

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032122\  
 Data File : VL038674.D  
 Acq On : 22 Mar 2022 6:33  
 Operator : SY/AP  
 Sample : N1964-15DL 10X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 C0P85DL

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/22/2022  
 Supervised By : Mahesh Dadoda 03/24/2022

Quant Time: Mar 28 05:13:00 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL032122A  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
 QLast Update : Mon Mar 21 17:09:26 2022  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 938241   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 2330383  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 1995304  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 1504291  | 9.83     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.30% |

| Target Compounds       | R.T.  | QIon | Response | Conc | Units | Qvalue |
|------------------------|-------|------|----------|------|-------|--------|
| 13) Ethanol            | 3.62  | 45   | 7410m    | 1.40 | ppbv  |        |
| 20) Methylene Chloride | 4.34  | 84   | 59499    | 1.74 | ppbv  | 94     |
| 26) Hexane             | 5.68  | 57   | 27524m   | 0.30 | ppbv  |        |
| 34) 2-Butanone         | 5.25  | 43   | 11547m   | 0.13 | ppbv  |        |
| 38) Trichloroethene    | 7.83  | 130  | 3477m    | 0.05 | ppbv  |        |
| 52) Tetrachloroethene  | 11.21 | 164  | 54463    | 0.83 | ppbv  | 95     |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032122\  
Data File : VL038674.D  
Acq On : 22 Mar 2022 6:33  
Operator : SY/AP  
Sample : N1964-15DL 10X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
C0P85DL

Manual Integrations  
APPROVED

Quant Time: Mar 28 05:13:00 2022

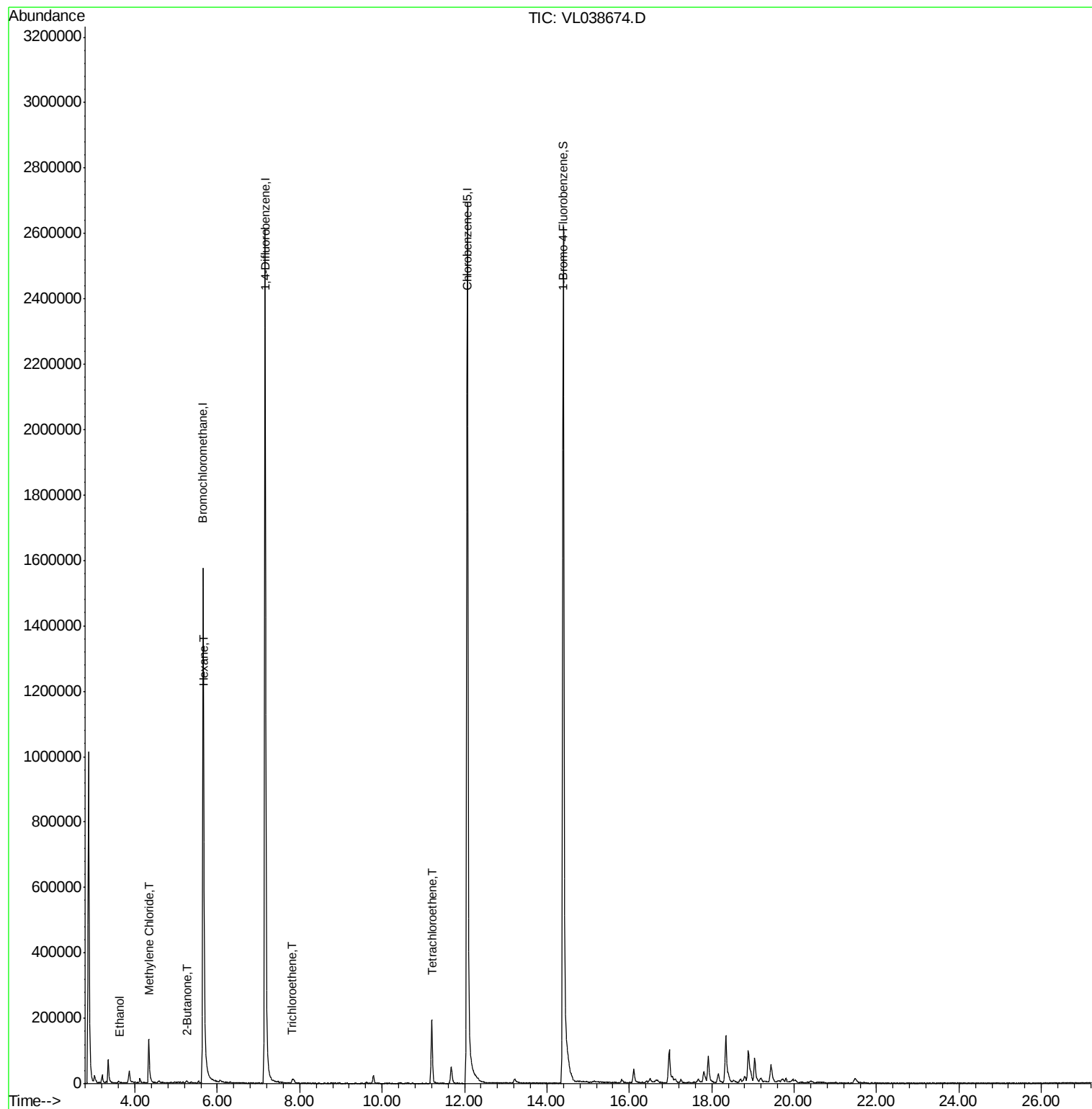
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL032122

