

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101722\  
 Data File : VL039733.D  
 Acq On : 17 Oct 2022 23:50  
 Operator : SY/AP  
 Sample : N5169-05DL 20X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV3DL

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/18/2022  
 Supervised By : Mahesh Dadoda 10/19/2022

Quant Time: Oct 18 05:31:36 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091922AIR.M

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

QLast Update : Tue Oct 18 05:23:57 2022

Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.227  | 49    | 1180489  | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 6.684  | 114   | 3065410  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 11.494 | 117   | 2690050  | 10.000   | ppbv   | 0.00     |
|                             |        |       |          |          |        |          |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.806 | 95    | 1932150  | 9.622    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 96.200%  |
|                             |        |       |          |          |        |          |
| Target Compounds            |        |       |          |          |        | Qvalue   |
| 9) Propene                  | 2.739  | 41    | 62646    | 0.979    | ppbv   | 91       |
| 10) Heptane                 | 7.613  | 43    | 23789m   | 0.159    | ppbv   |          |
| 13) Ethanol                 | 3.285  | 45    | 8586m    | 1.761    | ppbv   |          |
| 15) Acetone                 | 3.507  | 43    | 1503981  | 11.449   | ppbv   | 97       |
| 17) tert-Butyl alcohol      | 3.931  | 59    | 34780    | 0.295    | ppbv # | 90       |
| 19) Isopropyl Alcohol       | 3.626  | 45    | 23854m   | 0.356    | ppbv   |          |
| 34) 2-Butanone              | 4.832  | 43    | 148964   | 0.989    | ppbv   | 99       |
| 35) Carbon Tetrachloride    | 6.523  | 117   | 7083m    | 0.044    | ppbv   |          |
| 50) 4-Methyl-2-Pentanone    | 8.243  | 43    | 28789m   | 0.122    | ppbv   |          |
| 52) Tetrachloroethene       | 10.648 | 164   | 4555m    | 0.051    | ppbv   |          |
| 53) Toluene                 | 9.250  | 91    | 66496    | 0.255    | ppbv   | 96       |
| 59) m/p-Xylene              | 12.372 | 91    | 67315m   | 0.244    | ppbv   |          |
| 74) 1,2,4-Trimethylbenzene  | 16.137 | 105   | 55998    | 0.181    | ppbv # | 69       |
| -----                       |        |       |          |          |        |          |

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

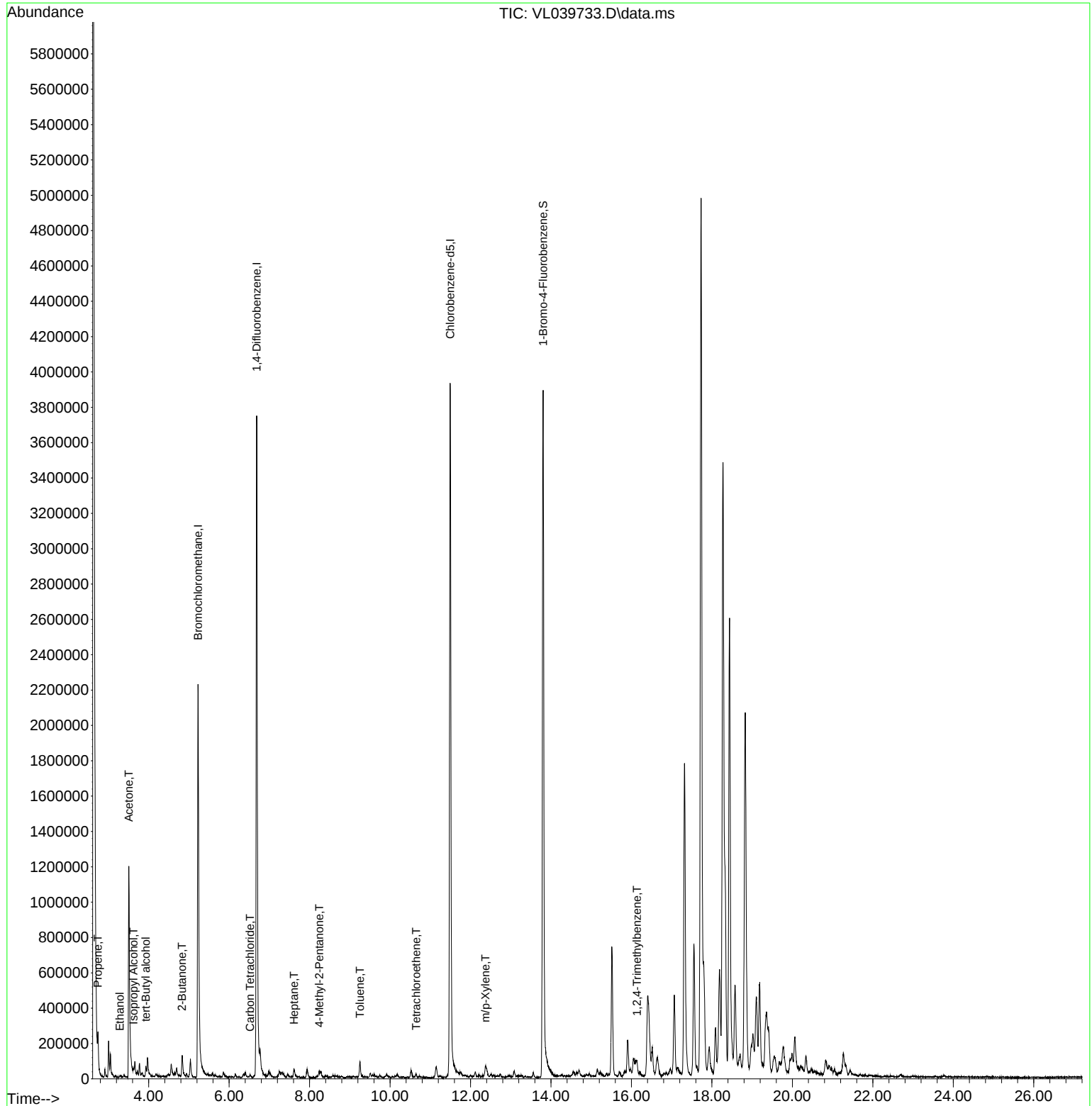
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101722\  
Data File : VL039733.D  
Acq On : 17 Oct 2022 23:50  
Operator : SY/AP  
Sample : N5169-05DL 20X  
Misc : 400mL/MSVOA\_L  
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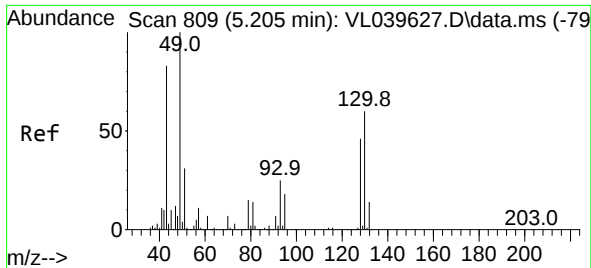
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV3DL

