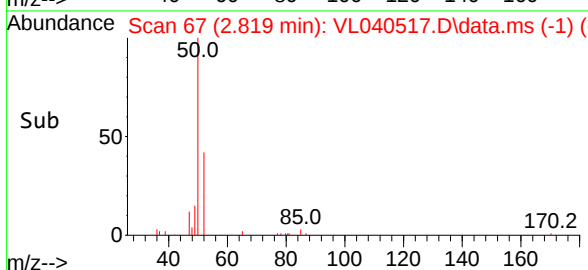
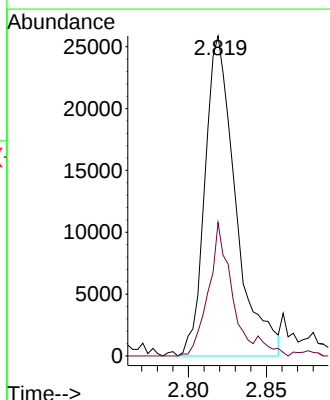
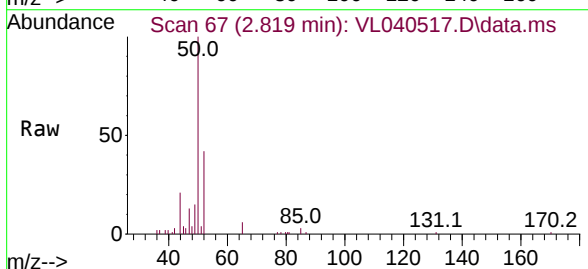
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Dadoda

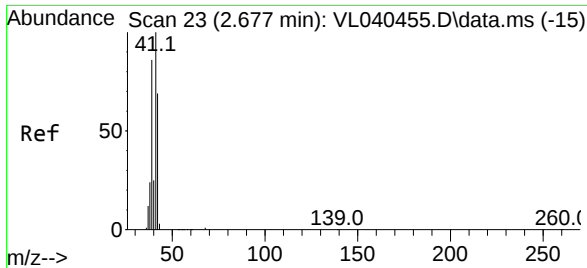
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#4  
Chloromethane  
Concen: 0.575 ppbv  
RT: 2.819 min Scan# 67  
Delta R.T. -0.003 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54

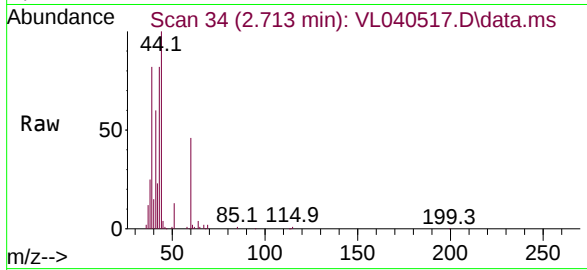
Tgt Ion: 50 Resp: 35370  
Ion Ratio Lower Upper  
50 100  
52 41.7 24.4 36.6





#9  
Propene  
Concen: 1.104 ppbv  
RT: 2.713 min Scan# 34  
Delta R.T. 0.010 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54

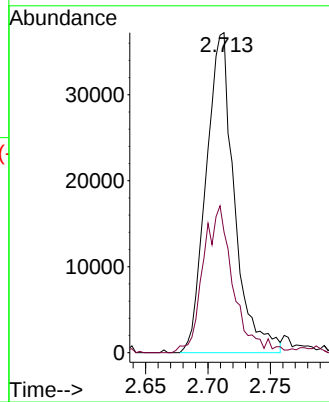
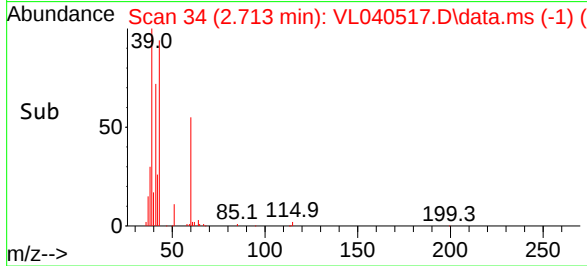
Instrument :  
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Tgt Ion: 41 Resp: 58630  
Ion Ratio Lower Upper  
41 100  
42 48.6 55.0 82.6

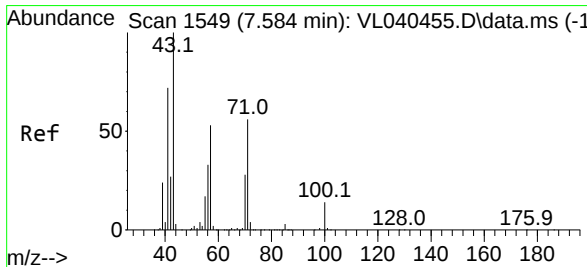
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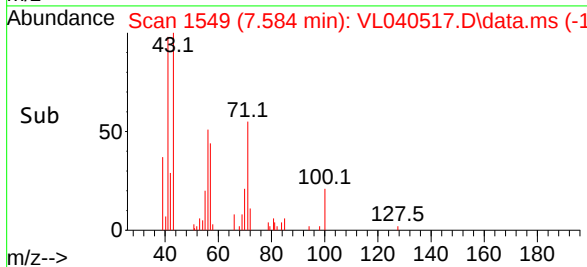
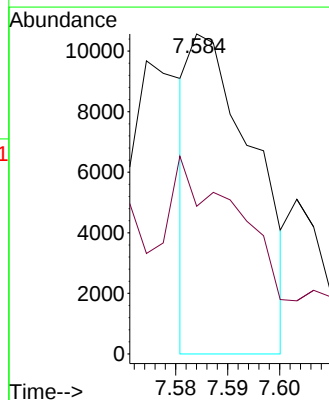
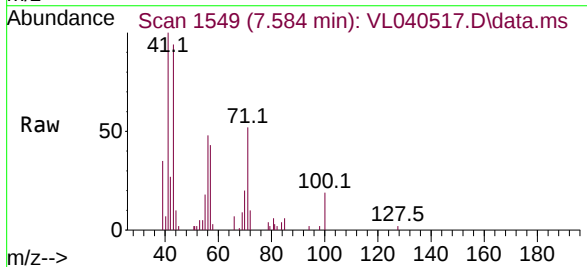
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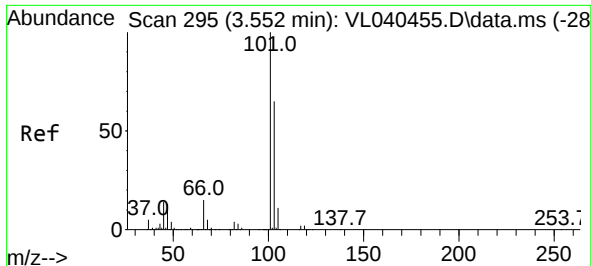
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#10  
Heptane  
Concen: 0.076 ppbv  
RT: 7.584 min Scan# 1549  
Delta R.T. -0.006 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54

Tgt Ion: 43 Resp: 8954  
Ion Ratio Lower Upper  
43 100  
57 139.7 42.5 63.7





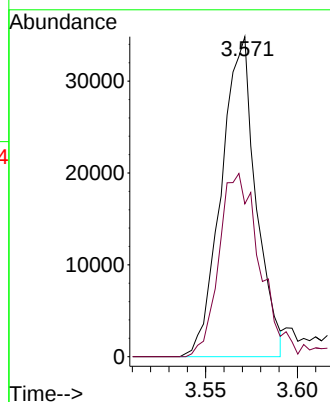
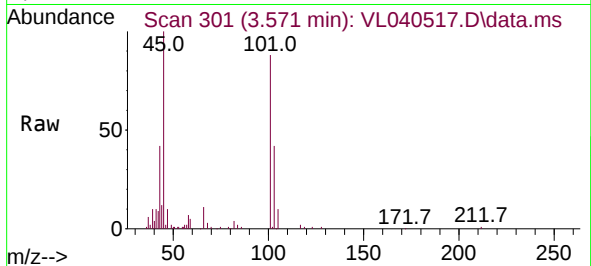
#11  
Trichlorofluoromethane  
Concen: 0.289 ppbv  
RT: 3.571 min Scan# 301  
Delta R.T. -0.000 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP