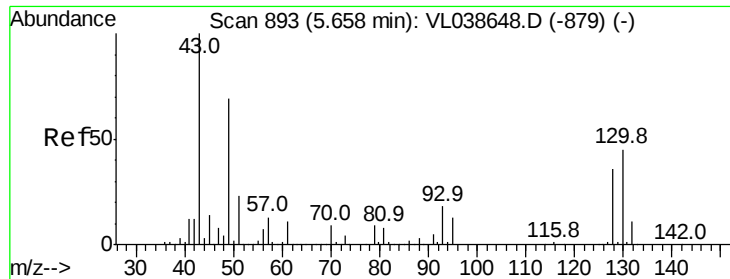
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Mon Mar 21 17:09:26 2022

Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 03/22/2022  
Supervised By :Mahesh Dadoda 03/24/2022





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 22 Mar 2022 0:33

Tgt Ion:

Ion Ratio

49 100

128 52.

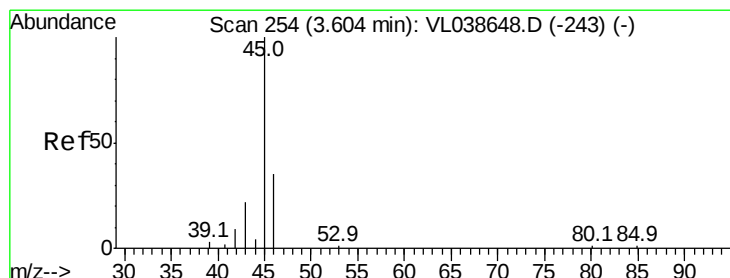
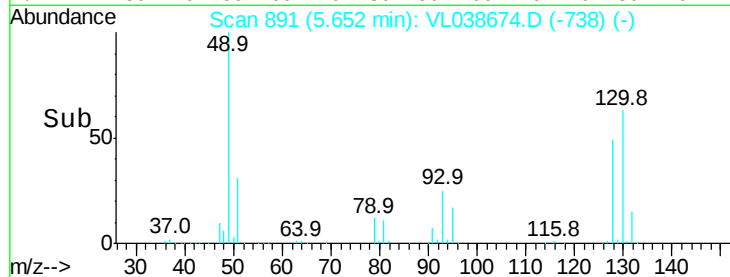
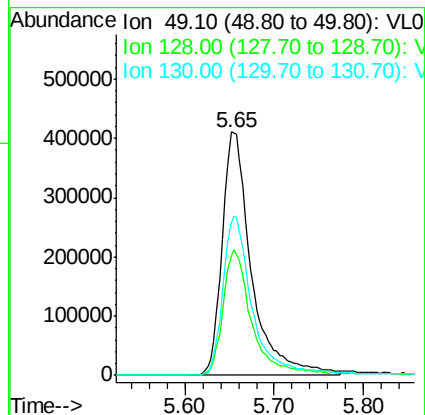
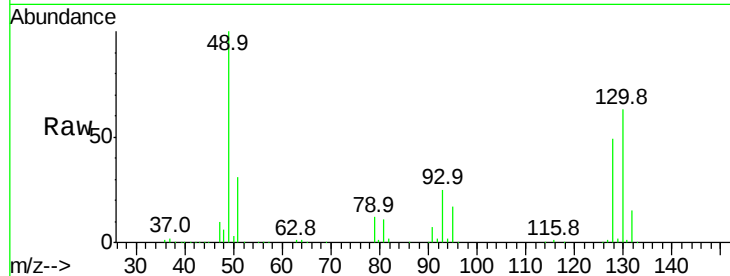
130 67.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/22/2022