Quant Time: Oct 18 05:31:36 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091922AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Tue Oct 18 05:23:57 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

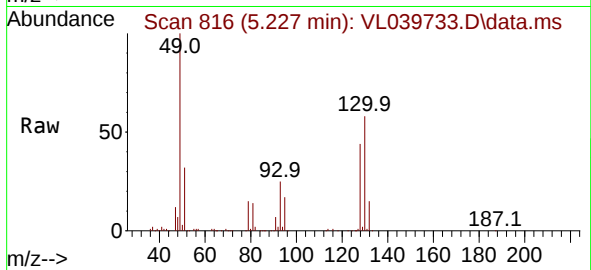
Reviewed By : Semsettin Yesilyurt 10/18/2022  
Supervised By : Mahesh Dadoda 10/19/2022





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.227 min Scan# 81  
Delta R.T. 0.003 min  
Lab File: VL039733.D  
Acq: 17 Oct 2022 23:50

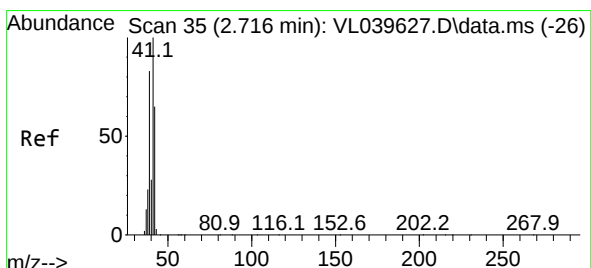
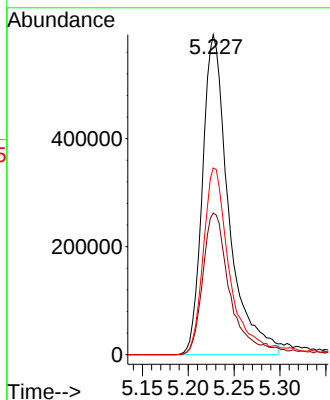
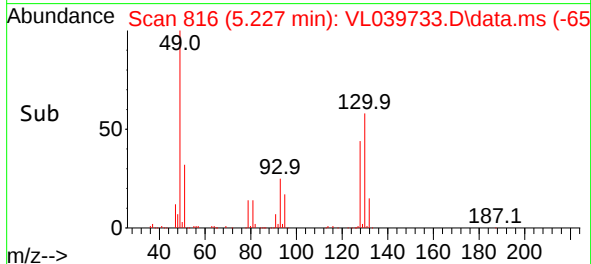
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV3DL



Tgt Ion: 49 Resp: 1180489  
Ion Ratio Lower Upper  
49 100  
128 48.8 26.7 80.0  
130 61.6 34.3 102.8

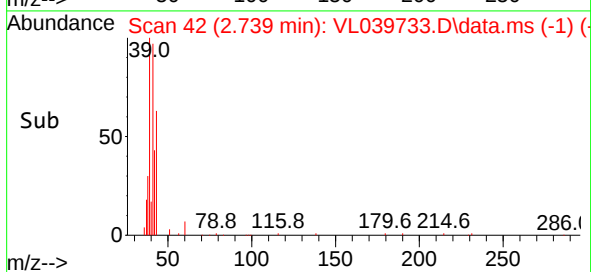
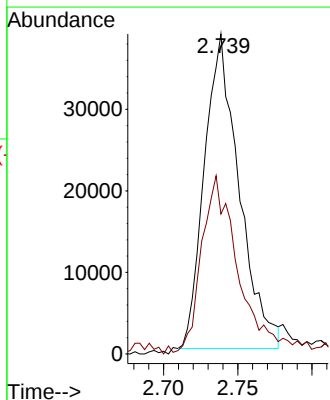
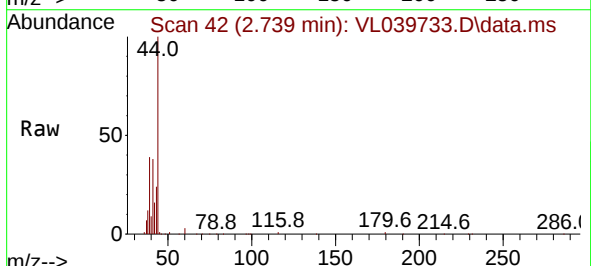
Manual Integrations  
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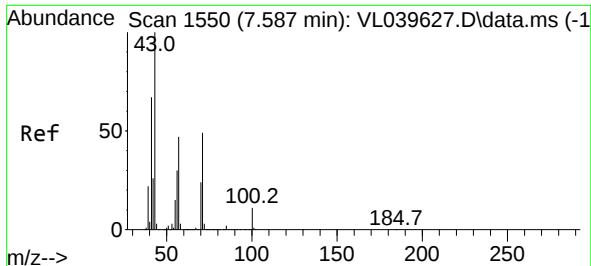
Reviewed By :Semsettin Yesilyurt 10/18/2022  
Supervised By :Mahesh Dadoda 10/19/2022



#9  
Propene  
Concen: 0.979 ppbv  
RT: 2.739 min Scan# 42  
Delta R.T. 0.006 min  
Lab File: VL039733.D  
Acq: 17 Oct 2022 23:50

