

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL071922\  
 Data File : VL039483.D  
 Acq On : 19 Jul 2022 15:19  
 Operator : SY/AP  
 Sample : N3719-01 2X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SG-8

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/20/2022  
 Supervised By :Mahesh Dadoda 07/21/2022

Quant Time: Jul 20 05:40:15 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL062922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jul 6

QLast Update : Wed Jul 06 02:15:38 2022

Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.677  | 49    | 1119243  | 10.000   | ppbv   | 0.03     |
| 33) 1,4-Difluorobenzene     | 7.189  | 114   | 3199607  | 10.000   | ppbv   | 0.03     |
| 55) Chlorobenzene-d5        | 12.102 | 117   | 2933653  | 10.000   | ppbv   | 0.04     |
|                             |        |       |          |          |        |          |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 14.426 | 95    | 2241767  | 10.301   | ppbv   | 0.04     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 103.000% |
|                             |        |       |          |          |        |          |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 3.057  | 85    | 17540    | 0.109    | ppbv   | 95       |
| 4) Chloromethane            | 3.147  | 50    | 15352m   | 0.198    | ppbv   |          |
| 11) Trichlorofluoromethane  | 3.960  | 101   | 71017    | 0.395    | ppbv   | 99       |
| 13) Ethanol                 | 3.613  | 45    | 21951    | 5.900    | ppbv   | 95       |
| 15) Acetone                 | 3.858  | 43    | 1030266  | 7.781    | ppbv   | 96       |
| 20) Methylene Chloride      | 4.353  | 84    | 656592   | 12.440   | ppbv   | 98       |
| 26) Hexane                  | 5.700  | 57    | 642031   | 5.866    | ppbv # | 39       |
| 27) Carbon Disulfide        | 4.562  | 76    | 20246    | 0.153    | ppbv # | 59       |
| 29) Chloroform              | 5.761  | 83    | 151329   | 0.795    | ppbv   | 95       |
| 34) 2-Butanone              | 5.263  | 43    | 63247    | 0.393    | ppbv # | 82       |
| 52) Tetrachloroethene       | 11.237 | 164   | 147870   | 1.483    | ppbv   | 93       |
| 53) Toluene                 | 9.819  | 91    | 120390   | 0.421    | ppbv   | 95       |
| 58) Ethyl Benzene           | 12.725 | 91    | 172961   | 0.457    | ppbv   | 100      |
| 59) m/p-Xylene              | 12.979 | 91    | 699971   | 2.096    | ppbv   | 95       |
| 60) o-Xylene                | 13.706 | 91    | 343421   | 1.086    | ppbv   | 99       |
| 72) 4-Ethyltoluene          | 15.847 | 105   | 247149   | 0.665    | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene  | 16.011 | 105   | 360235   | 1.055    | ppbv   | 91       |
| 74) 1,2,4-Trimethylbenzene  | 16.773 | 105   | 1104688  | 2.924    | ppbv # | 69       |
| -----                       |        |       |          |          |        |          |

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

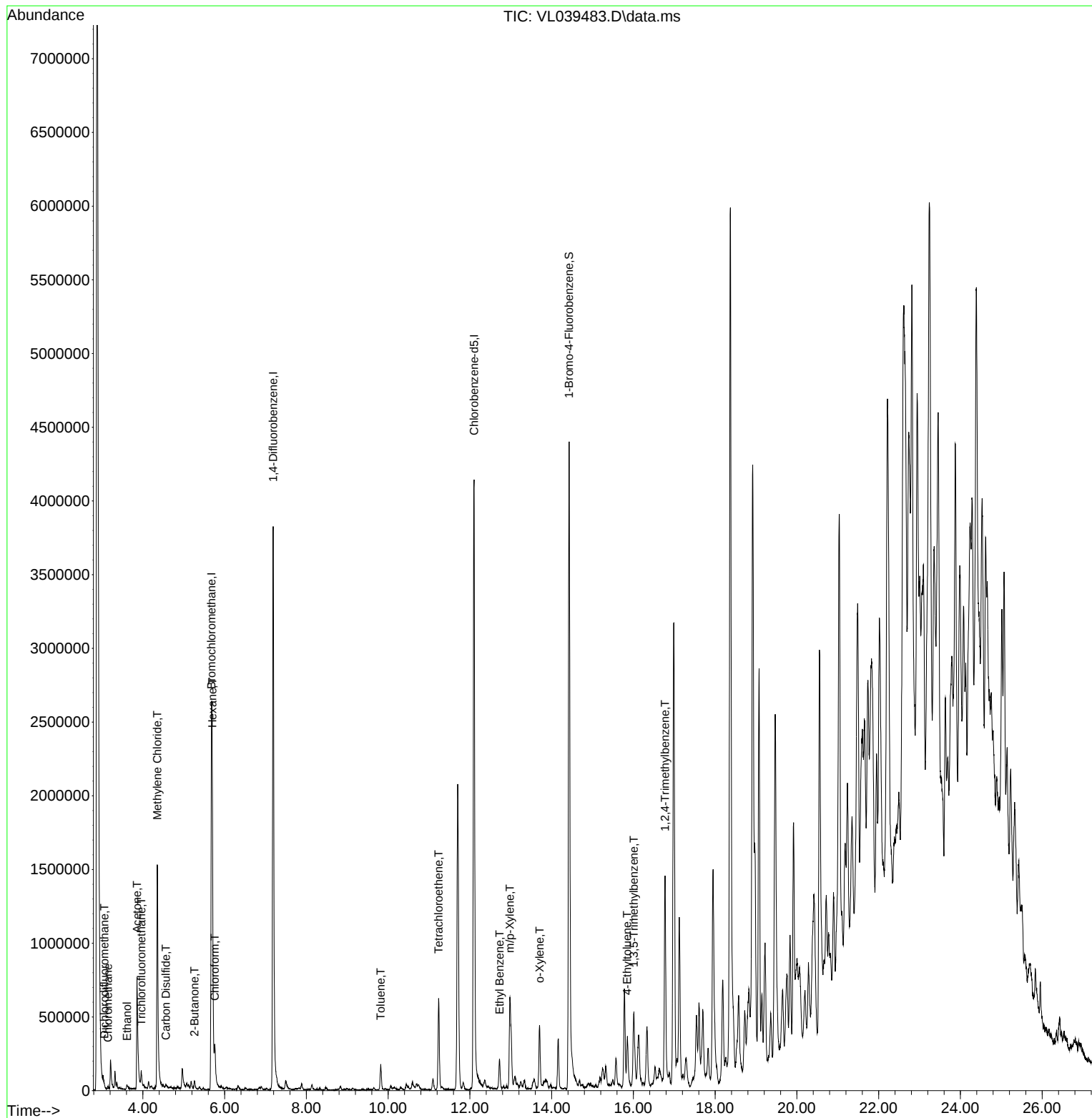
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL071922\  
Data File : VL039483.D  
Acq On : 19 Jul 2022 15:19  
Operator : SY/AP  
Sample : N3719-01 2X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

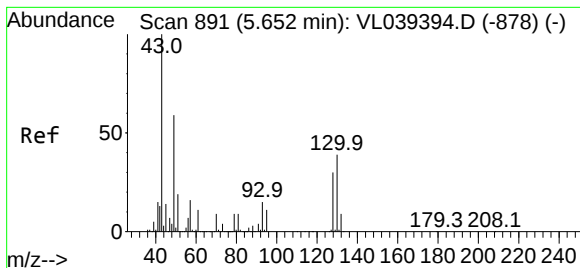
Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-8

Quant Time: Jul 20 05:40:15 2022  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL062922AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jul  
QLast Update : Wed Jul 06 02:15:38 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