Supervised By :Mahesh Dadoda 03/24/2022



#13

Ethanol

Concen: 1.40 ppbv m

RT: 3.62 min Scan# 260

Delta R.T. 0.02 min

Lab File: VL038674.D

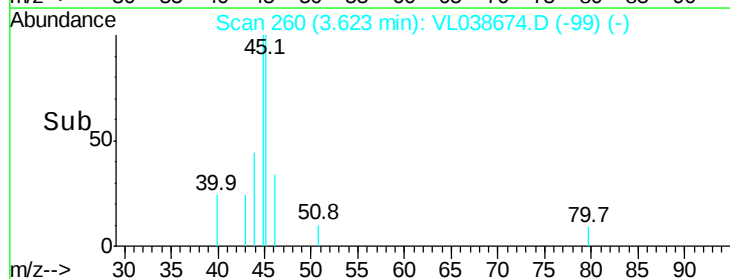
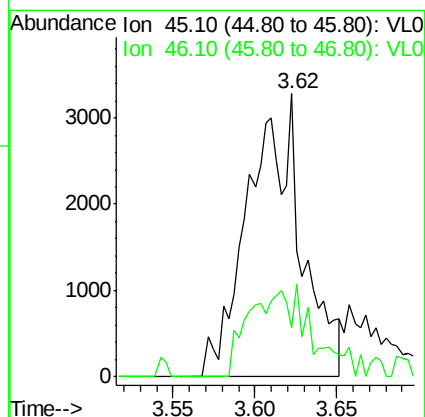
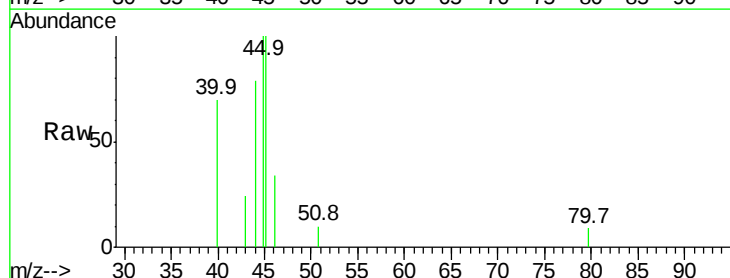
Acq: 22 Mar 2022 6:33