Tgt Ion: 41 Resp: 62646  
Ion Ratio Lower Upper  
41 100  
42 61.9 55.2 82.8





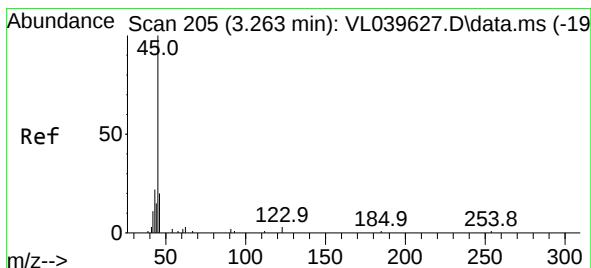
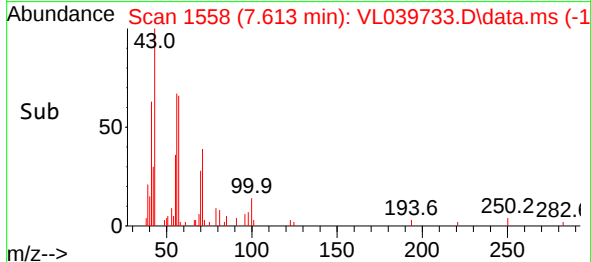
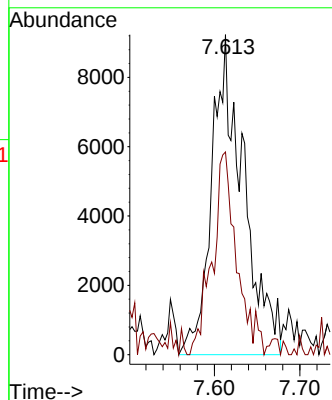
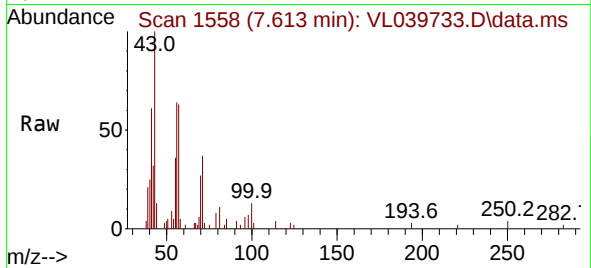
#10  
Heptane  
Concen: 0.159 ppbv m  
RT: 7.613 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VL039733.D  
Acq: 17 Oct 2022 23:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV3DL

Tgt Ion: 43 Resp: 23789  
Ion Ratio Lower Upper  
43 100  
57 50.9 40.5 60.7

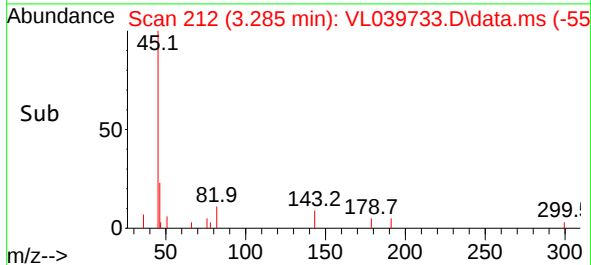
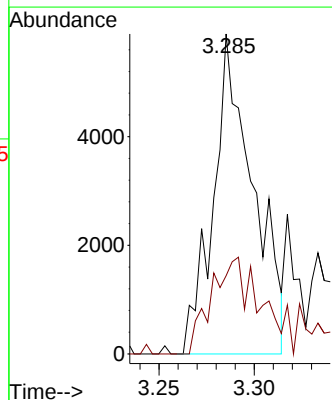
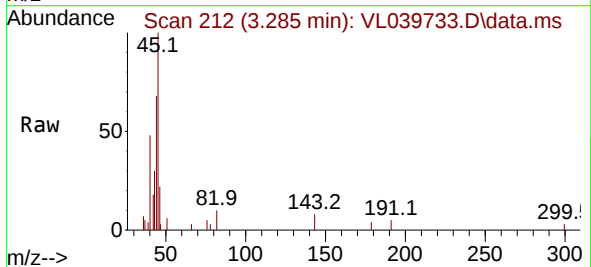
Manual Integrations  
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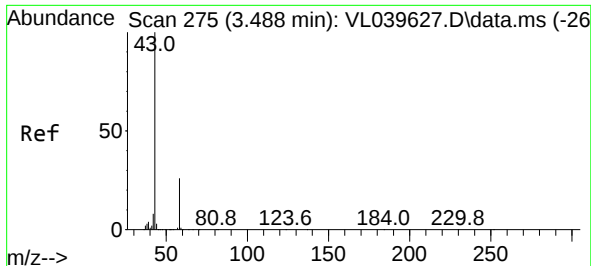
Reviewed By :Semsettin Yesilyurt 10/18/2022  
Supervised By :Mahesh Dadoda 10/19/2022



#13  
Ethanol  
Concen: 1.761 ppbv m  
RT: 3.285 min Scan# 212  
Delta R.T. 0.003 min  
Lab File: VL039733.D  
Acq: 17 Oct 2022 23:50

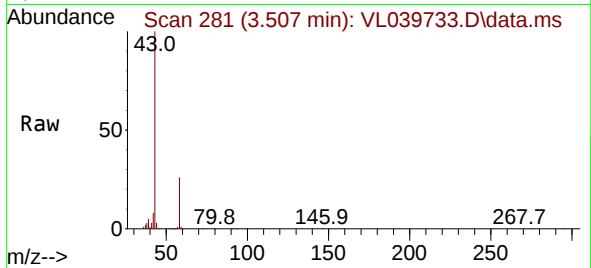
Tgt Ion: 45 Resp: 8586  
Ion Ratio Lower Upper  
45 100  
46 35.4 22.8 91.2





#15  
Acetone  
Concen: 11.449 ppbv  
RT: 3.507 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL039733.D  
Acq: 17 Oct 2022 23:50

