

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU020623\  
 Data File : VU052985.D  
 Acq On : 06 Feb 2023 17:30  
 Operator : JC/MD  
 Sample : 01378-01  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-QT1-2023-01

Quant Time: Feb 07 02:53:28 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR011023WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Sun Feb 05 21:58:05 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 02/07/2023  
 Supervised By : Mahesh Dadoda 02/07/2023

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.243  | 114   | 134215   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.414  | 117   | 137497   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809 | 152   | 62126    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597  | 65    | 32007    | 2.714    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 54.200%  |
| 7) Chloroethane-d5            | 1.912  | 69    | 36834    | 3.834    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 76.600%  |
| 11) 1,1-Dichloroethene-d2     | 2.565  | 65    | 17225    | 3.317    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 66.400%  |
| 20) 2-Butanone-d5             | 4.642  | 46    | 124434   | 39.468   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 78.940%  |
| 24) Chloroform-d              | 5.060  | 84    | 98451    | 4.476    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 89.600%  |
| 26) 1,2-Dichloroethane-d4     | 5.697  | 65    | 49598    | 4.391    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 87.800%  |
| 32) Benzene-d6                | 5.722  | 84    | 176471   | 3.960    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 79.200%  |
| 36) 1,2-Dichloropropane-d6    | 6.687  | 67    | 56910    | 3.832    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 76.600%  |
| 41) Toluene-d8                | 7.893  | 98    | 139113   | 3.541    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 70.800%  |
| 43) trans-1,3-Dichloroprop... | 8.176  | 79    | 20051    | 3.631    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 72.600%  |
| 46) 2-Hexanone-d5             | 8.632  | 63    | 85454    | 37.248   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 74.500%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.751 | 84    | 51447    | 4.525    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 90.400%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.188 | 152   | 57337    | 5.070    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 101.400% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.385  | 85    | 2352     | 0.163    | ug/L   | 97       |
| 3) Chloromethane              | 1.520  | 50    | 2596     | 0.148    | ug/L   | 89       |
| 5) Vinyl chloride             | 1.604  | 62    | 2736     | 0.163    | ug/L   | 98       |
| 6) Bromomethane               | 1.858  | 94    | 1786     | 0.205    | ug/L   | 98       |
| 8) Chloroethane               | 1.935  | 64    | 1604     | 0.157    | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 2.137  | 101   | 3945     | 0.200    | ug/L   | 86       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.575  | 101   | 3004     | 0.259    | ug/L # | 84       |
| 12) 1,1-Dichloroethene        | 2.578  | 96    | 2557     | 0.220    | ug/L # | 1        |
| 14) Carbon disulfide          | 2.793  | 76    | 6083     | 0.151    | ug/L # | 95       |
| 17) Methyl tert-butyl Ether   | 3.362  | 73    | 4635     | 0.180    | ug/L # | 78       |
| 18) trans-1,2-Dichloroethene  | 3.353  | 96    | 2312     | 0.195    | ug/L # | 71       |
| 19) 1,1-Dichloroethane        | 3.864  | 63    | 4490     | 0.182    | ug/L   | 91       |
| 21) 2-Butanone                | 4.719  | 43    | 6012m    | 1.652    | ug/L   |          |
| 22) cis-1,2-Dichloroethene    | 4.668  | 96    | 2611m    | 0.205    | ug/L   |          |
| 23) Bromochloromethane        | 4.970  | 128   | 1053     | 0.195    | ug/L # | 74       |
| 27) 1,2-Dichloroethane        | 5.790  | 62    | 2908     | 0.198    | ug/L # | 89       |
| 29) 1,1,1-Trichloroethane     | 5.311  | 97    | 3750     | 0.174    | ug/L # | 70       |
| 31) Carbon tetrachloride      | 5.520  | 117   | 2928     | 0.173    | ug/L   | 88       |
| 33) Benzene                   | 5.777  | 78    | 11266    | 0.207    | ug/L   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU020623\  
 Data File : VU052985.D  
 Acq On : 06 Feb 2023 17:30  
 Operator : JC/MD  
 Sample : 01378-01  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-QT1-2023-01

Quant Time: Feb 07 02:53:28 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR011023WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Sun Feb 05 21:58:05 2023  
 Response via : Initial Calibration