Tgt Ion:101 Resp: 45723  
Ion Ratio Lower Upper  
101 100  
103 47.7 53.4 80.0

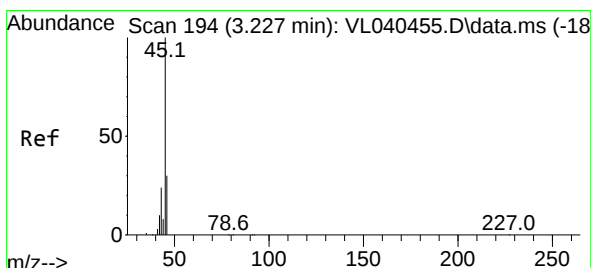
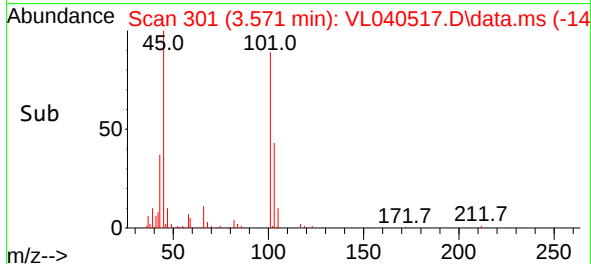
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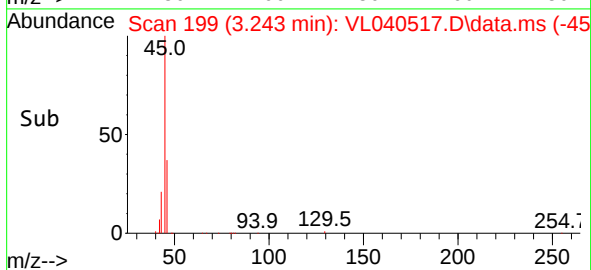
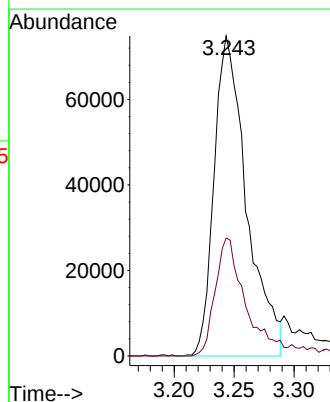
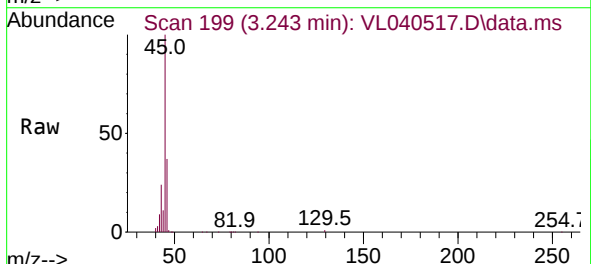
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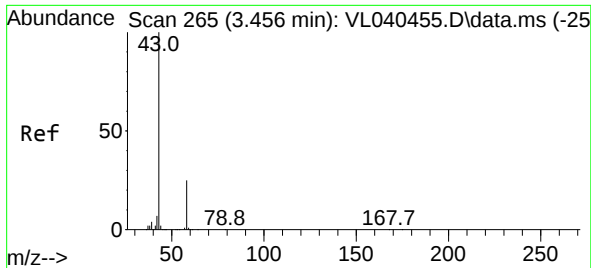
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#13  
Ethanol  
Concen: 12.188 ppbv  
RT: 3.243 min Scan# 199  
Delta R.T. -0.003 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54

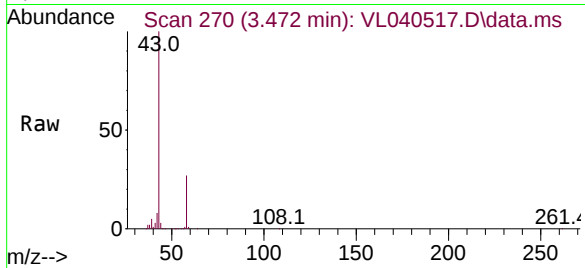
Tgt Ion: 45 Resp: 140902  
Ion Ratio Lower Upper  
45 100  
46 38.0 15.3 61.1





#15  
Acetone  
Concen: 8.001 ppbv  
RT: 3.472 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54

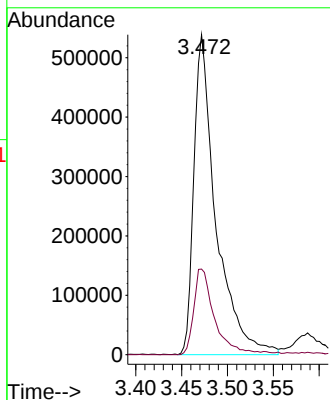
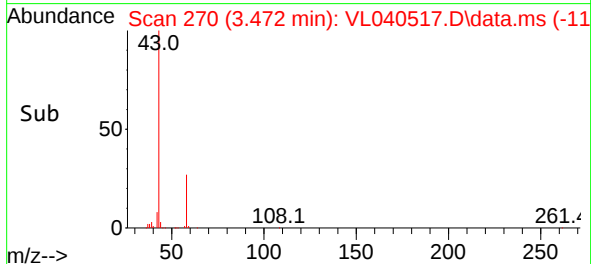
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP



Tgt Ion: 43 Resp: 90178  
Ion Ratio Lower Upper  
43 100  
58 25.5 22.9 34.3

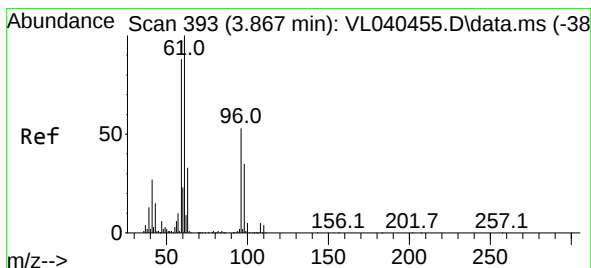
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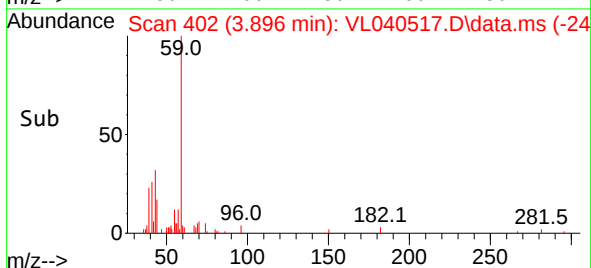
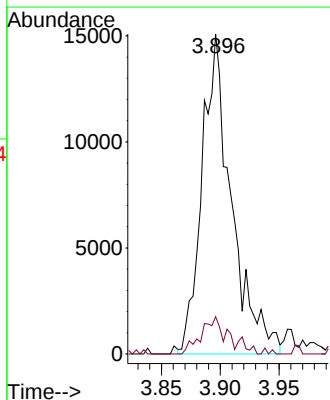
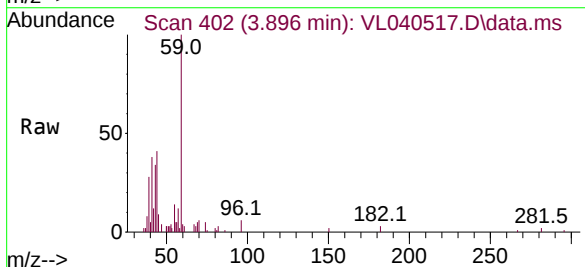
07/11/2023  
Supervised By :Mahesh  
Dadoda