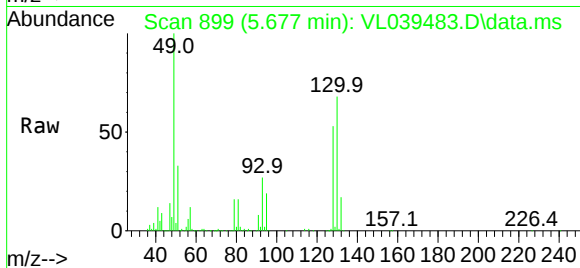
Reviewed By :Semsettin Yesilyurt 07/20/2022  
Supervised By :Mahesh Dadoda 07/21/2022





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.677 min Scan# 84  
Delta R.T. 0.026 min  
Lab File: VL039483.D  
Acq: 19 Jul 2022 15:19

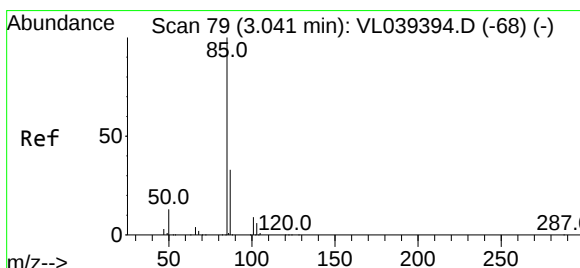
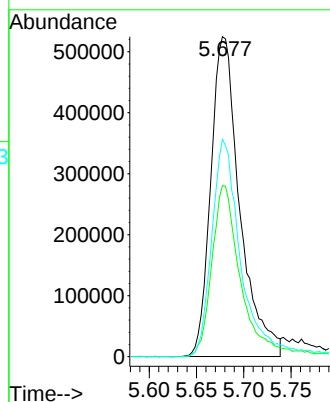
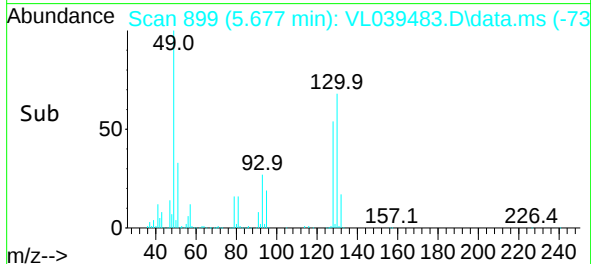
Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-8



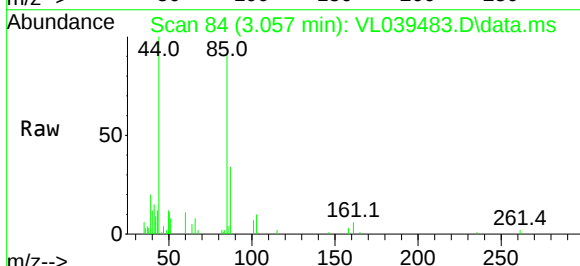
Tgt Ion: 49 Resp: 111924  
Ion Ratio Lower Upper  
49 100  
128 55.3 26.7 80.0  
130 69.9 34.3 102.8

Manual Integrations  
APPROVED

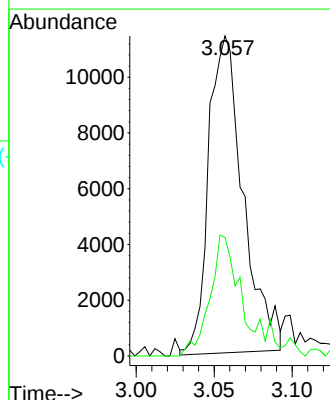
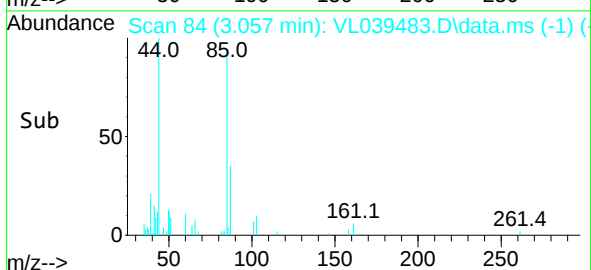
Reviewed By :Semsettin Yesilyurt 07/20/2022  
Supervised By :Mahesh Dadoda 07/21/2022

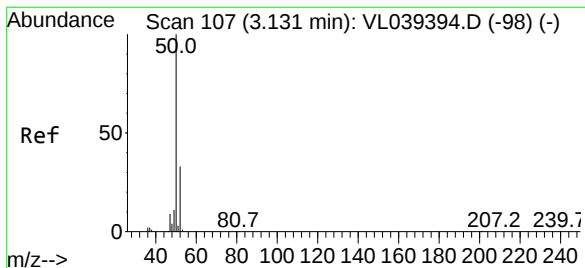


#2  
Dichlorodifluoromethane  
Concen: 0.109 ppbv  
RT: 3.057 min Scan# 84  
Delta R.T. 0.016 min  
Lab File: VL039483.D  
Acq: 19 Jul 2022 15:19



Tgt Ion: 85 Resp: 17540  
Ion Ratio Lower Upper  
85 100  
87 36.2 26.7 40.1





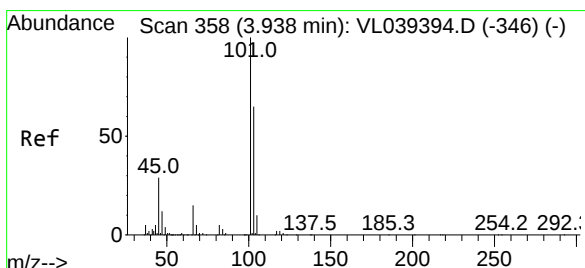
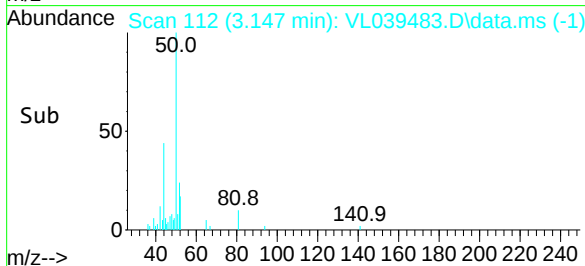
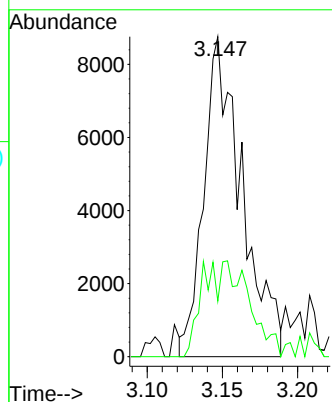
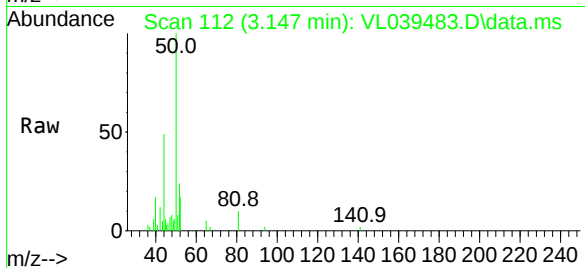
#4  
Chloromethane  
Concen: 0.198 ppbv m  
RT: 3.147 min Scan# 11  
Delta R.T. 0.016 min  
Lab File: VL039483.D  
Acq: 19 Jul 2022 15:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-8