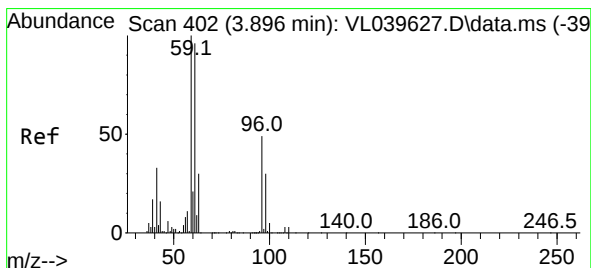
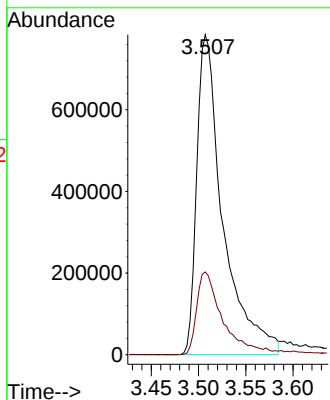
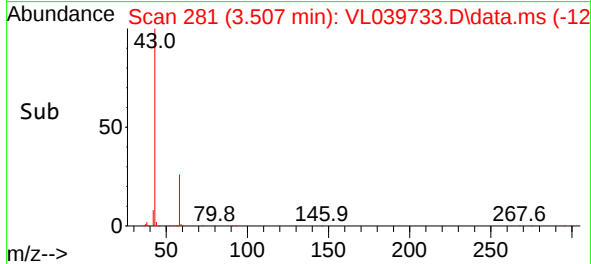
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV3DL



Tgt Ion: 43 Resp: 150398  
Ion Ratio Lower Upper  
43 100  
58 27.9 21.0 31.6

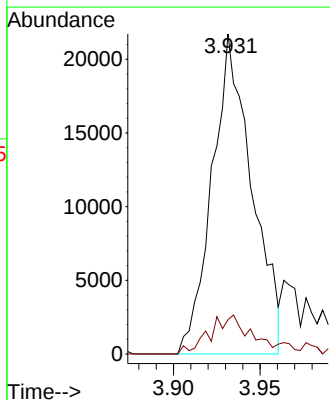
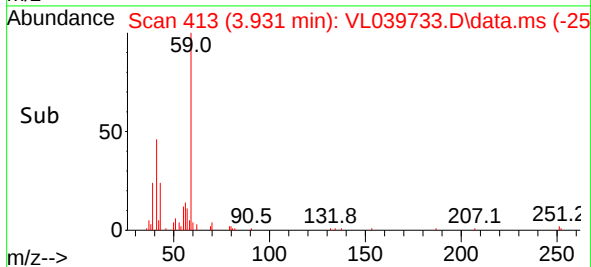
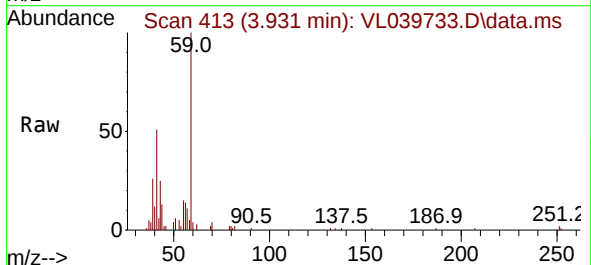
Manual Integrations  
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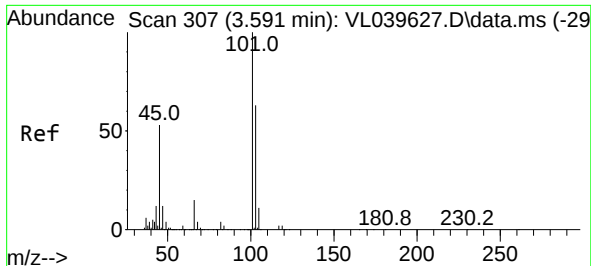
Reviewed By :Semsettin Yesilyurt 10/18/2022  
Supervised By :Mahesh Dadoda 10/19/2022



#17  
tert-Butyl alcohol  
Concen: 0.295 ppbv  
RT: 3.931 min Scan# 413  
Delta R.T. 0.016 min  
Lab File: VL039733.D  
Acq: 17 Oct 2022 23:50

Tgt Ion: 59 Resp: 34780  
Ion Ratio Lower Upper  
59 100  
57 14.7 8.7 13.1#





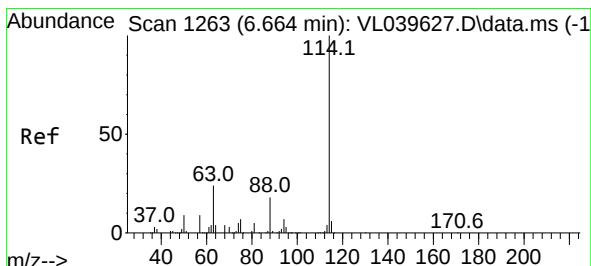
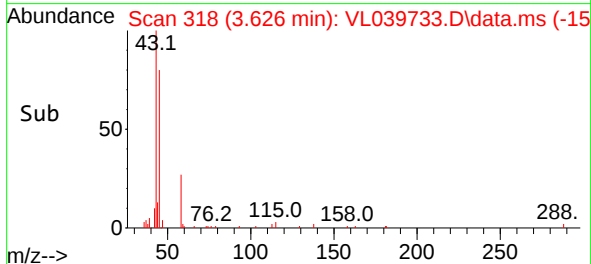
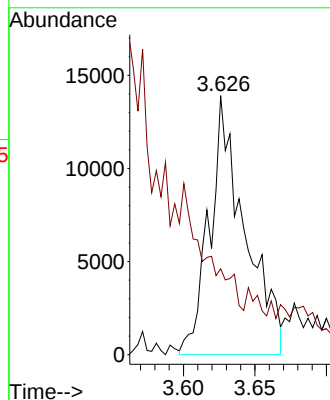
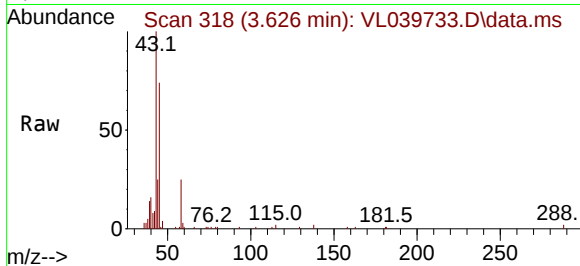
#19  
Isopropyl Alcohol  
Concen: 0.356 ppbv m  
RT: 3.626 min Scan# 318  
Delta R.T. 0.013 min  
Lab File: VL039733.D  
Acq: 17 Oct 2022 23:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV3DL