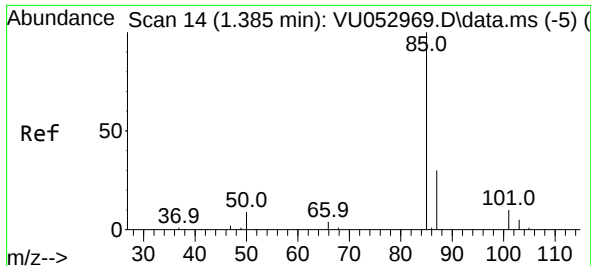
Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/07/2023  
 Supervised By : Mahesh Dadoda 02/07/2023

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 34) Trichloroethene           | 6.539  | 95   | 3679     | 0.286 | ug/L   | 94       |
| 37) 1,2-Dichloropropane       | 6.790  | 63   | 2406     | 0.165 | ug/L # | 89       |
| 38) Bromodichloromethane      | 7.105  | 83   | 3173     | 0.185 | ug/L # | 90       |
| 39) cis-1,3-Dichloropropene   | 7.607  | 75   | 3058     | 0.165 | ug/L   | 99       |
| 42) Toluene                   | 7.967  | 91   | 9388     | 0.173 | ug/L   | 94       |
| 44) trans-1,3-Dichloropropene | 8.211  | 75   | 2660     | 0.166 | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane     | 8.394  | 97   | 1876     | 0.204 | ug/L   | 82       |
| 47) Tetrachloroethene         | 8.549  | 164  | 2871     | 0.303 | ug/L   | 87       |
| 48) 2-Hexanone                | 8.684  | 43   | 16148    | 2.640 | ug/L   | 93       |
| 49) Dibromochloromethane      | 8.806  | 129  | 2146     | 0.202 | ug/L   | 95       |
| 50) 1,2-Dibromoethane         | 8.922  | 107  | 1595     | 0.189 | ug/L # | 86       |
| 51) Chlorobenzene             | 9.443  | 112  | 7065     | 0.209 | ug/L   | 92       |
| 52) Ethylbenzene              | 9.568  | 91   | 8750     | 0.158 | ug/L   | 87       |
| 53) m,p-Xylene                | 9.693  | 106  | 3202     | 0.153 | ug/L   | 85       |
| 54) o-Xylene                  | 10.099 | 106  | 3252     | 0.163 | ug/L   | 75       |
| 57) 1,1,2,2-Tetrachloroethane | 10.777 | 83   | 2402     | 0.200 | ug/L # | 93       |
| 59) Bromoform                 | 10.288 | 173  | 1242     | 0.257 | ug/L # | 76       |
| 60) Isopropylbenzene          | 10.481 | 105  | 7590     | 0.172 | ug/L   | 97       |
| 61) 1,2,3-Trichloropropane    | 10.819 | 75   | 1703     | 0.236 | ug/L   | 97       |
| 62) 1,3,5-Trimethylbenzene    | 11.086 | 105  | 5883     | 0.168 | ug/L   | 94       |
| 63) 1,2,4-Trimethylbenzene    | 11.465 | 105  | 5446     | 0.154 | ug/L   | 93       |
| 64) 1,3-Dichlorobenzene       | 11.745 | 146  | 4529     | 0.216 | ug/L   | 93       |
| 65) 1,4-Dichlorobenzene       | 11.832 | 146  | 5425     | 0.254 | ug/L   | 89       |
| 67) 1,2-Dichlorobenzene       | 12.208 | 146  | 5008     | 0.254 | ug/L   | 94       |
| 69) 1,3,5-Trichlorobenzene    | 13.221 | 180  | 3692     | 0.237 | ug/L   | 99       |

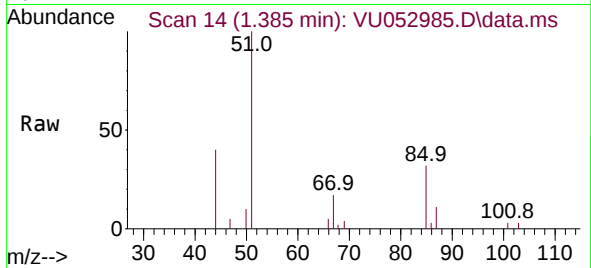
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#2  
Dichlorodifluoromethane  
Concen: 0.163 ug/L  
RT: 1.385 min Scan# 14  
Delta R.T. 0.003 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