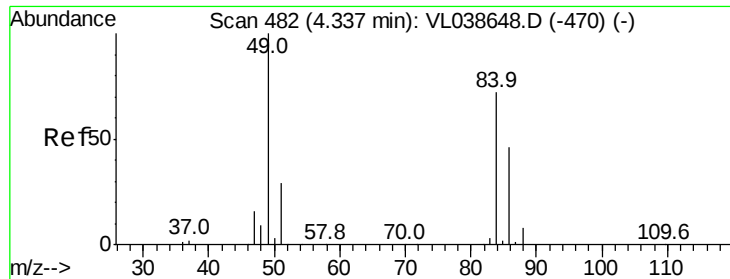
Tgt Ion: 45 Resp: 7410

Ion Ratio Lower Upper

45 100

46 0.0 15.1 60.5#



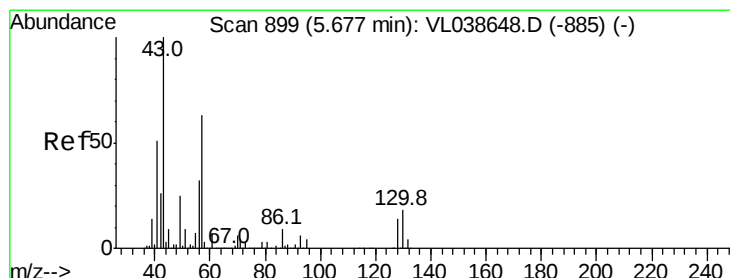
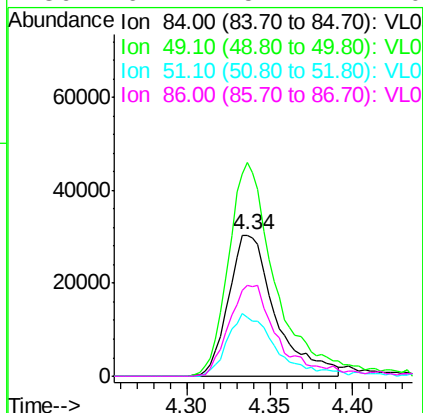
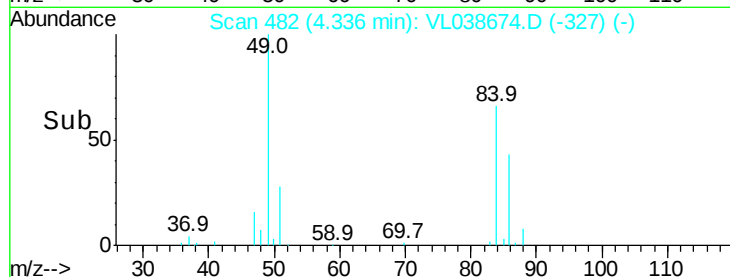
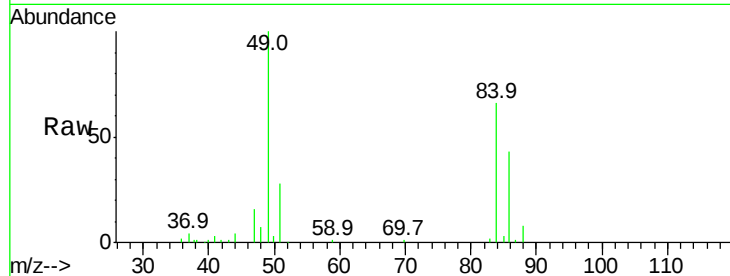


#20  
Methylene Chloride  
Concen: 1.74 ppbv  
RT: 4.34  
Instrument: MSVOA\_L  
Delta R.T.:  
Lab File: ClientSampleId :  
Acq: 22 Mar 2022 0:33

Tgt Ion:  
Ion Ratio  
84 100  
49 151.  
51 42.  
86 64.4 51.4 77.0

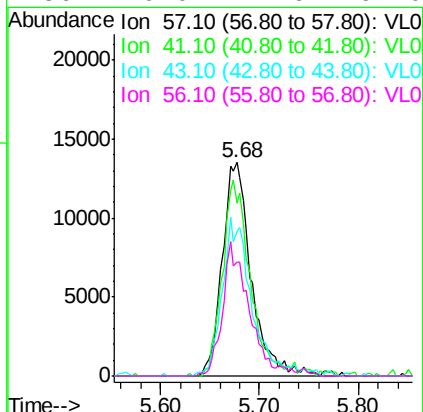
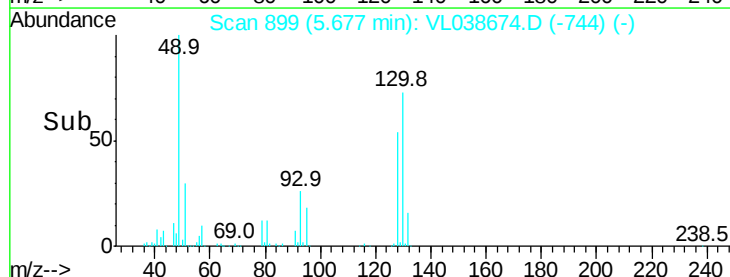
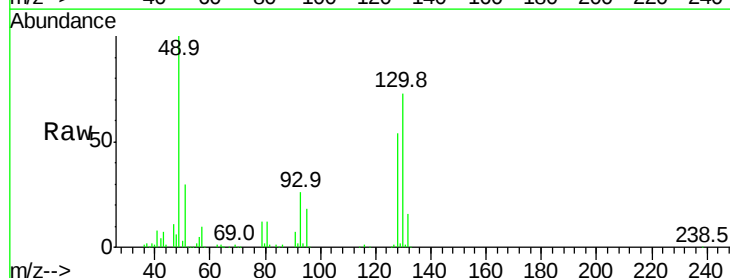
Manual Integrations  
APPROVED