Tgt Ion: 45 Resp: 23854  
Ion Ratio Lower Upper  
45 100  
58 0.0 3.2 4.8

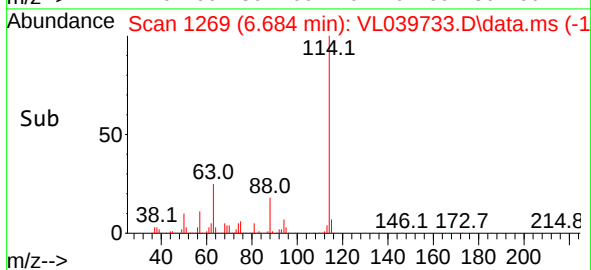
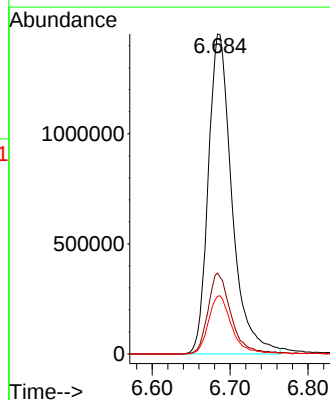
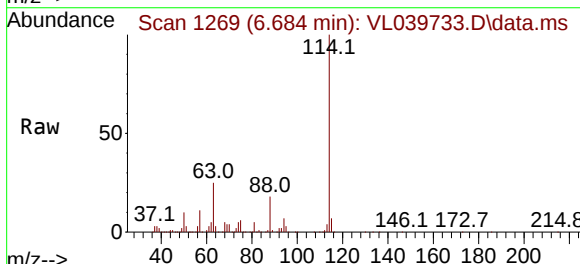
Manual Integrations  
APPROVED

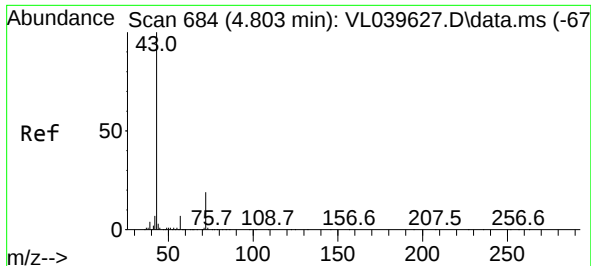
Reviewed By :Semsettin Yesilyurt 10/18/2022  
Supervised By :Mahesh Dadoda 10/19/2022



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.684 min Scan# 1269  
Delta R.T. -0.003 min  
Lab File: VL039733.D  
Acq: 17 Oct 2022 23:50

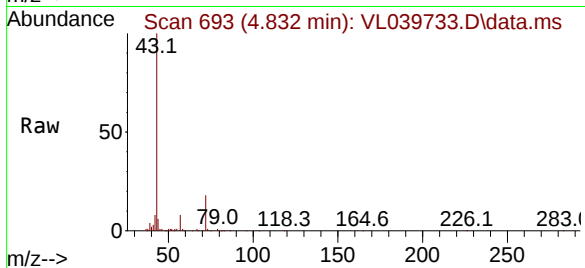
Tgt Ion:114 Resp: 3065410  
Ion Ratio Lower Upper  
114 100  
63 24.9 20.2 30.4  
88 18.0 14.5 21.7





#34  
2-Butanone  
Concen: 0.989 ppbv  
RT: 4.832 min Scan# 61  
Delta R.T. 0.010 min  
Lab File: VL039733.D  
Acq: 17 Oct 2022 23:50

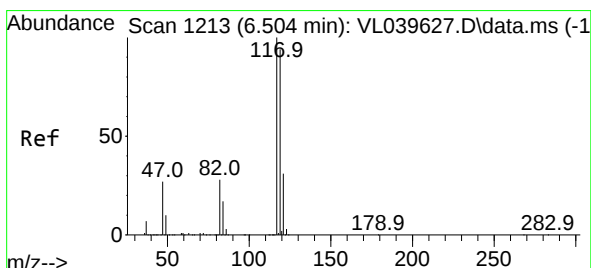
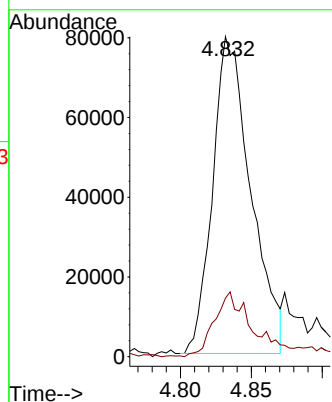
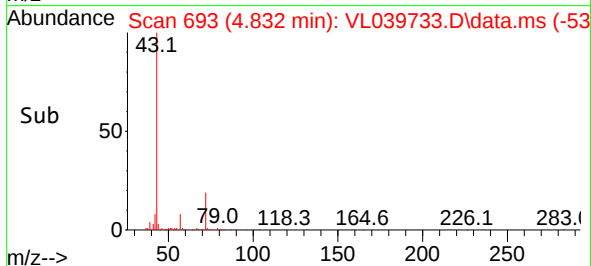
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV3DL