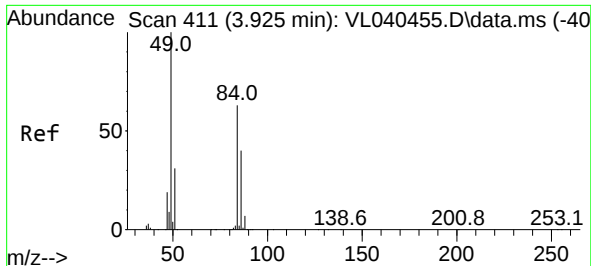
07/11/2023



#17  
tert-Butyl alcohol  
Concen: 0.226 ppbv m  
RT: 3.896 min Scan# 402  
Delta R.T. 0.013 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54

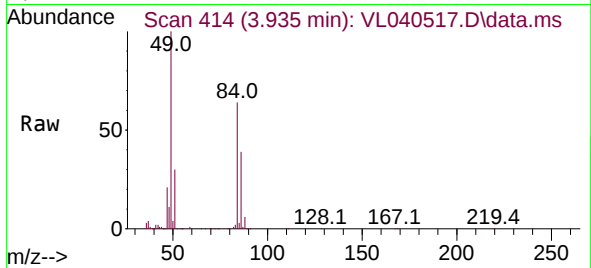
Tgt Ion: 59 Resp: 26363  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.7 13.1#





#20  
Methylene Chloride  
Concen: 5.328 ppbv  
RT: 3.935 min Scan# 411  
Delta R.T. -0.006 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP



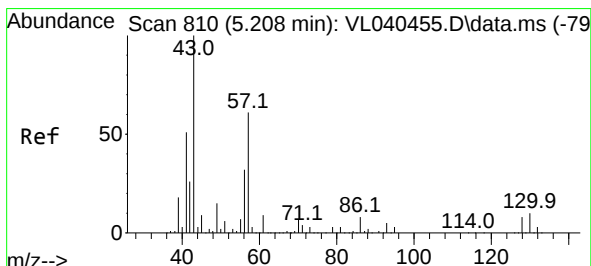
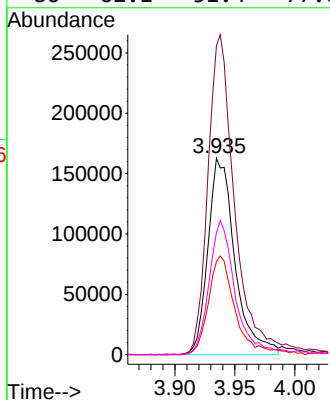
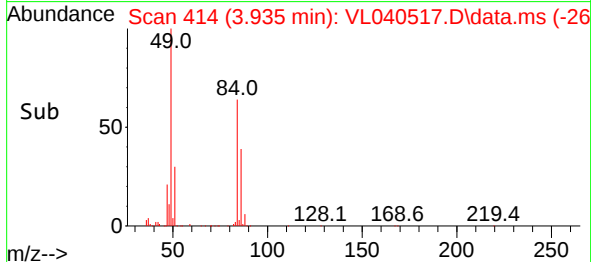
Tgt Ion: 84 Resp: 255438  
Ion Ratio Lower Upper  
84 100  
49 157.0 123.4 185.2  
51 47.2 38.3 57.5  
86 62.1 51.4 77.0

Manual Integrations  
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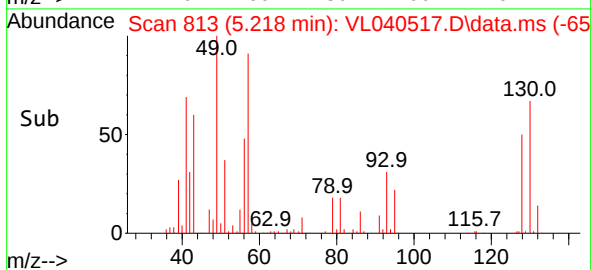
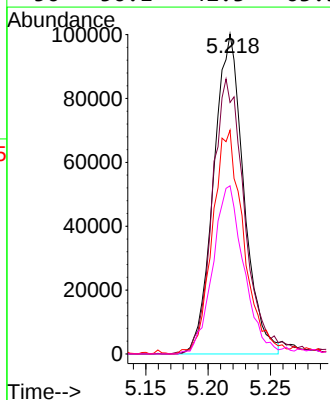
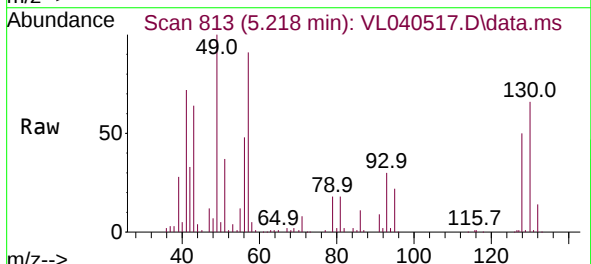
07/11/2023  
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Dadoda

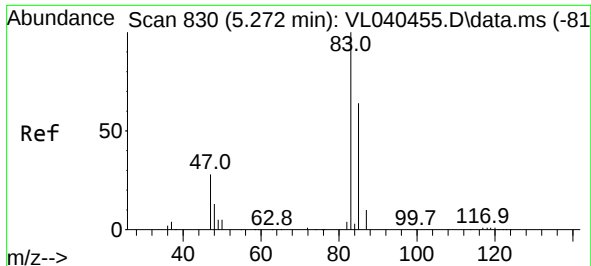
07/11/2023



#26  
Hexane  
Concen: 1.696 ppbv  
RT: 5.218 min Scan# 813  
Delta R.T. -0.003 min  
Lab File: VL040517.D  
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Tgt Ion: 57 Resp: 169112  
Ion Ratio Lower Upper  
57 100  
41 95.0 69.5 104.3  
43 76.0 177.1 265.7#  
56 56.1 42.3 63.5





#29

Chloroform

Concen: 0.072 ppbv

RT: 5.282 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL040517.D

Acq: 10 Jul 2023 21:54

Instrument :

MSVOA\_L

ClientSampleId :

IA1DUP

Tgt Ion: 83 Resp: 1190

Ion Ratio Lower Upper

83 100

85 44.7 51.1 76.7

Manual Integrations

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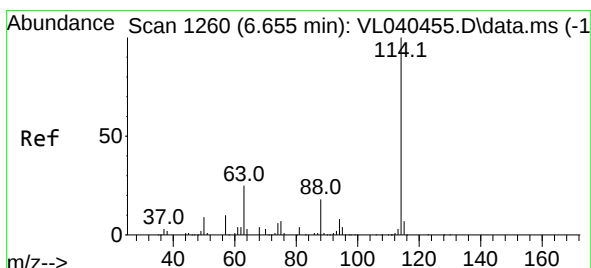
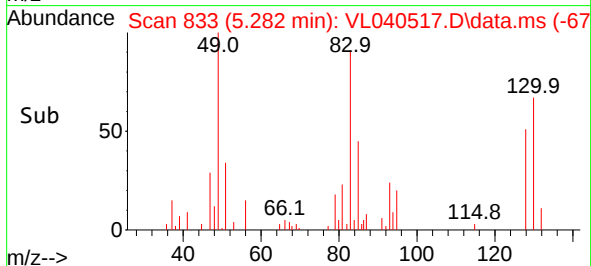
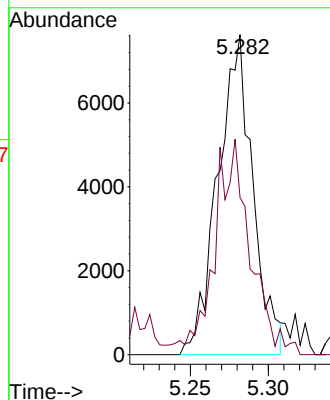
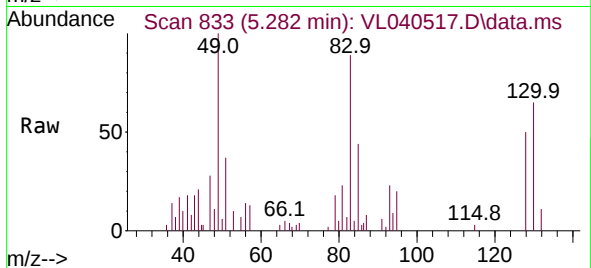
Reviewed By :Semsettin Yesilyurt 07/11/2023