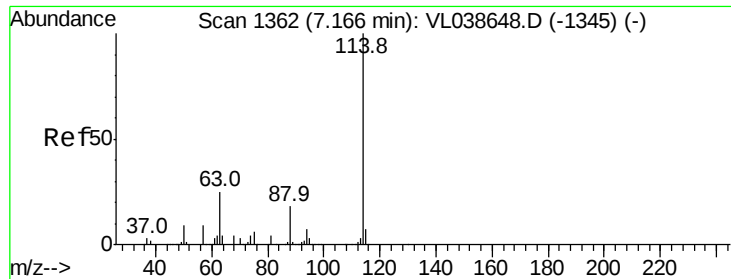
Reviewed By :Semsettin Yesilyurt 03/22/2022  
Supervised By :Mahesh Dadoda 03/24/2022



#26  
Hexane  
Concen: 0.30 ppbv m  
RT: 5.68 min Scan# 899  
Delta R.T. -0.00 min  
Lab File: VL038674.D  
Acq: 22 Mar 2022 6:33

Tgt Ion: 57 Resp: 27524  
Ion Ratio Lower Upper  
57 100  
41 0.0 67.0 100.4#  
43 0.0 184.2 276.2#  
56 0.0 42.6 64.0#



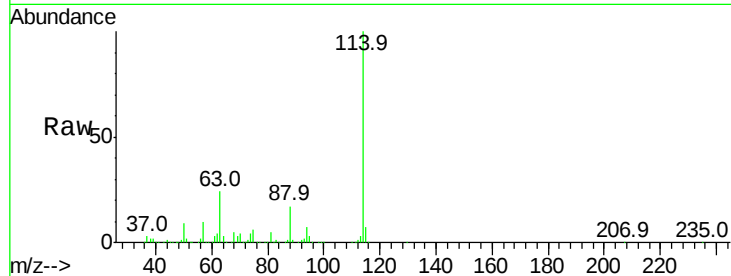


#33  
 1,4-Difluorobenzene  
 Concen: 10.00 ppbv  
 RT: 7.16  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 C0P85DL  
 Acq: 22 Mar 2022 0:33

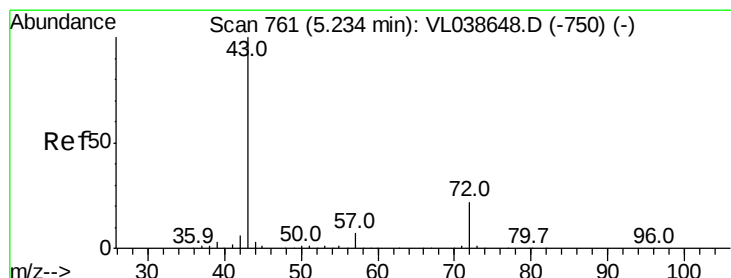
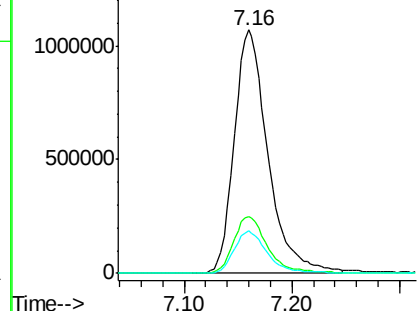
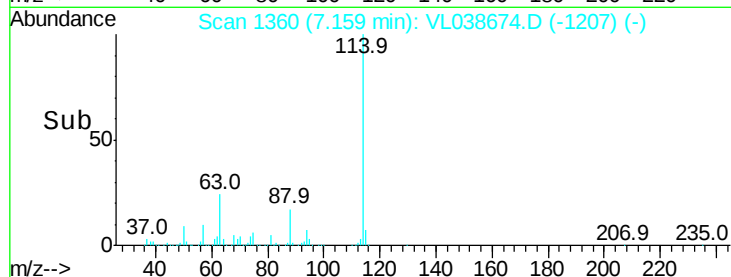
Tgt Ion: 114.10  
 Ion Ratio: 100  
 114 100  
 63 23.1  
 88 17.1