Tgt Ion: 43 Resp: 148964  
Ion Ratio Lower Upper  
43 100  
72 22.7 17.9 26.9

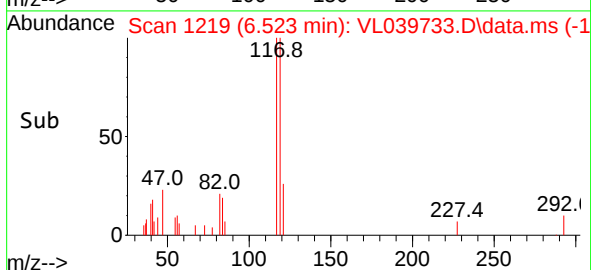
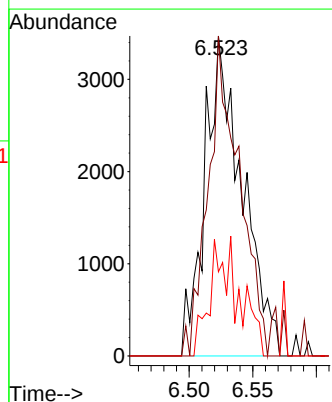
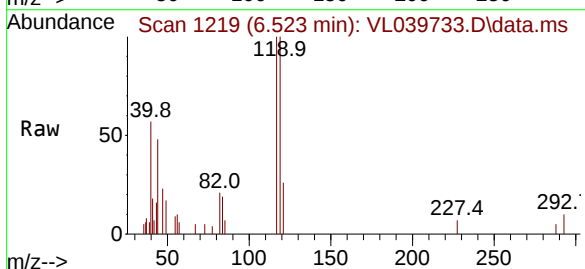
Manual Integrations  
APPROVED

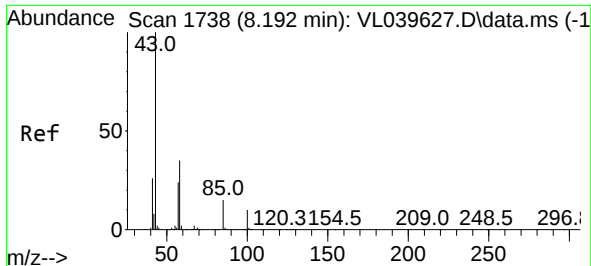
Reviewed By :Semsettin Yesilyurt 10/18/2022  
Supervised By :Mahesh Dadoda 10/19/2022



#35  
Carbon Tetrachloride  
Concen: 0.044 ppbv m  
RT: 6.523 min Scan# 1219  
Delta R.T. -0.003 min  
Lab File: VL039733.D  
Acq: 17 Oct 2022 23:50

Tgt Ion:117 Resp: 7083  
Ion Ratio Lower Upper  
117 100  
119 100.1 75.4 113.2  
121 26.3 24.2 36.2





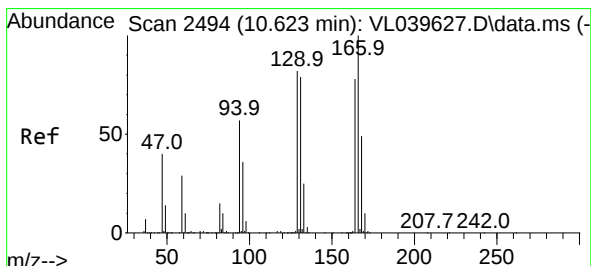
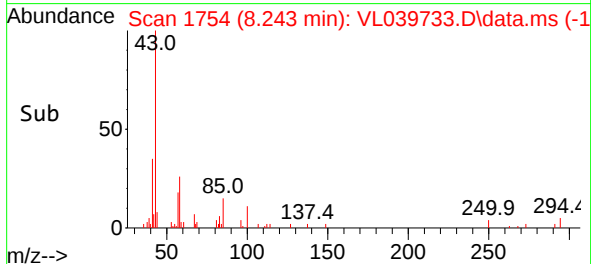
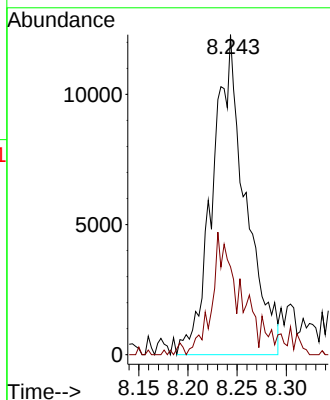
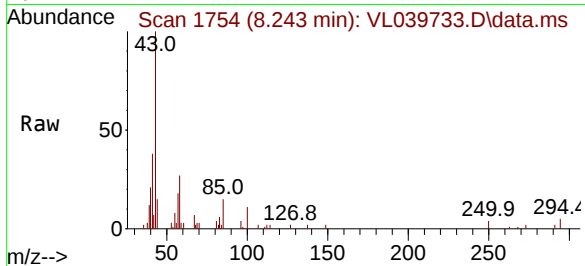
#50  
4-Methyl-2-Pentanone  
Concen: 0.122 ppbv m  
RT: 8.243 min Scan# 11  
Delta R.T. 0.029 min  
Lab File: VL039733.D  
Acq: 17 Oct 2022 23:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV3DL

Tgt Ion: 43 Resp: 28789  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.8 43.2

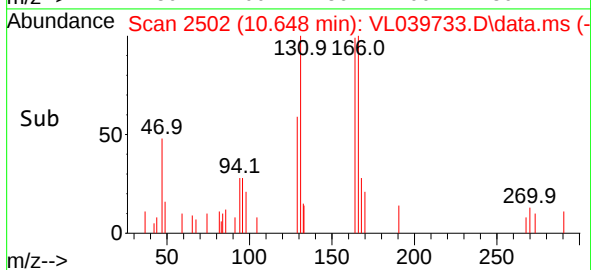
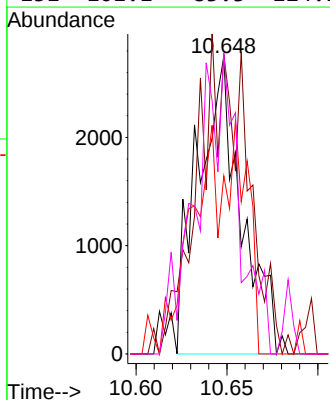
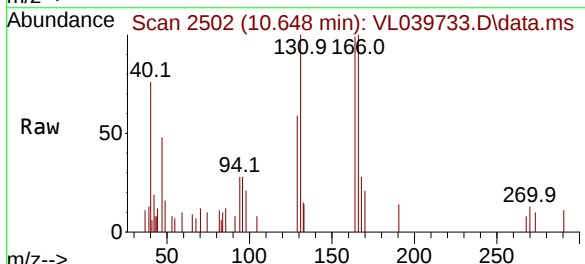
Manual Integrations  
APPROVED