Supervised By :Mahesh Dadoda 07/11/2023

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Supervised By :Mahesh  
Dadoda

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 1260

Delta R.T. -0.010 min

Lab File: VL040517.D

Acq: 10 Jul 2023 21:54

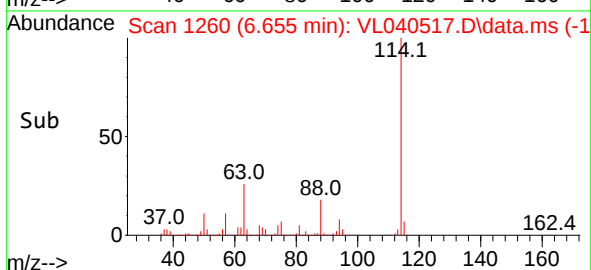
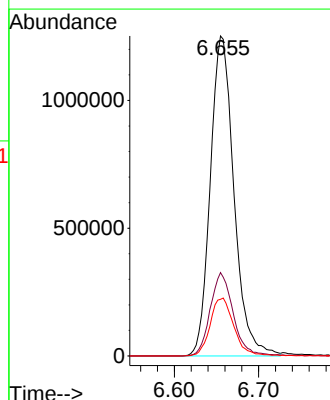
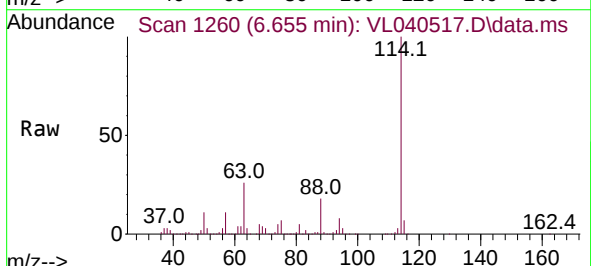
Tgt Ion:114 Resp: 2442662

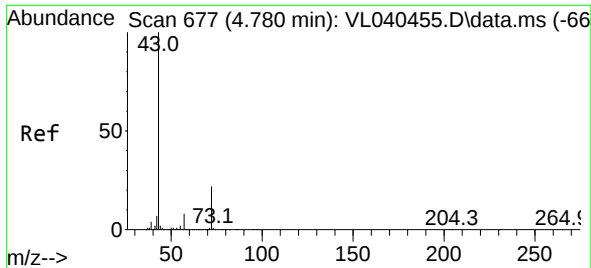
Ion Ratio Lower Upper

114 100

63 25.7 19.6 29.4

88 18.2 14.2 21.2





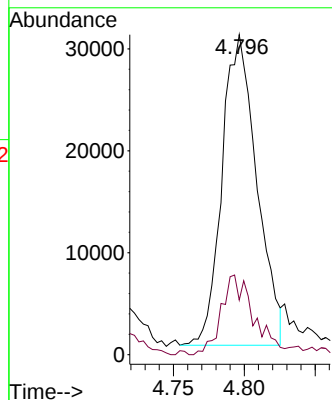
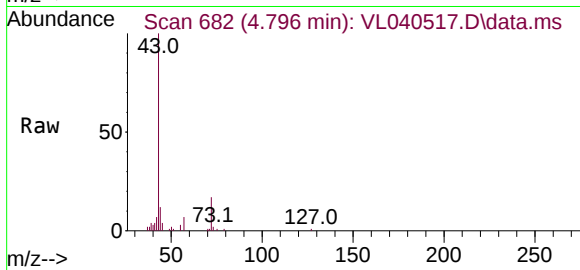
#34  
2-Butanone  
Concen: 0.431 ppbv  
RT: 4.796 min Scan# 61  
Delta R.T. 0.003 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP

Tgt Ion: 43 Resp: 52069  
Ion Ratio Lower Upper  
43 100  
72 26.3 19.1 28.7

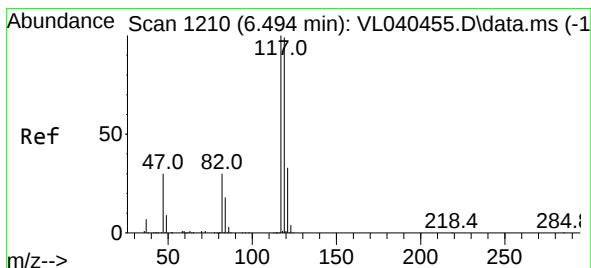
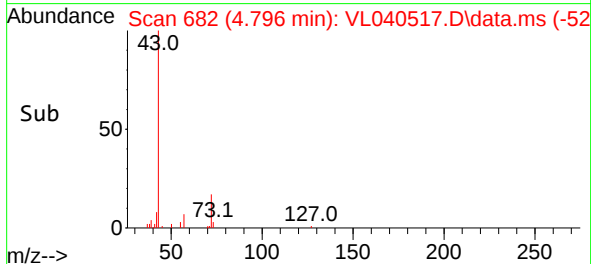
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 07/11/2023  
Supervised By :Mahesh Dadoda 07/11/2023



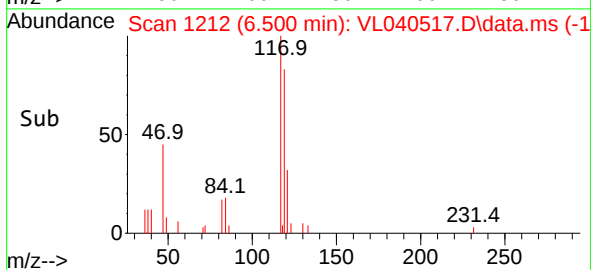
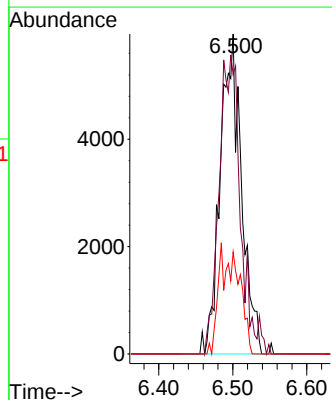
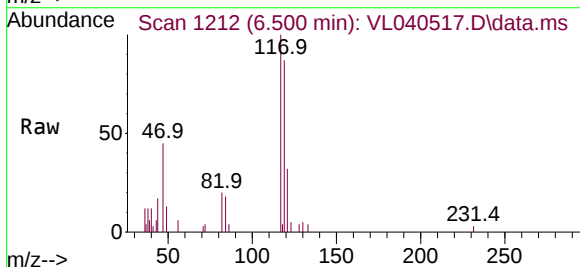
07/11/2023  
Supervised By :Mahesh  
Dadoda

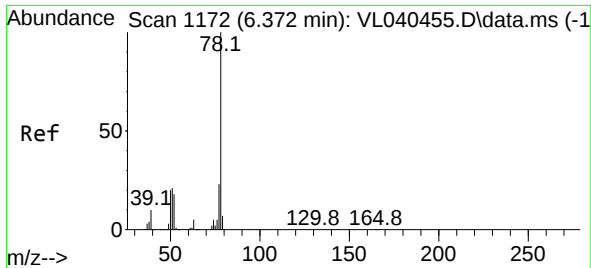
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#35  
Carbon Tetrachloride  
Concen: 0.081 ppbv m  
RT: 6.500 min Scan# 1212  
Delta R.T. -0.003 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54