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/22/2022  
 Supervised By : Mahesh Dadoda 03/24/2022

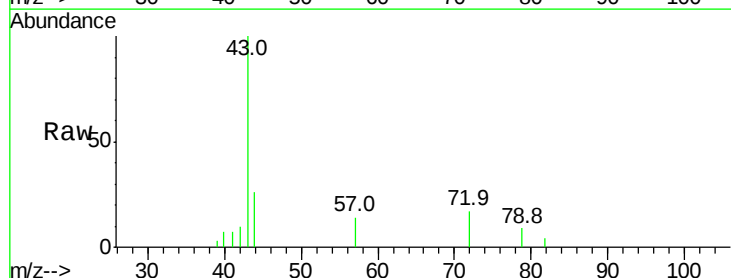


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

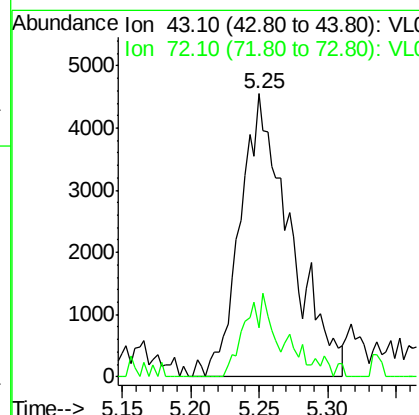
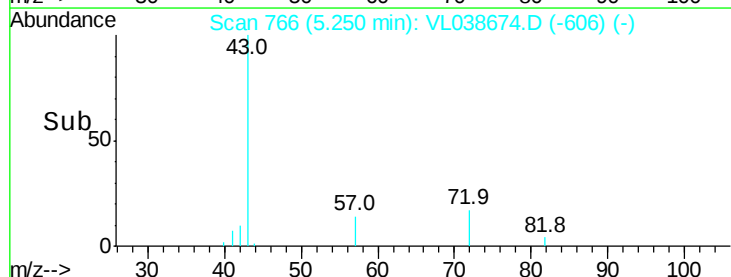


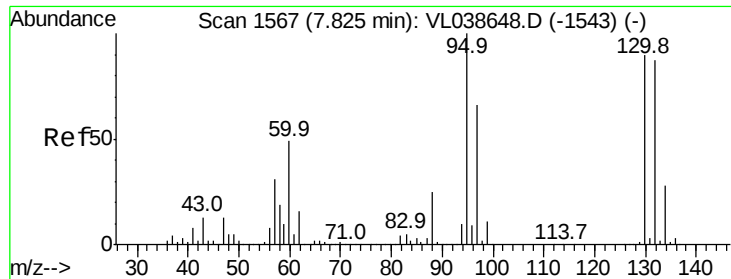
#34  
 2-Butanone  
 Concen: 0.13 ppbv m  
 RT: 5.25 min Scan# 766  
 Delta R.T.: 0.02 min  
 Lab File: VL038674.D  
 Acq: 22 Mar 2022 6:33

Tgt Ion: 43 Resp: 11547  
 Ion Ratio Lower Upper  
 43 100  
 72 0.0 17.8 26.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0  
 Ion 72.10 (71.80 to 72.80): VL0





#38

Trichloroethene

Concen: 0.05 ppbv m

RT: 7.83 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 22 Mar 2022 0:33 C0P85DL

Tgt Ion:1

Ion Rati

130 100

95 71.

132 95.