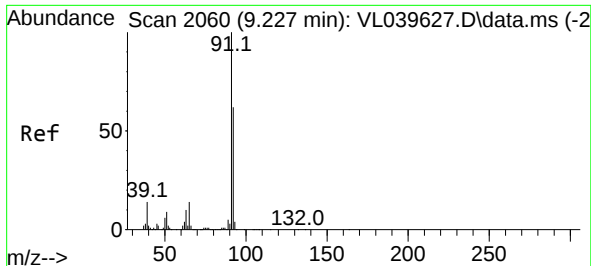
Reviewed By :Semsettin Yesilyurt 10/18/2022  
Supervised By :Mahesh Dadoda 10/19/2022



#52  
Tetrachloroethene  
Concen: 0.051 ppbv m  
RT: 10.648 min Scan# 2502  
Delta R.T. 0.003 min  
Lab File: VL039733.D  
Acq: 17 Oct 2022 23:50

Tgt Ion:164 Resp: 4555  
Ion Ratio Lower Upper  
164 100  
166 100.6 102.2 153.2#  
129 59.8 85.8 128.8#  
131 101.1 83.3 124.9





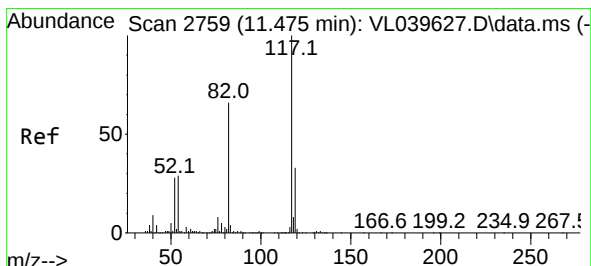
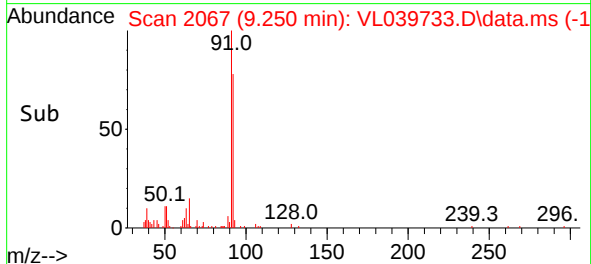
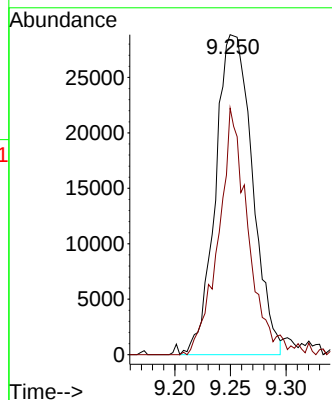
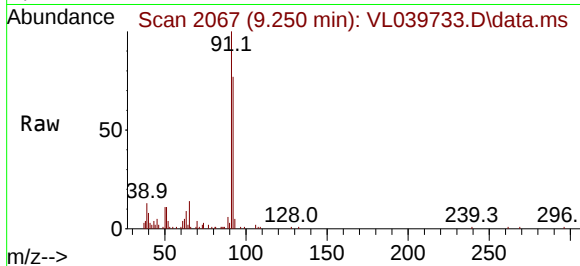
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Toluene  
Concen: 0.255 ppbv  
RT: 9.250 min Scan# 2060  
Delta R.T. 0.000 min  
Lab File: VL039733.D  
Acq: 17 Oct 2022 23:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV3DL

Tgt Ion: 91 Resp: 66490  
Ion Ratio Lower Upper  
91 100  
92 63.2 48.2 72.2

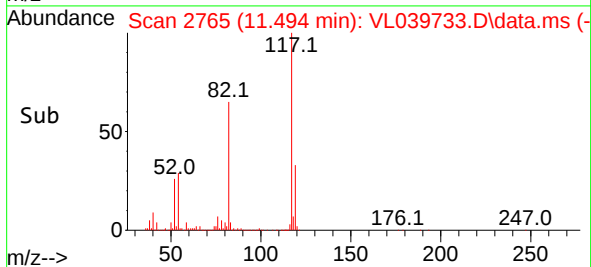
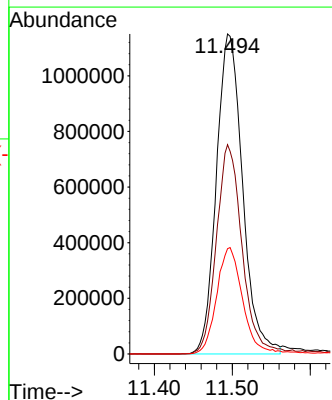
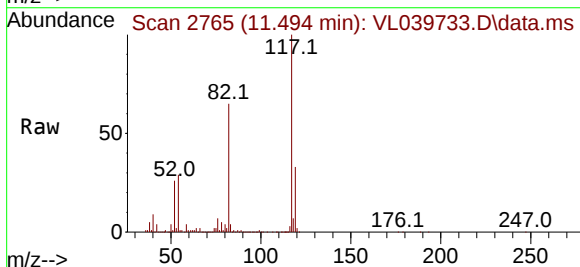
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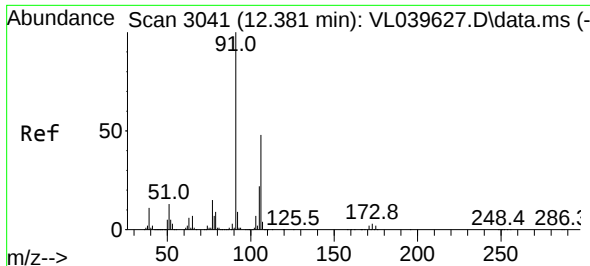
Reviewed By :Semsettin Yesilyurt 10/18/2022  
Supervised By :Mahesh Dadoda 10/19/2022



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.494 min Scan# 2765  
Delta R.T. 0.003 min  
Lab File: VL039733.D  
Acq: 17 Oct 2022 23:50