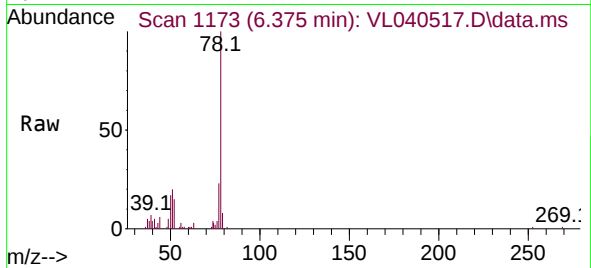
Tgt Ion:117 Resp: 11854  
Ion Ratio Lower Upper  
117 100  
119 87.3 77.8 116.6  
121 31.9 24.8 37.2





#36  
Benzene  
Concen: 0.276 ppbv  
RT: 6.375 min Scan# 1172  
Delta R.T. -0.006 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54

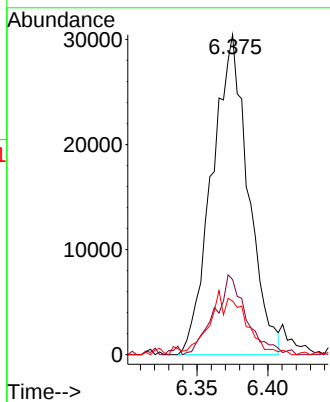
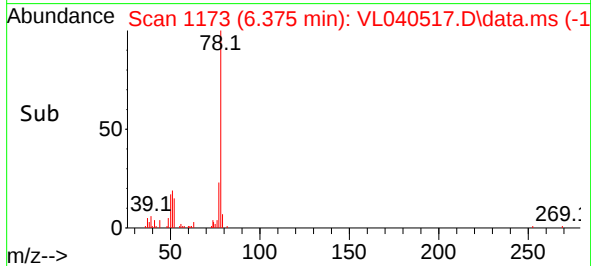
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP



Tgt Ion: 78 Resp: 5418  
Ion Ratio Lower Upper  
78 100  
77 21.4 17.4 26.0  
50 15.9 14.4 21.6

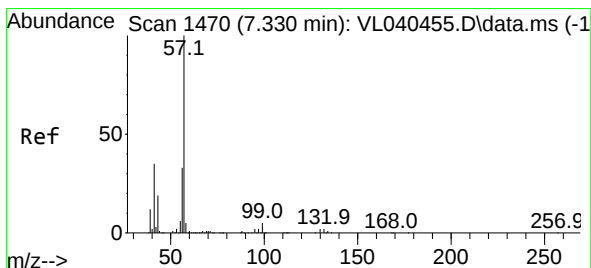
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 07/11/2023  
Supervised By :Mahesh Dadoda 07/11/2023

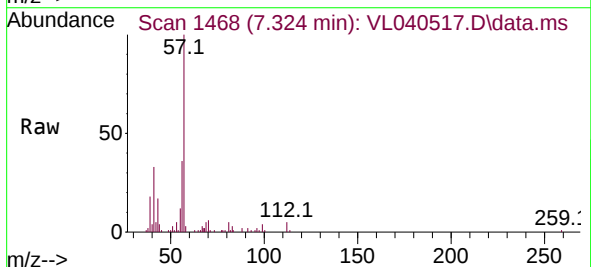


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Supervised By :Mahesh  
Dadoda

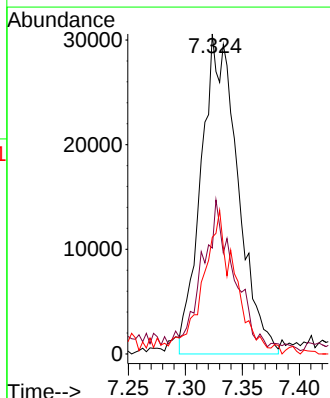
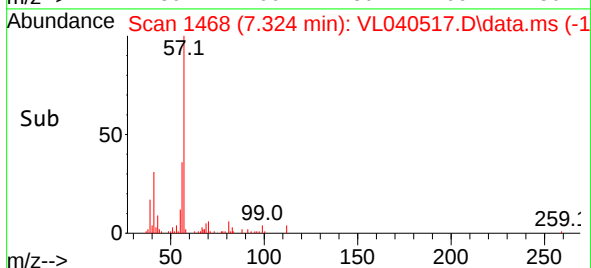
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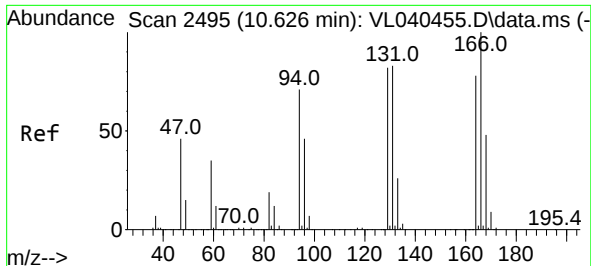


#44  
2,2,4-Trimethylpentane  
Concen: 0.216 ppbv m  
RT: 7.324 min Scan# 1468  
Delta R.T. -0.013 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54



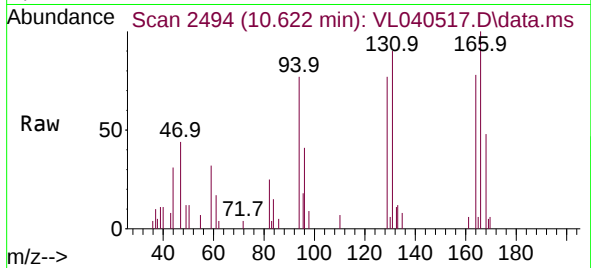
Tgt Ion: 57 Resp: 68337  
Ion Ratio Lower Upper  
57 100  
41 0.0 25.5 38.3#  
56 0.0 25.1 37.7#





#52  
Tetrachloroethene  
Concen: 0.110 ppbv m  
RT: 10.622 min Scan# 2495  
Delta R.T. -0.003 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP



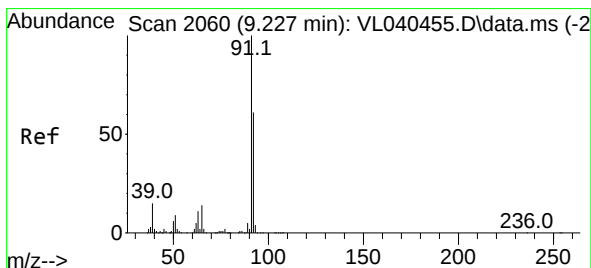
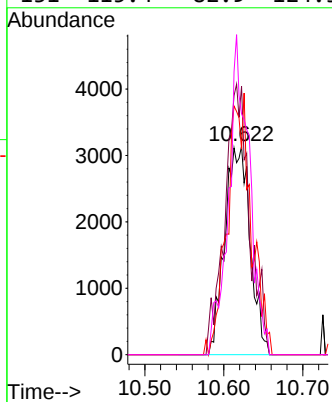
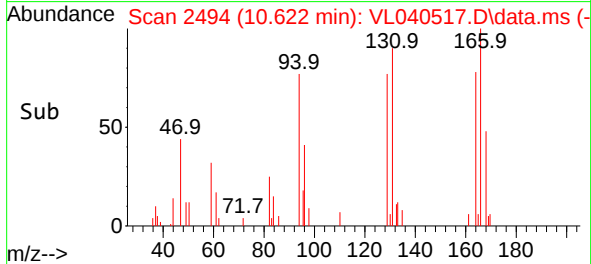
Tgt Ion:164 Resp: 700  
Ion Ratio Lower Upper  
164 100  
166 128.7 103.9 155.9  
129 98.5 84.6 126.8  
131 115.4 82.9 124.3

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Supervised By :Mahesh Dadoda 07/11/2023