Tgt Ion: 50 Resp: 1535  
Ion Ratio Lower Upper  
50 100  
52 17.4 26.5 39.7

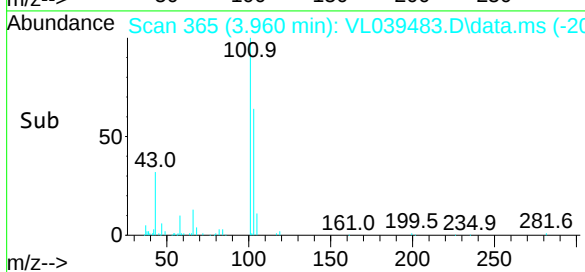
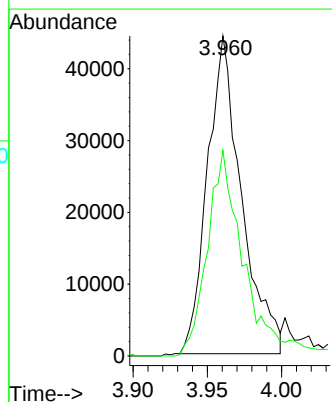
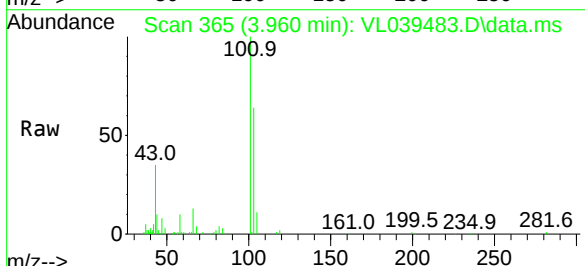
Manual Integrations  
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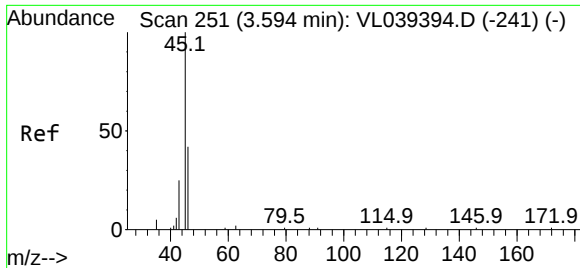
Reviewed By :Semsettin Yesilyurt 07/20/2022  
Supervised By :Mahesh Dadoda 07/21/2022



#11  
Trichlorofluoromethane  
Concen: 0.395 ppbv  
RT: 3.960 min Scan# 365  
Delta R.T. 0.022 min  
Lab File: VL039483.D  
Acq: 19 Jul 2022 15:19

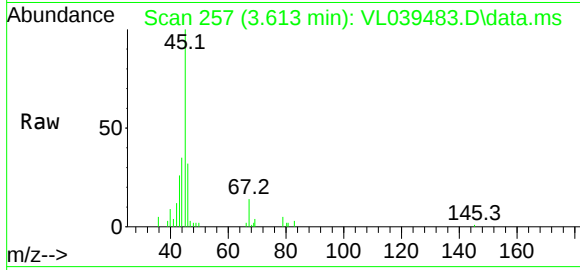
Tgt Ion:101 Resp: 71017  
Ion Ratio Lower Upper  
101 100  
103 64.3 51.8 77.8





#13  
Ethanol  
Concen: 5.900 ppbv  
RT: 3.613 min Scan# 2195  
Delta R.T. 0.019 min  
Lab File: VL039483.D  
Acq: 19 Jul 2022 15:19

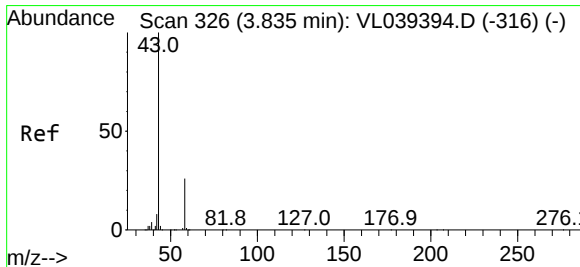
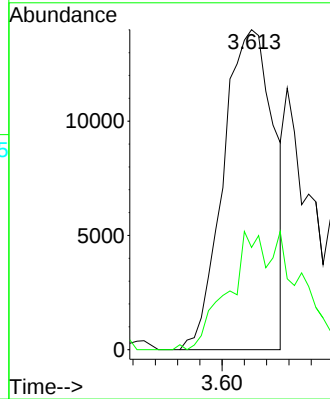
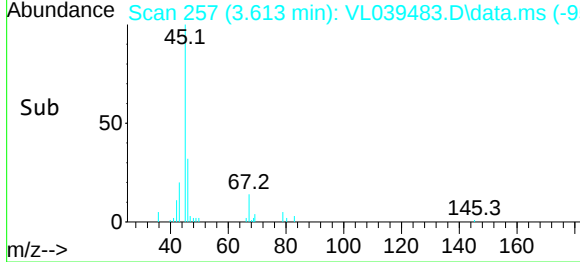
Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-8



Tgt Ion: 45 Resp: 2195  
Ion Ratio Lower Upper  
45 100  
46 60.8 22.8 91.2

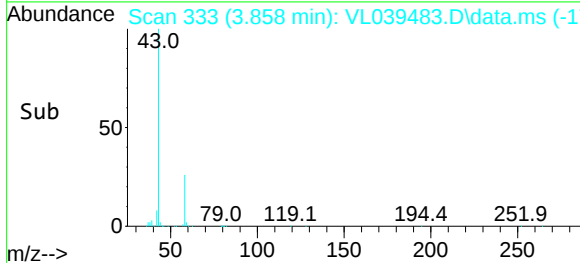
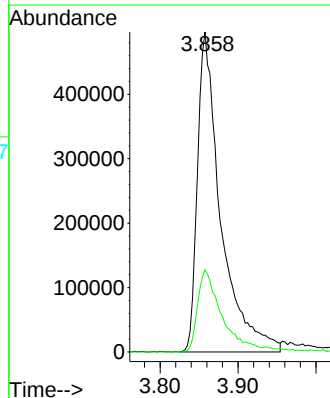
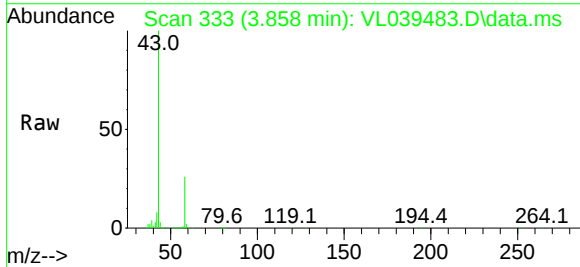
Manual Integrations  
APPROVED

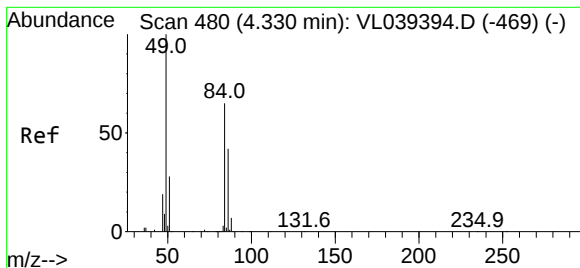
Reviewed By :Semsettin Yesilyurt 07/20/2022  
Supervised By :Mahesh Dadoda 07/21/2022



#15  
Acetone  
Concen: 7.781 ppbv  
RT: 3.858 min Scan# 333  
Delta R.T. 0.022 min  
Lab File: VL039483.D  
Acq: 19 Jul 2022 15:19