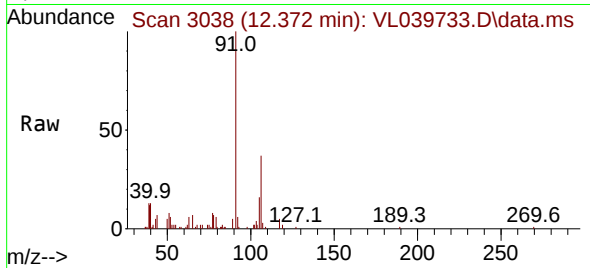
Tgt Ion:117 Resp: 2690050  
Ion Ratio Lower Upper  
117 100  
82 65.4 50.8 76.2  
119 33.2 24.1 36.1





#59  
m/p-Xylene  
Concen: 0.244 ppbv m  
RT: 12.372 min Scan# 3041  
Delta R.T. -0.029 min  
Lab File: VL039733.D  
Acq: 17 Oct 2022 23:50

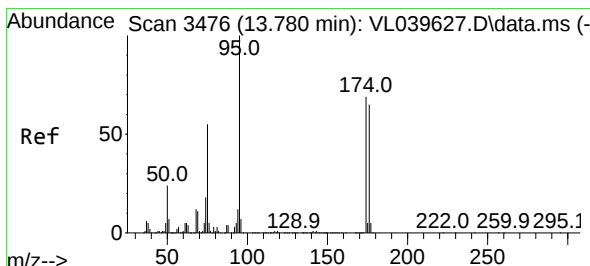
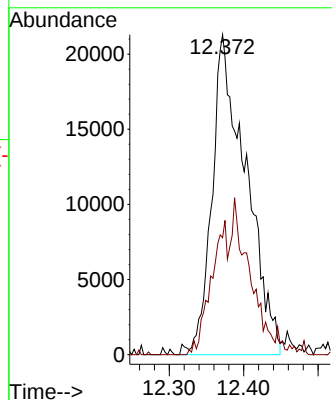
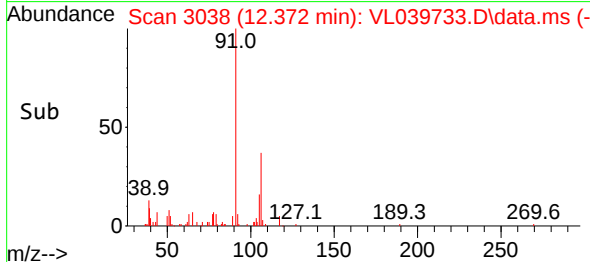
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV3DL



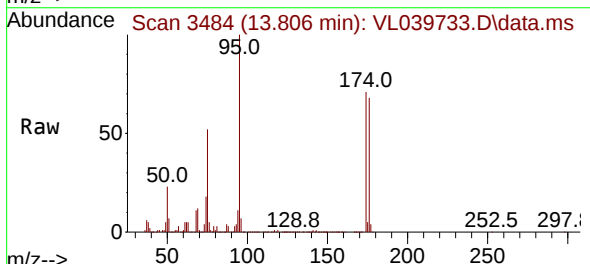
Tgt Ion: 91 Resp: 67315  
Ion Ratio Lower Upper  
91 100  
106 0.0 35.4 53.2

Manual Integrations  
APPROVED

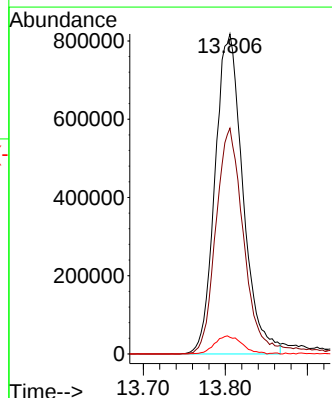
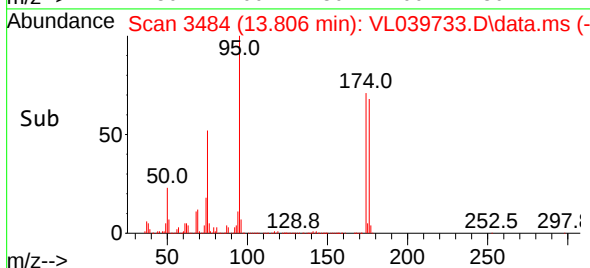
Reviewed By :Semsettin Yesilyurt 10/18/2022  
Supervised By :Mahesh Dadoda 10/19/2022

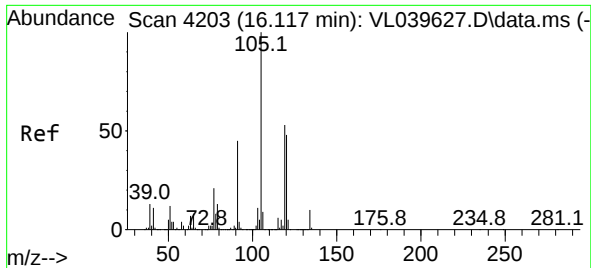


#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.622 ppbv  
RT: 13.806 min Scan# 3484  
Delta R.T. 0.006 min  
Lab File: VL039733.D  
Acq: 17 Oct 2022 23:50



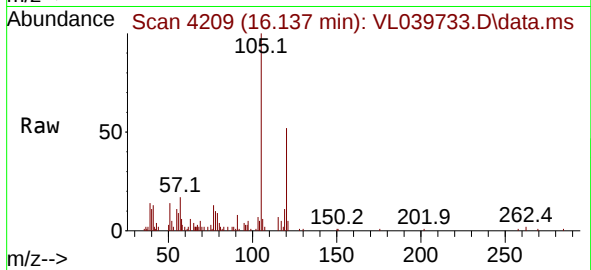
Tgt Ion: 95 Resp: 1932150  
Ion Ratio Lower Upper  
95 100  
174 73.6 55.9 83.9  
175 5.6 4.2 6.4





#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.181 ppbv  
 RT: 16.137 min Scan# 41  
 Delta R.T. 0.003 min  
 Lab File: VL039733.D  
 Acq: 17 Oct 2022 23:50

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV3DL



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 55998 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 52.9  | 39.5  | 59.3  |
| 91       | 5.9   | 39.2  | 58.8  |
| 77       | 12.1  | 17.2  | 25.8  |

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/18/2022  
 Supervised By :Mahesh Dadoda 10/19/2022