97 59.4

58.2

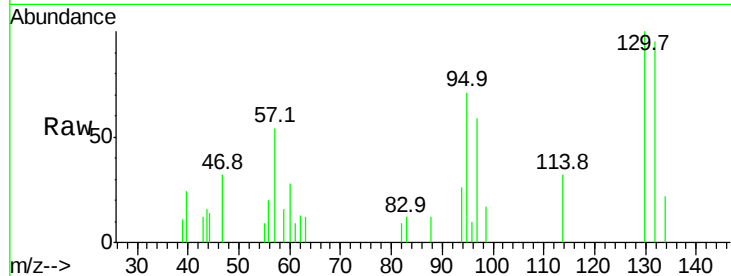
87.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/22/2022

Supervised By :Mahesh Dadoda 03/24/2022

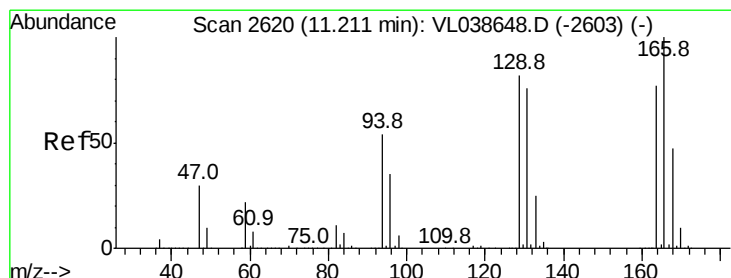
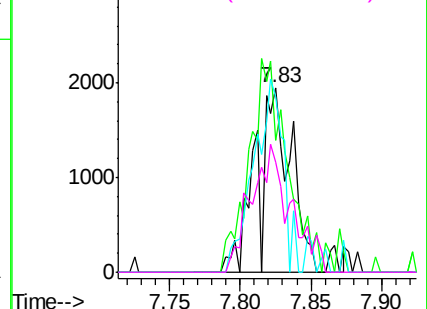
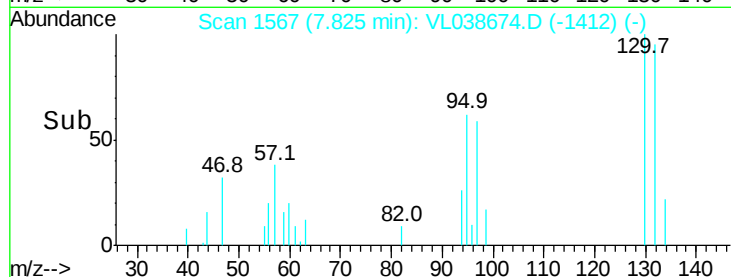


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#52

Tetrachloroethene

Concen: 0.83 ppbv

RT: 11.21 min Scan# 2619

Delta R.T. -0.00 min

Lab File: VL038674.D

Acq: 22 Mar 2022 6:33

Tgt Ion:164 Resp: 54463

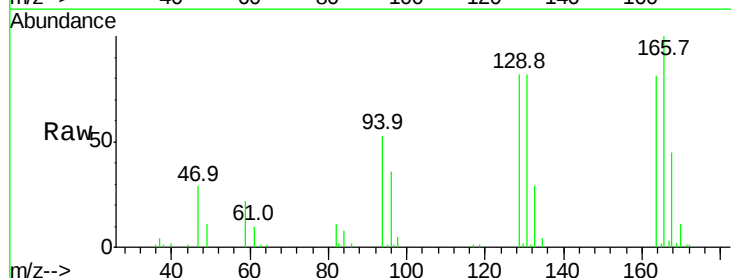
Ion Ratio Lower Upper

164 100

166 123.0 103.3 154.9

129 100.0 85.2 127.8

131 100.0 78.3 117.5

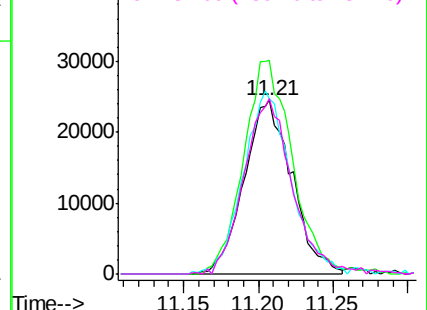
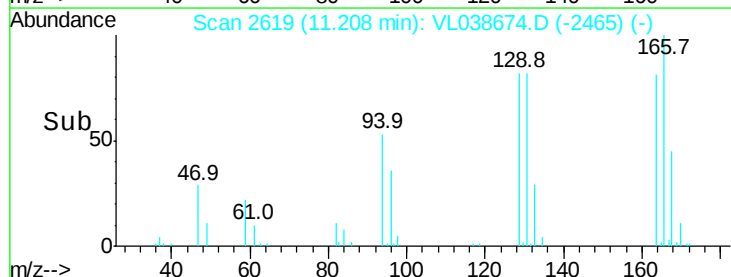