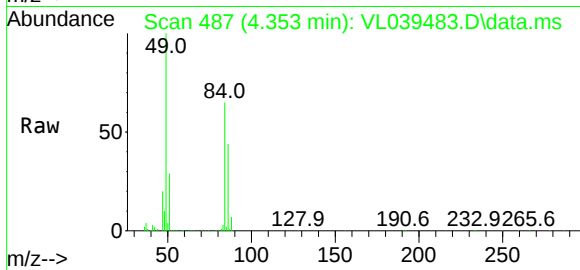
Tgt Ion: 43 Resp: 1030266  
Ion Ratio Lower Upper  
43 100  
58 28.1 21.0 31.6





#20  
Methylene Chloride  
Concen: 12.440 ppbv  
RT: 4.353 min Scan# 41  
Delta R.T. 0.022 min  
Lab File: VL039483.D  
Acq: 19 Jul 2022 15:19

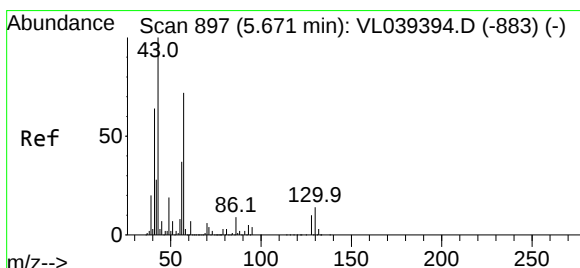
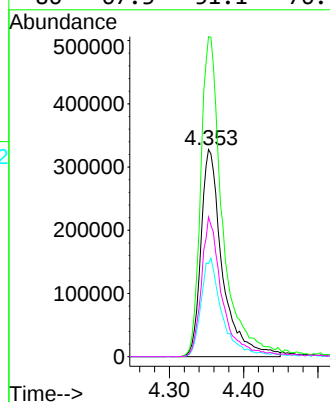
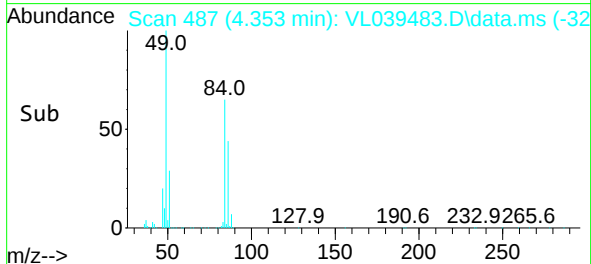
Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-8



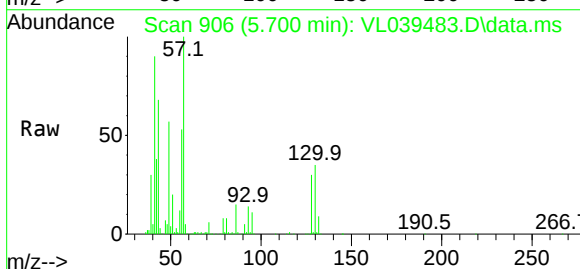
Tgt Ion: 84 Resp: 656592  
Ion Ratio Lower Upper  
84 100  
49 154.3 123.1 184.7  
51 44.9 34.4 51.6  
86 67.3 51.1 76.7

Manual Integrations  
APPROVED

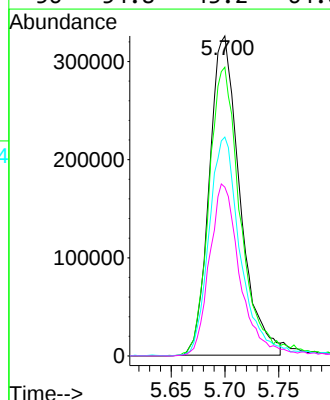
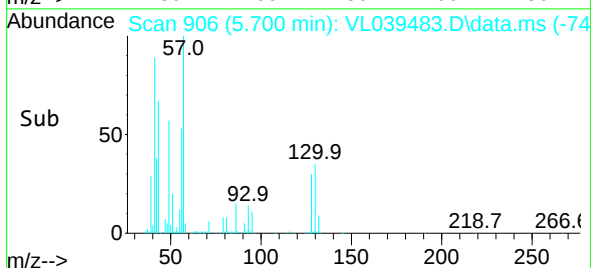
Reviewed By :Semsettin Yesilyurt 07/20/2022  
Supervised By :Mahesh Dadoda 07/21/2022

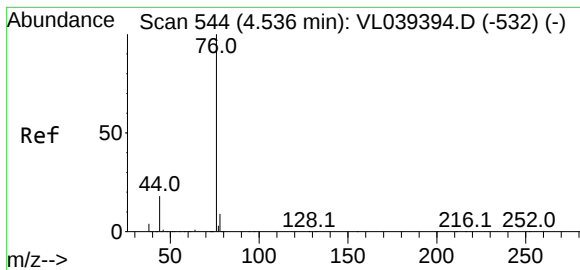


#26  
Hexane  
Concen: 5.866 ppbv  
RT: 5.700 min Scan# 906  
Delta R.T. 0.029 min  
Lab File: VL039483.D  
Acq: 19 Jul 2022 15:19



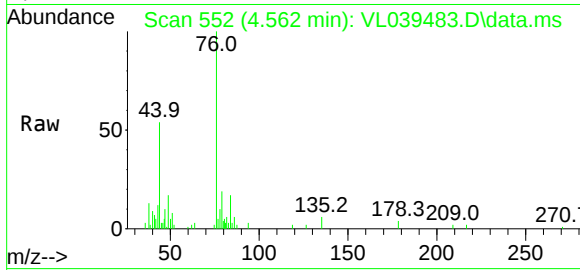
Tgt Ion: 57 Resp: 642031  
Ion Ratio Lower Upper  
57 100  
41 95.8 76.9 115.3  
43 71.9 191.0 286.6#  
56 54.8 43.2 64.8





#27  
Carbon Disulfide  
Concen: 0.153 ppbv  
RT: 4.562 min Scan# 511  
Delta R.T. 0.026 min  
Lab File: VL039483.D  
Acq: 19 Jul 2022 15:19

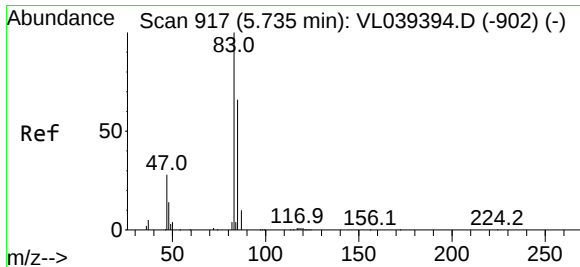
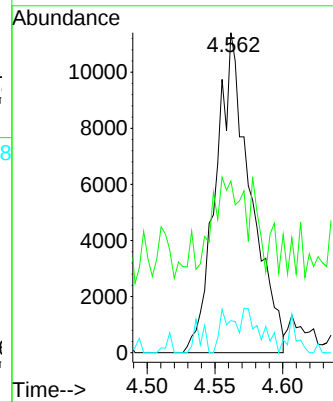
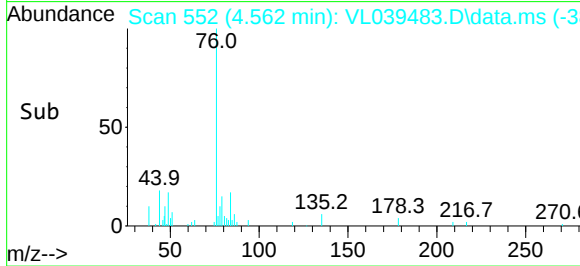
Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-8



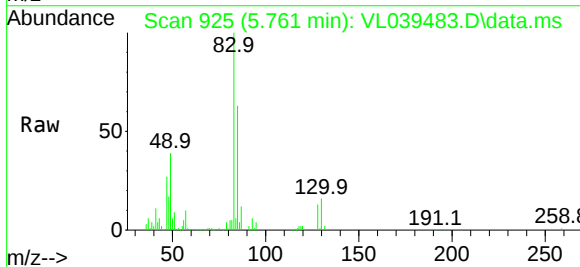
Tgt Ion: 76 Resp: 20240  
Ion Ratio Lower Upper  
76 100  
44 39.6 14.6 21.8  
78 19.7 7.8 11.6