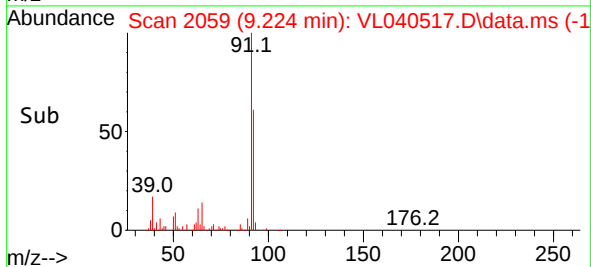
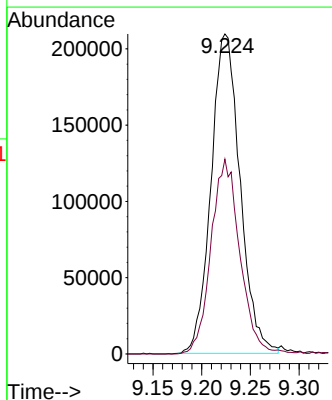
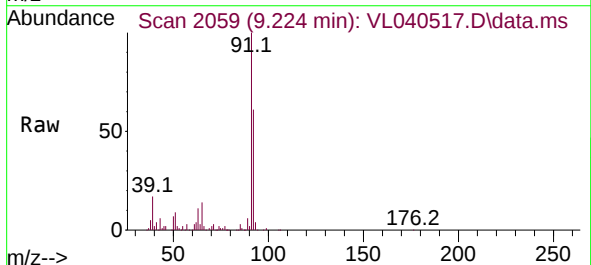
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Dadoda

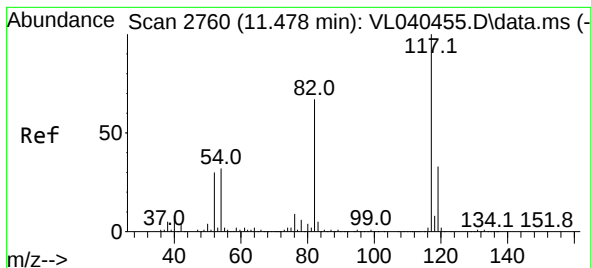
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#53  
Toluene  
Concen: 2.036 ppbv  
RT: 9.224 min Scan# 2059  
Delta R.T. -0.006 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54

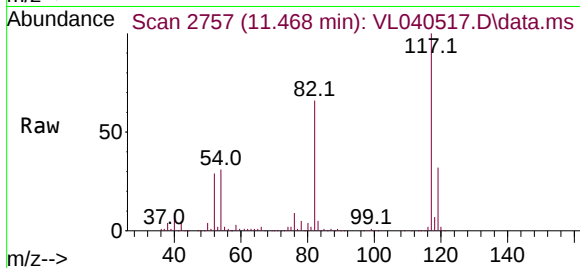
Tgt Ion: 91 Resp: 434747  
Ion Ratio Lower Upper  
91 100  
92 60.6 49.1 73.7





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.468 min Scan# 21  
Delta R.T. -0.010 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP



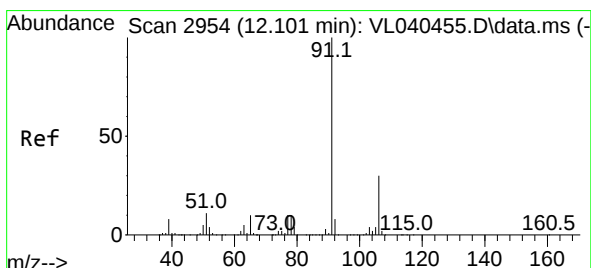
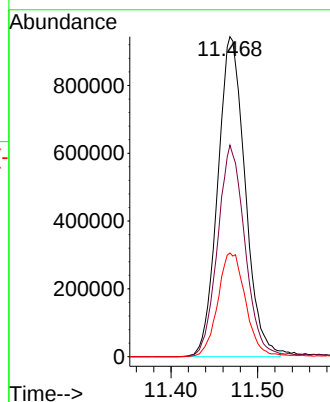
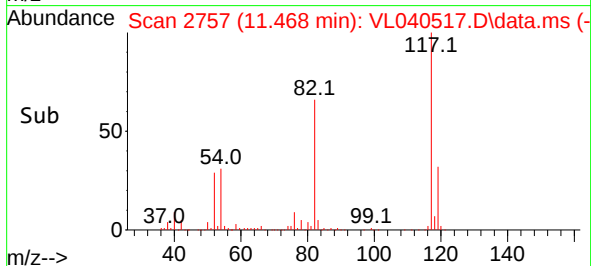
Tgt Ion:117 Resp: 2072010  
Ion Ratio Lower Upper  
117 100  
82 67.4 50.2 75.4  
119 33.2 26.9 40.3

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Supervised By :Mahesh Dadoda 07/11/2023

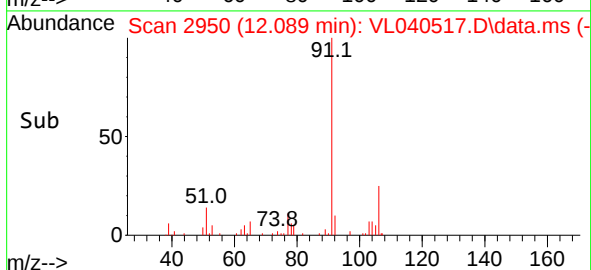
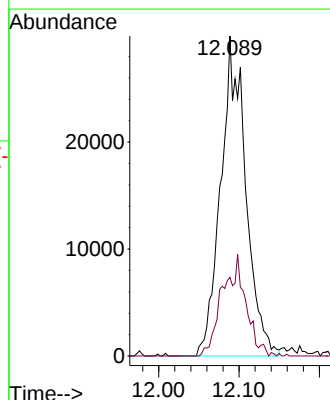
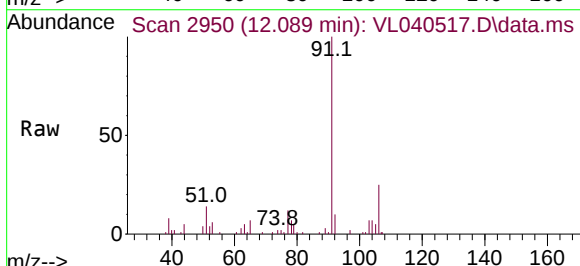
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Supervised By :Mahesh  
Dadoda

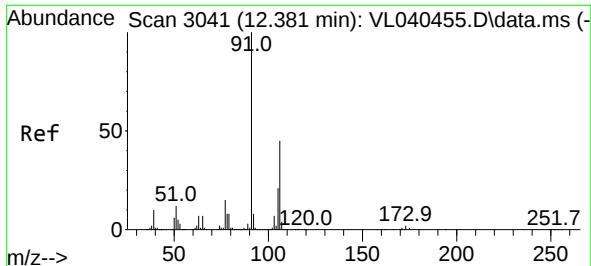
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#58  
Ethyl Benzene  
Concen: 0.248 ppbv m  
RT: 12.089 min Scan# 2950  
Delta R.T. -0.013 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54

Tgt Ion: 91 Resp: 64553  
Ion Ratio Lower Upper  
91 100  
106 24.5 25.4 38.0#





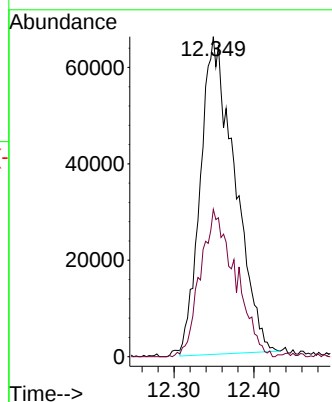
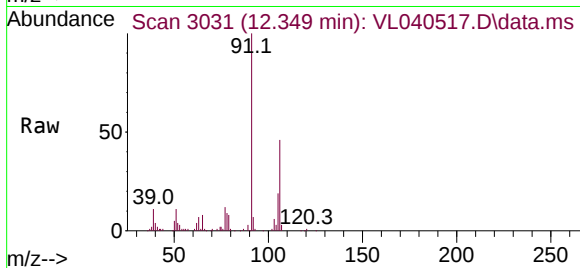
#59  
m/p-Xylene  
Concen: 0.850 ppbv  
RT: 12.349 min Scan# 3041  
Delta R.T. -0.035 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP

Tgt Ion: 91 Resp: 197190  
Ion Ratio Lower Upper  
91 100  
106 47.2 35.9 53.9

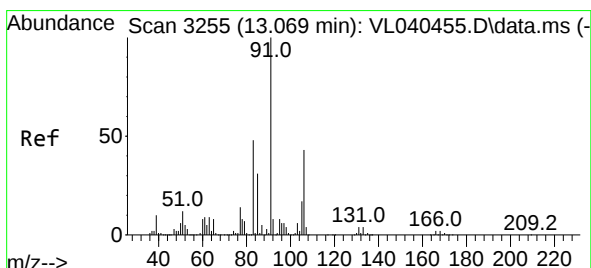
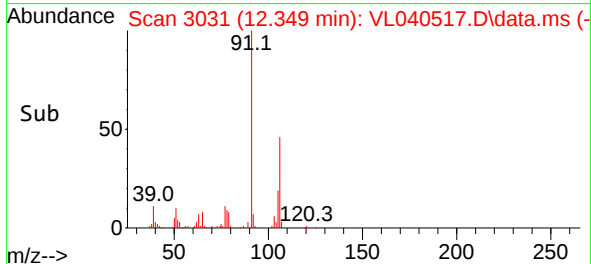
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Reviewed By :Semsettin Yesilyurt 07/11/2023  
Supervised By :Mahesh Dadoda 07/11/2023



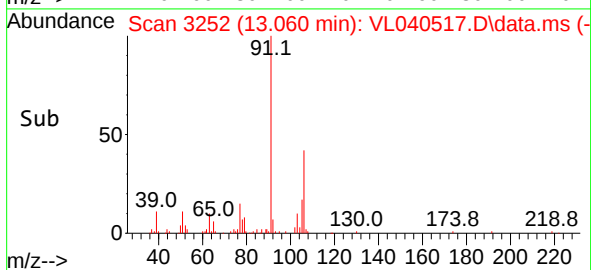
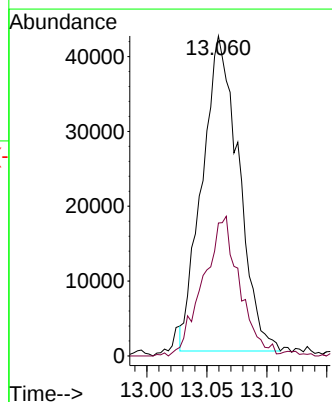
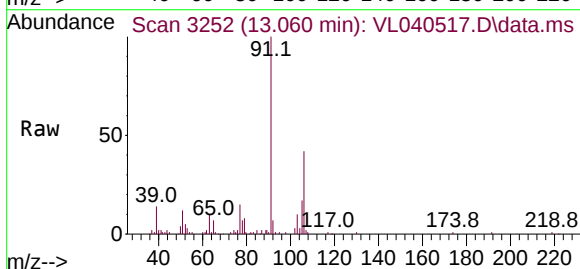
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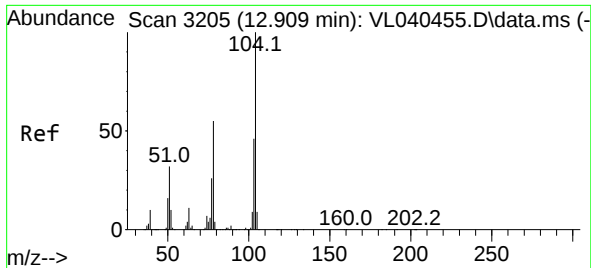
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#60  
o-Xylene  
Concen: 0.403 ppbv  
RT: 13.060 min Scan# 3252  
Delta R.T. -0.010 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54

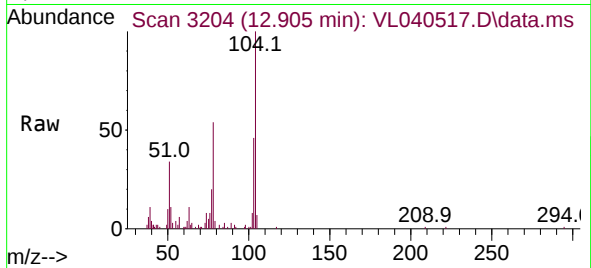
Tgt Ion: 91 Resp: 89128  
Ion Ratio Lower Upper  
91 100  
106 44.9 22.7 68.0





#61  
Styrene  
Concen: 0.556 ppbv  
RT: 12.905 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP



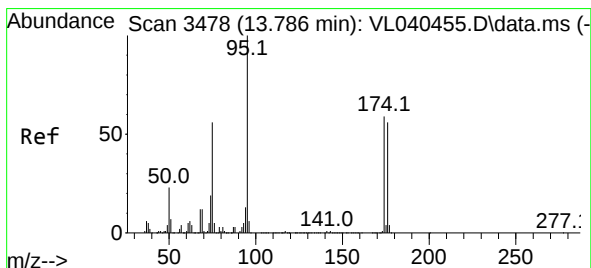
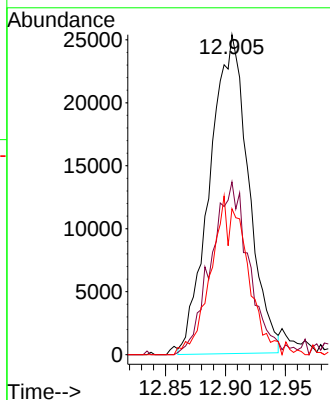
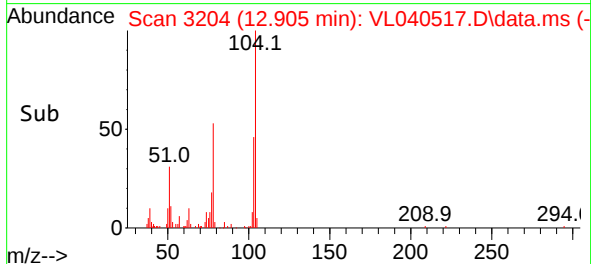
Tgt Ion:104 Resp: 56714  
Ion Ratio Lower Upper  
104 100  
78 54.2 40.1 60.1  
103 47.6 37.0 55.4

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Supervised By :Mahesh Dadoda 07/11/2023

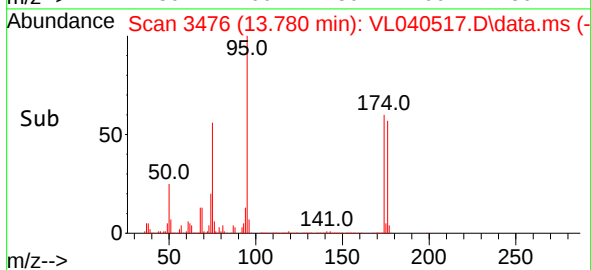
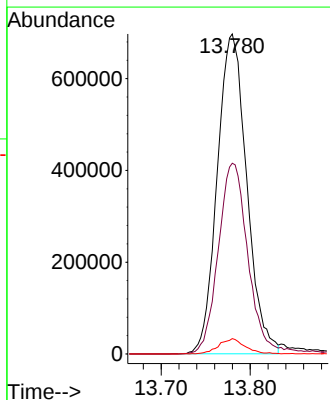
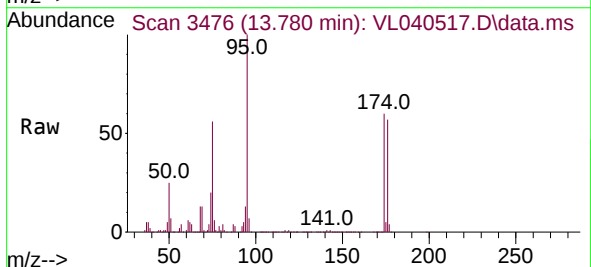
07/11/2023  
Supervised By :Mahesh  
Dadoda