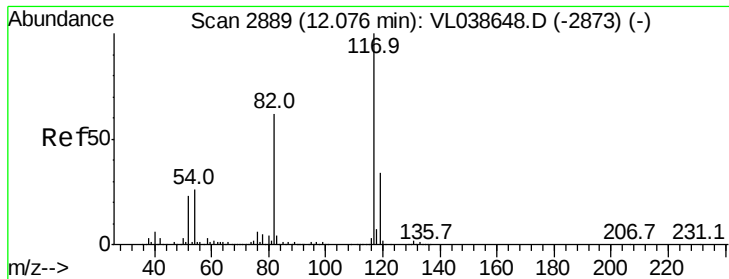
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



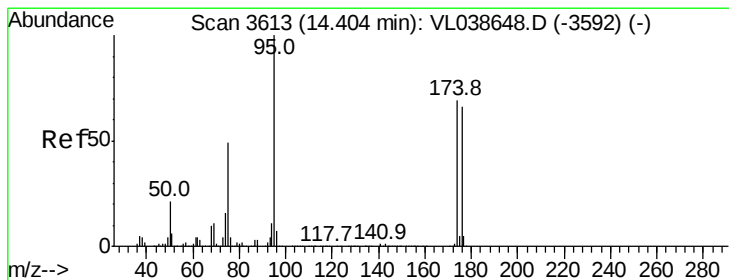
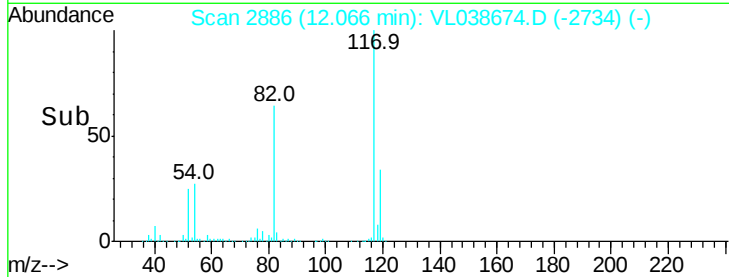
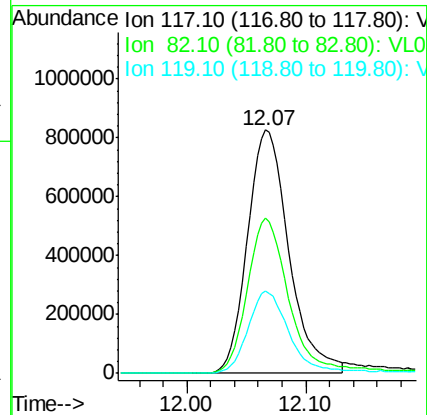
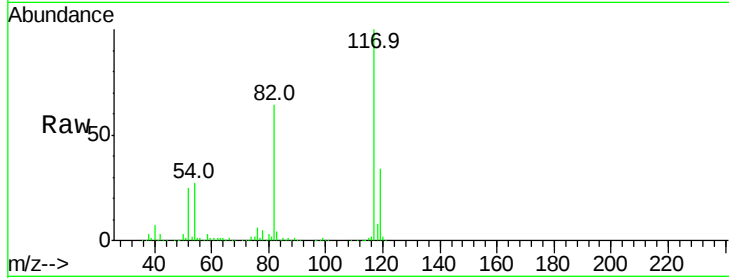


#55  
 Chlorobenzene-d5  
 Concen: 10.00 ppbv  
 RT: 12.07 min  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId :  
 COP85DL  
 Acq: 22 Mar 2022 0:33

Tgt Ion: 117  
 Ion Ratio: 100  
 82 67.1  
 119 35.1

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/22/2022  
 Supervised By : Mahesh Dadoda 03/24/2022



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.83 ppbv  
 RT: 14.39 min Scan# 3610  
 Delta R.T.: -0.01 min  
 Lab File: VL038674.D  
 Acq: 22 Mar 2022 6:33

Tgt Ion: 95 Resp: 1504291  
 Ion Ratio Lower Upper  
 95 100  
 174 72.2 56.1 84.1  
 175 5.2 4.2 6.2