Manual Integrations  
APPROVED

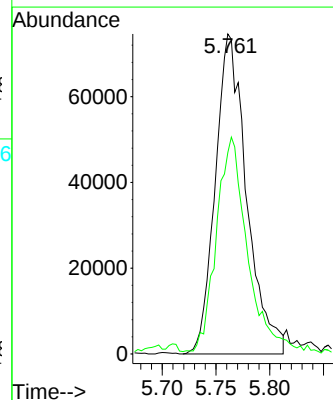
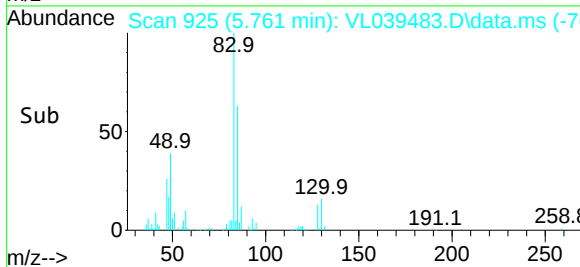
Reviewed By :Semsettin Yesilyurt 07/20/2022  
Supervised By :Mahesh Dadoda 07/21/2022

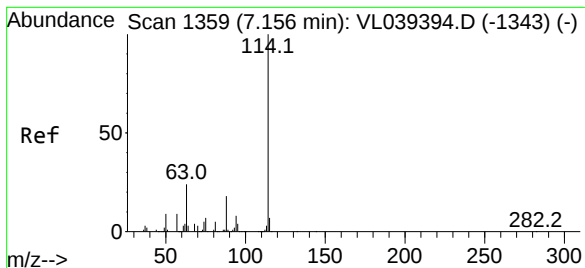


#29  
Chloroform  
Concen: 0.795 ppbv  
RT: 5.761 min Scan# 925  
Delta R.T. 0.026 min  
Lab File: VL039483.D  
Acq: 19 Jul 2022 15:19



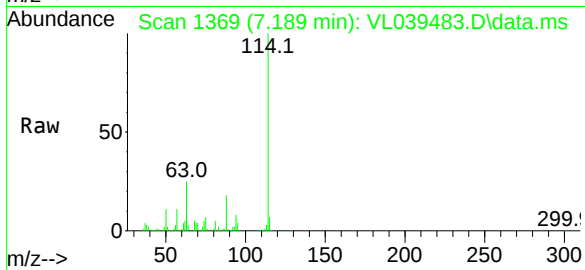
Tgt Ion: 83 Resp: 151329  
Ion Ratio Lower Upper  
83 100  
85 62.2 52.8 79.2





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.189 min Scan# 114  
Delta R.T. 0.032 min  
Lab File: VL039483.D  
Acq: 19 Jul 2022 15:19

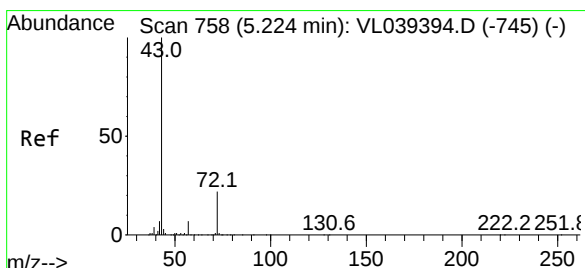
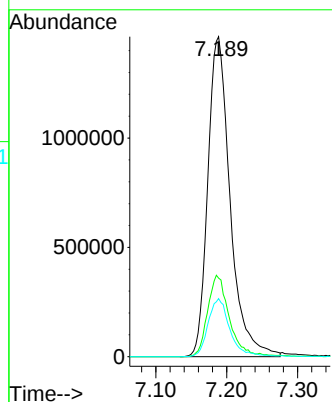
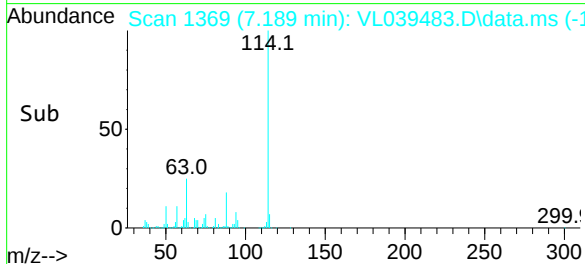
Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-8



Tgt Ion:114 Resp: 319960  
Ion Ratio Lower Upper  
114 100  
63 25.0 20.2 30.4  
88 17.9 14.5 21.7

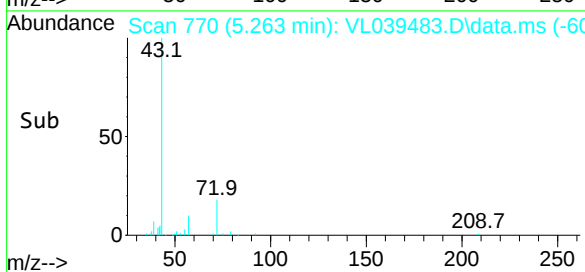
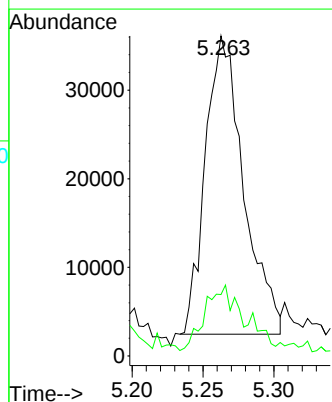
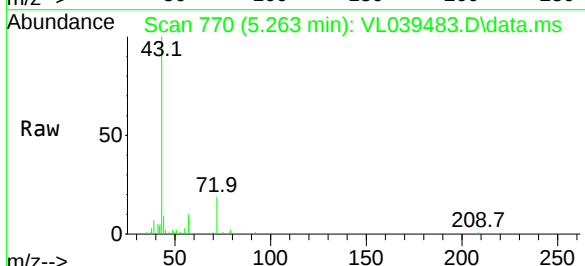
Manual Integrations  
APPROVED

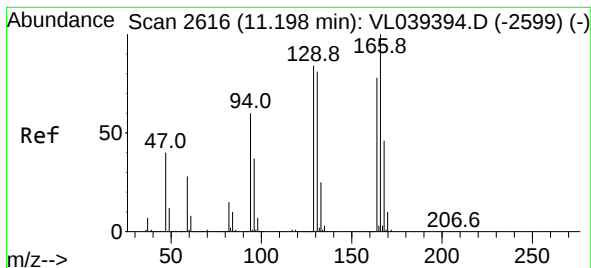
Reviewed By :Semsettin Yesilyurt 07/20/2022  
Supervised By :Mahesh Dadoda 07/21/2022



#34  
2-Butanone  
Concen: 0.393 ppbv  
RT: 5.263 min Scan# 770  
Delta R.T. 0.039 min  
Lab File: VL039483.D  
Acq: 19 Jul 2022 15:19

Tgt Ion: 43 Resp: 63247  
Ion Ratio Lower Upper  
43 100  
72 31.3 17.9 26.9





#52

Tetrachloroethene

Concen: 1.483 ppbv

RT: 11.237 min Scan# 2187

Delta R.T. 0.039 min

Lab File: VL039483.D

Acq: 19 Jul 2022 15:19

Instrument :

MSVOA\_L

ClientSampleId :