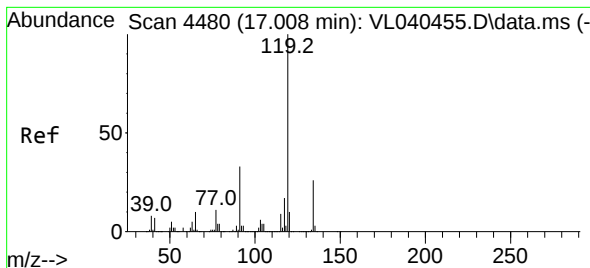
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#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.777 ppbv  
RT: 13.780 min Scan# 3476  
Delta R.T. -0.003 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54

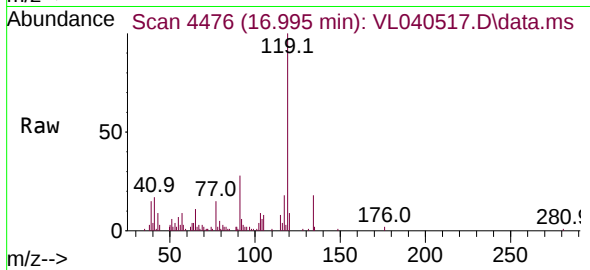
Tgt Ion: 95 Resp: 1603352  
Ion Ratio Lower Upper  
95 100  
174 60.9 50.6 75.8  
175 4.3 3.7 5.5





#69  
p-Isopropyltoluene  
Concen: 0.189 ppbv m  
RT: 16.995 min Scan# 4480  
Delta R.T. -0.010 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54

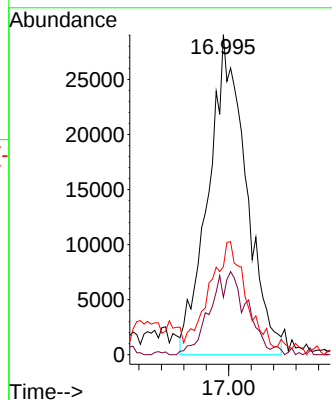
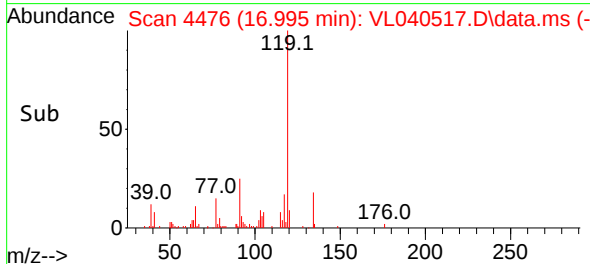
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP



Tgt Ion:119 Resp: 6744  
Ion Ratio Lower Upper  
119 100  
134 0.0 20.5 30.7  
91 0.0 23.8 35.8

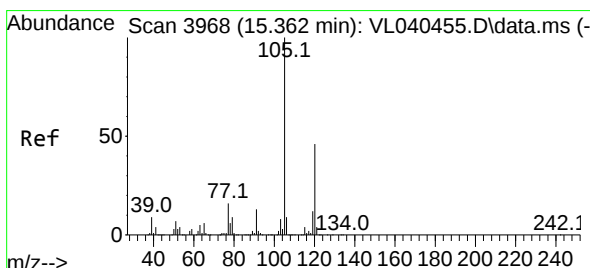
Manual Integrations  
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Supervised By :Mahesh Dadoda 07/11/2023

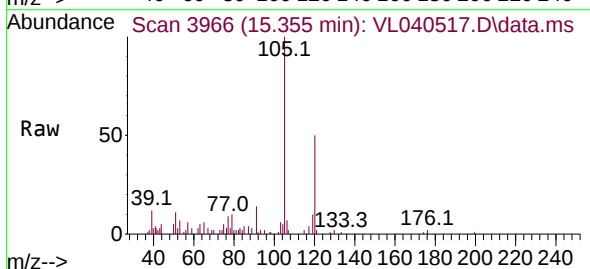


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Supervised By :Mahesh  
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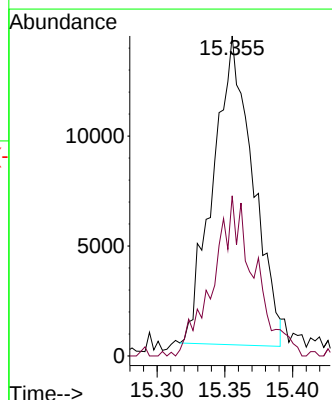
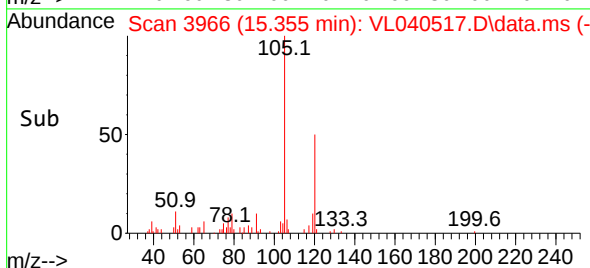
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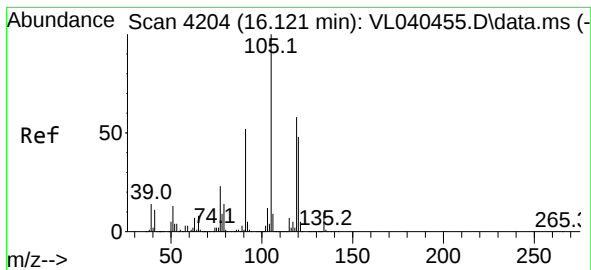


#73  
1,3,5-Trimethylbenzene  
Concen: 0.125 ppbv  
RT: 15.355 min Scan# 3966  
Delta R.T. -0.006 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54



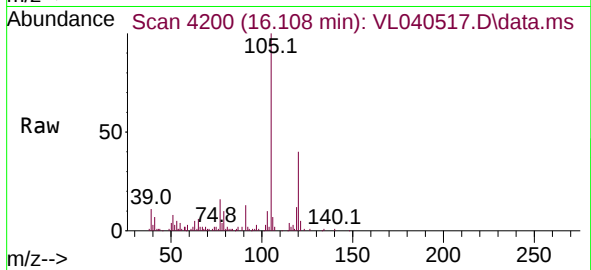
Tgt Ion:105 Resp: 28614  
Ion Ratio Lower Upper  
105 100  
120 50.2 38.2 57.2





#74  
1,2,4-Trimethylbenzene  
Concen: 0.481 ppbv  
RT: 16.108 min Scan# 41  
Delta R.T. -0.010 min  
Lab File: VL040517.D  
Acq: 10 Jul 2023 21:54

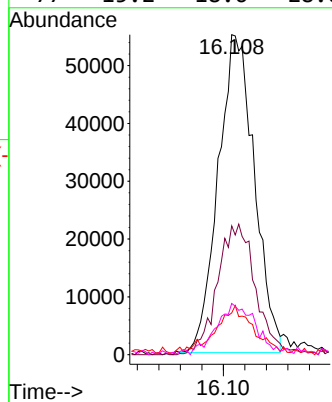
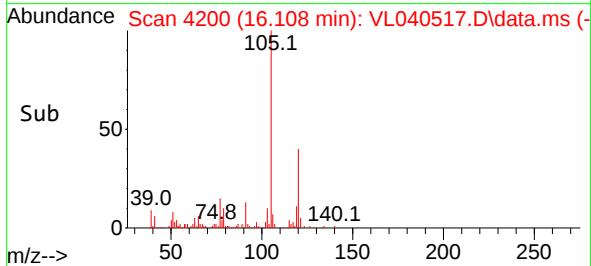
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP



Tgt Ion:105 Resp: 128179  
Ion Ratio Lower Upper  
105 100  
120 40.2 40.3 60.5  
91 12.1 46.8 70.2  
77 15.2 18.6 28.0

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 07/11/2023  
Supervised By :Mahesh Dadoda 07/11/2023



07/11/2023  
Supervised By :Mahesh  
Dadoda

07/11/2023