SG-8

Tgt Ion:164 Resp: 147870

Ion Ratio Lower Upper

164 100

166 119.1 102.2 153.2

129 98.3 85.8 128.8

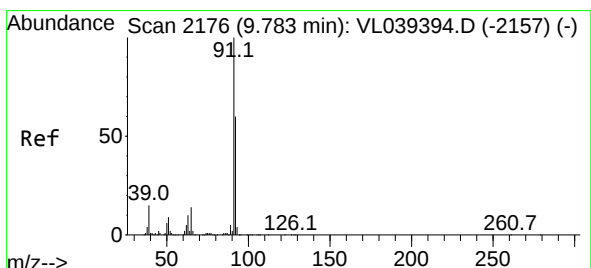
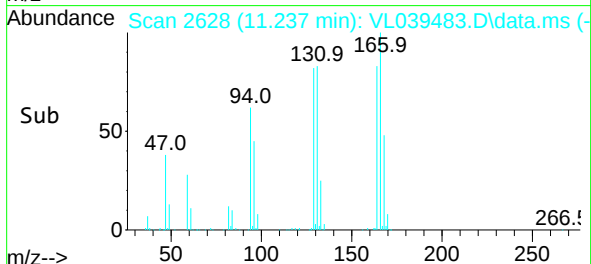
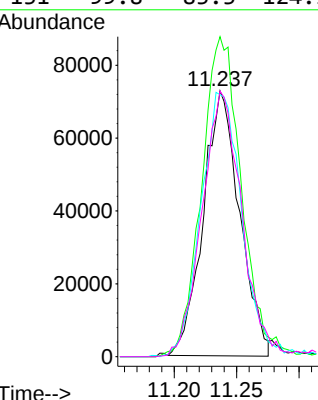
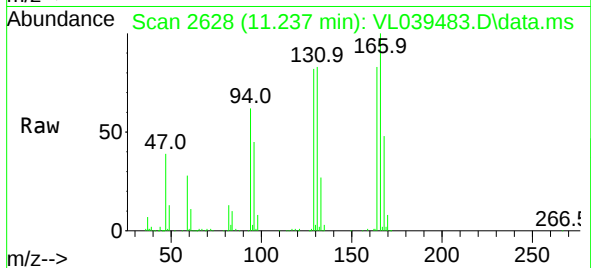
131 99.8 83.3 124.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/20/2022

Supervised By :Mahesh Dadoda 07/21/2022



#53

Toluene

Concen: 0.421 ppbv

RT: 9.819 min Scan# 2187

Delta R.T. 0.035 min

Lab File: VL039483.D

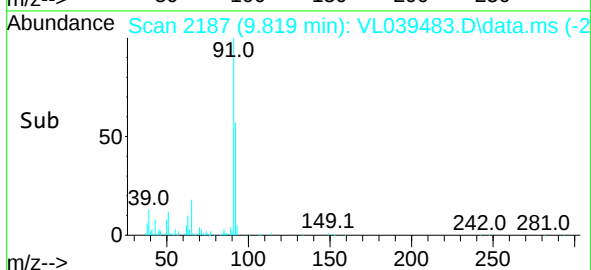
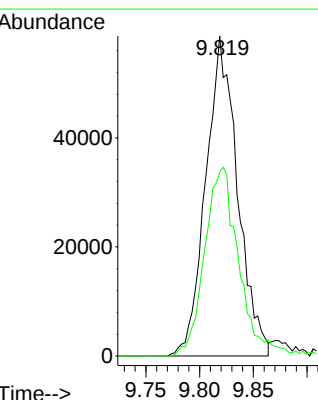
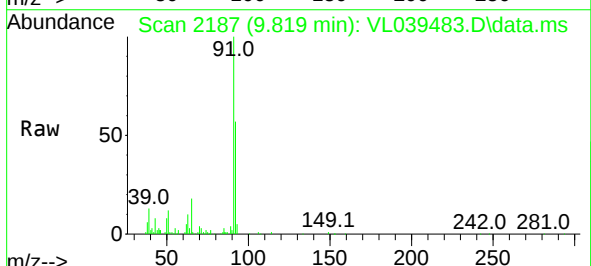
Acq: 19 Jul 2022 15:19

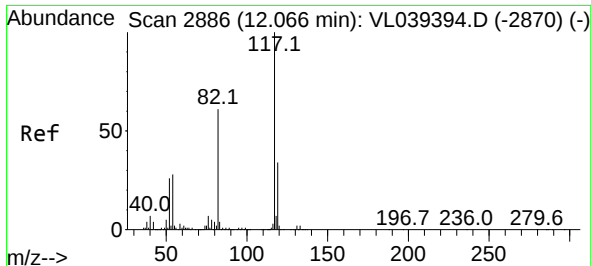
Tgt Ion: 91 Resp: 120390

Ion Ratio Lower Upper

91 100

92 63.9 48.2 72.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.102 min Scan# 2886

Delta R.T. 0.035 min

Lab File: VL039483.D

Acq: 19 Jul 2022 15:19

Instrument :

MSVOA\_L

ClientSampleId :

SG-8

Tgt Ion:117 Resp: 293365

Ion Ratio Lower Upper

117 100

82 64.3 50.8 76.2

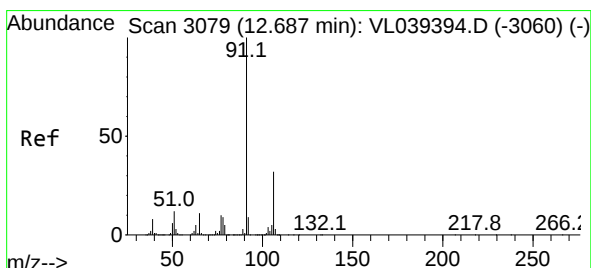
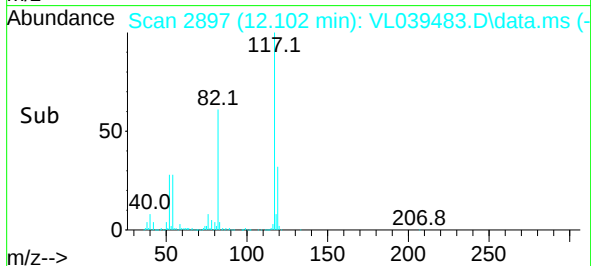
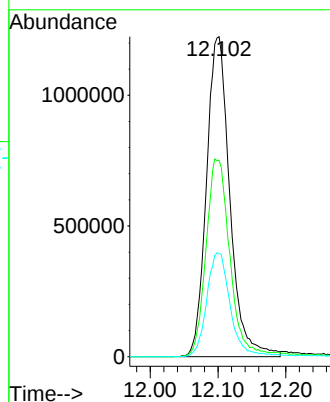
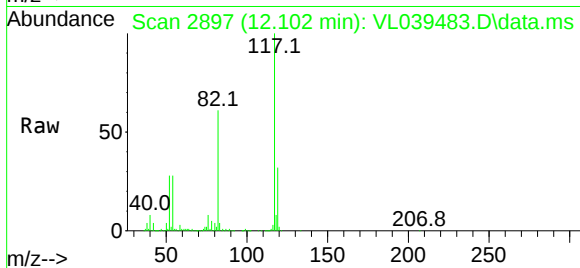
119 33.2 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/20/2022

Supervised By :Mahesh Dadoda 07/21/2022



#58

Ethyl Benzene

Concen: 0.457 ppbv

RT: 12.725 min Scan# 3091

Delta R.T. 0.039 min

Lab File: VL039483.D

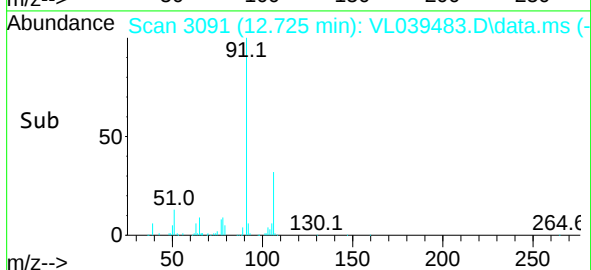
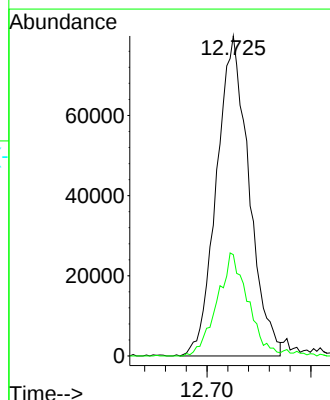
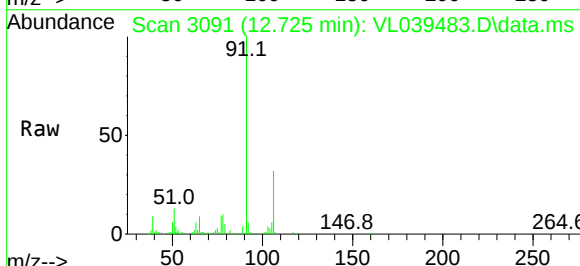
Acq: 19 Jul 2022 15:19

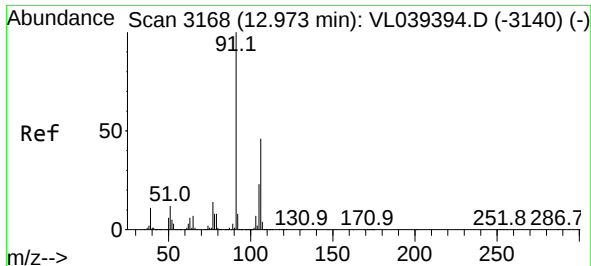
Tgt Ion: 91 Resp: 172961

Ion Ratio Lower Upper

91 100

106 31.6 25.4 38.0





#59

m/p-Xylene

Concen: 2.096 ppbv

RT: 12.979 min Scan# 3168

Delta R.T. 0.006 min

Lab File: VL039483.D

Acq: 19 Jul 2022 15:19

Instrument :

MSVOA\_L

ClientSampleId :

SG-8

Tgt Ion: 91 Resp: 69997

Ion Ratio Lower Upper

91 100

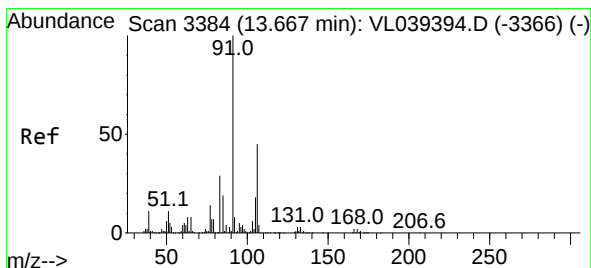
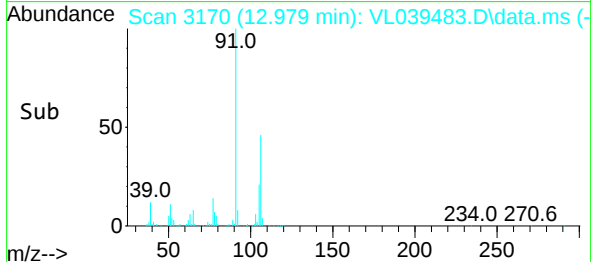
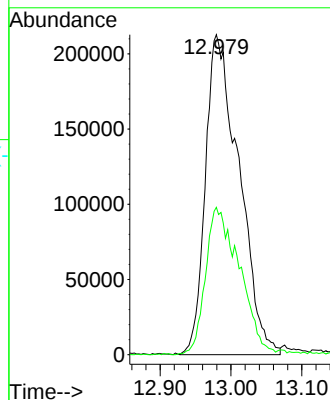
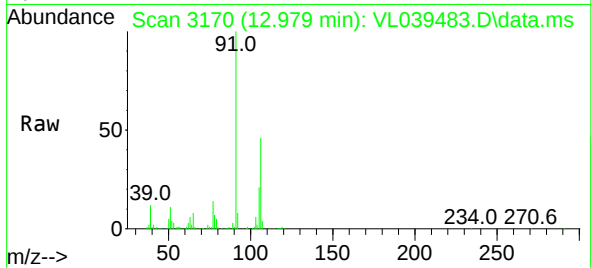
106 47.2 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/20/2022

Supervised By :Mahesh Dadoda 07/21/2022



#60

o-Xylene

Concen: 1.086 ppbv

RT: 13.706 min Scan# 3396

Delta R.T. 0.039 min

Lab File: VL039483.D

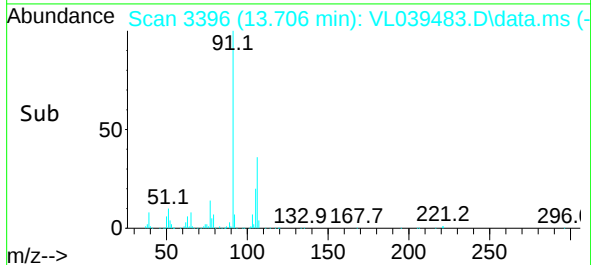
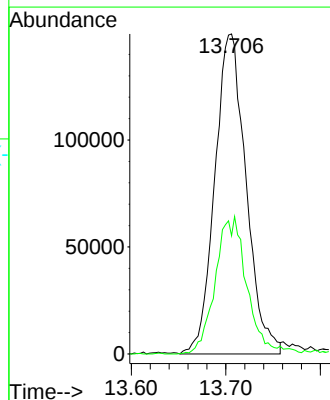
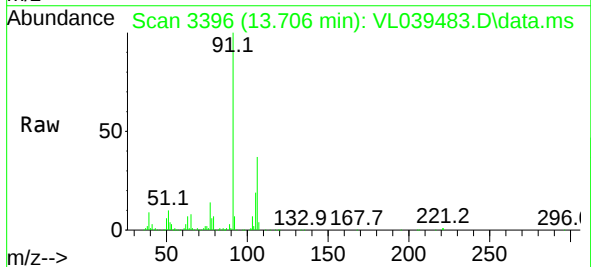
Acq: 19 Jul 2022 15:19

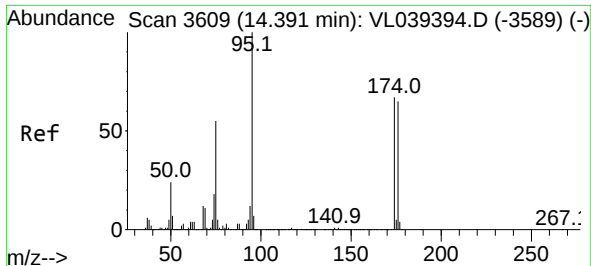
Tgt Ion: 91 Resp: 343421

Ion Ratio Lower Upper

91 100

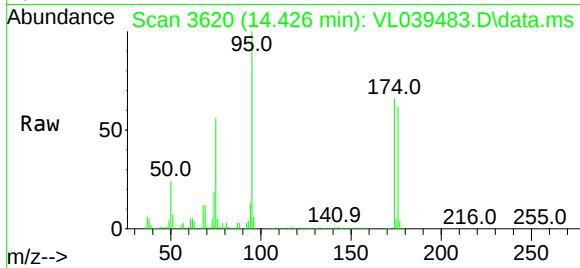
106 44.2 22.4 67.3





#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.301 ppbv  
RT: 14.426 min Scan# 3609  
Delta R.T. 0.035 min  
Lab File: VL039483.D  
Acq: 19 Jul 2022 15:19

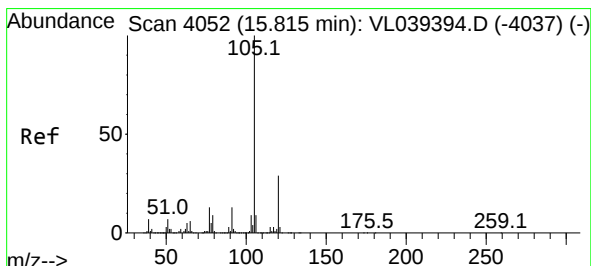
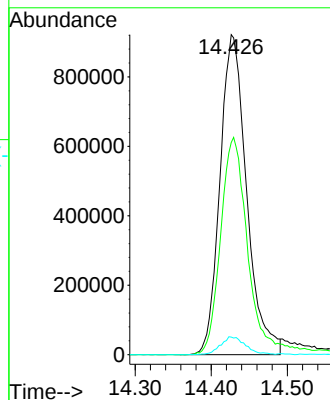
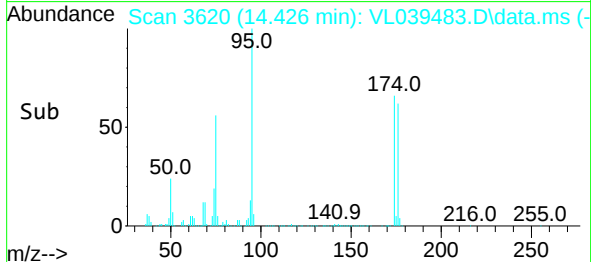
Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-8



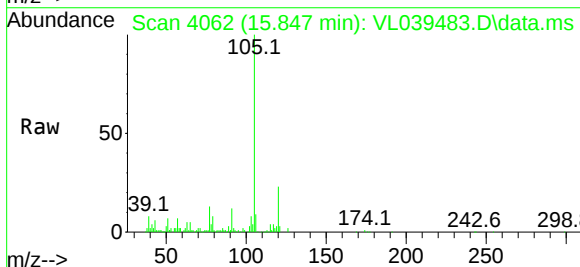
Tgt Ion: 95 Resp: 224176  
Ion Ratio Lower Upper  
95 100  
174 72.3 55.9 83.9  
175 5.4 4.2 6.4

Manual Integrations  
APPROVED

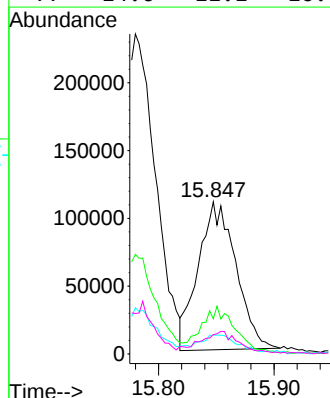
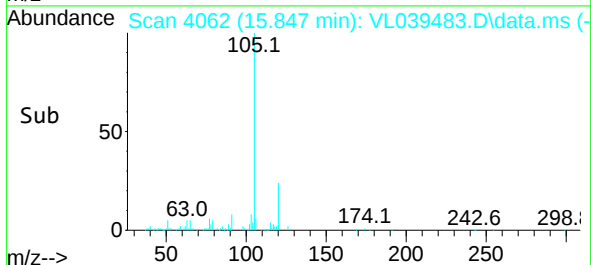
Reviewed By :Semsettin Yesilyurt 07/20/2022  
Supervised By :Mahesh Dadoda 07/21/2022

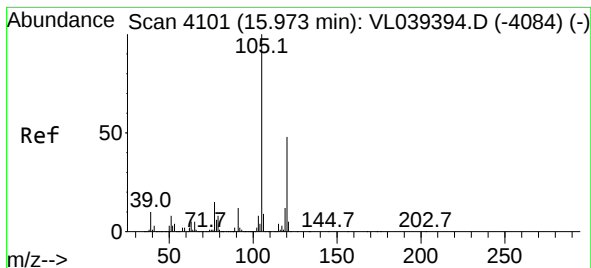


#72  
4-Ethyltoluene  
Concen: 0.665 ppbv  
RT: 15.847 min Scan# 4062  
Delta R.T. 0.032 min  
Lab File: VL039483.D  
Acq: 19 Jul 2022 15:19



Tgt Ion:105 Resp: 247149  
Ion Ratio Lower Upper  
105 100  
120 28.7 24.2 36.2  
91 12.2 10.2 15.4  
77 14.6 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 1.055 ppbv

RT: 16.011 min Scan# 41

Delta R.T. 0.039 min

Lab File: VL039483.D

Acq: 19 Jul 2022 15:19

Instrument :

MSVOA\_L

ClientSampleId :

SG-8

Tgt Ion:105 Resp: 36023

Ion Ratio Lower Upper

105 100

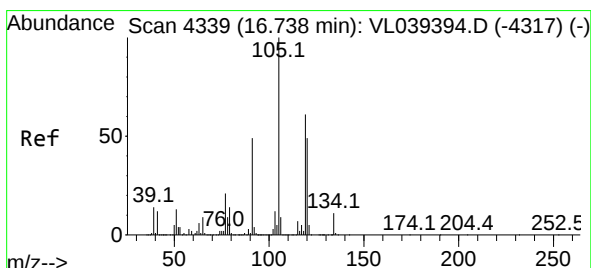
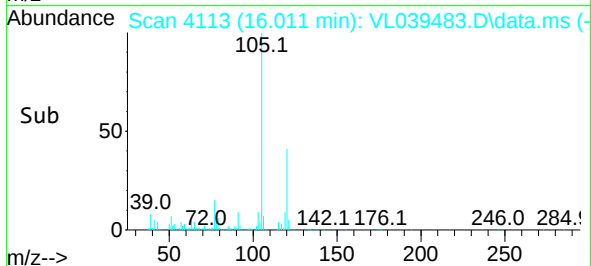
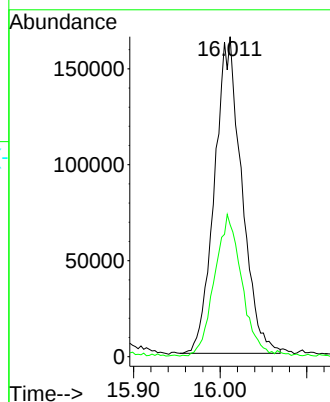
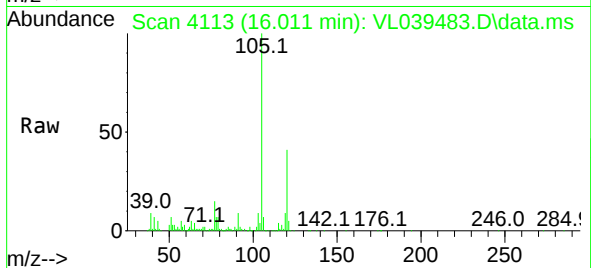
120 41.5 38.2 57.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/20/2022

Supervised By :Mahesh Dadoda 07/21/2022



#74

1,2,4-Trimethylbenzene

Concen: 2.924 ppbv

RT: 16.773 min Scan# 4350

Delta R.T. 0.035 min

Lab File: VL039483.D

Acq: 19 Jul 2022 15:19

Tgt Ion:105 Resp: 1104688

Ion Ratio Lower Upper

105 100

120 40.3 39.5 59.3

91 10.9 39.2 58.8#

77 14.7 17.2 25.8#