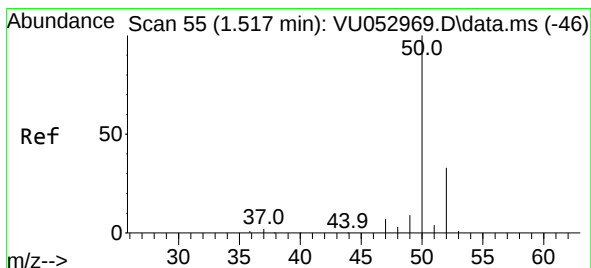
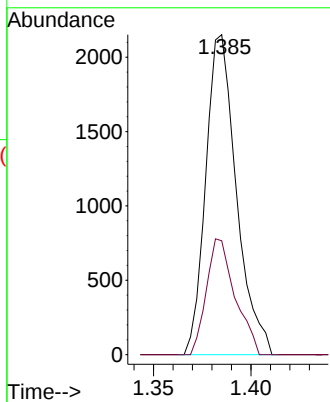
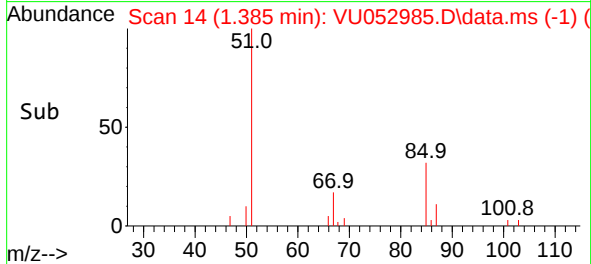
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT1-2023-01



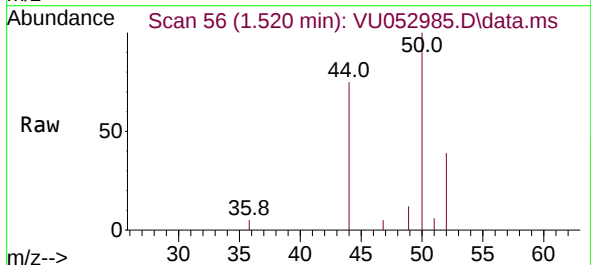
Tgt Ion: 85 Resp: 235  
Ion Ratio Lower Upper  
85 100  
87 33.8 25.5 38.3

Manual Integrations  
APPROVED

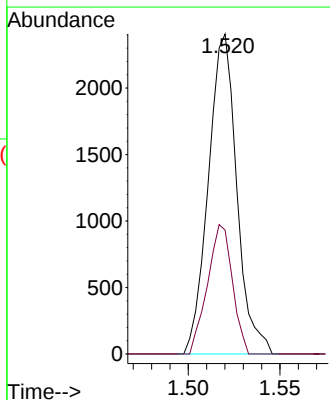
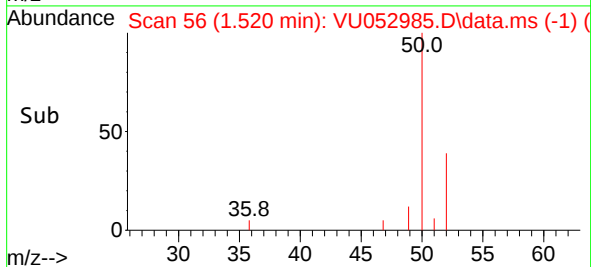
Reviewed By :John Carlone 02/07/2023  
Supervised By :Mahesh Dadoda 02/07/2023

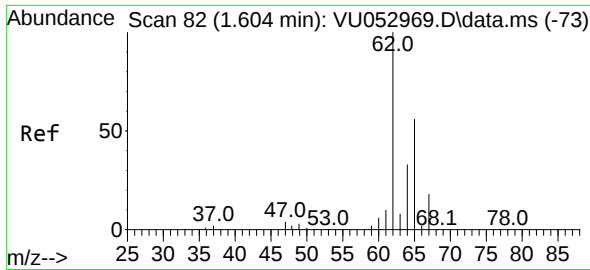


#3  
Chloromethane  
Concen: 0.148 ug/L  
RT: 1.520 min Scan# 56  
Delta R.T. 0.003 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30



Tgt Ion: 50 Resp: 2596  
Ion Ratio Lower Upper  
50 100  
52 38.7 22.7 42.3





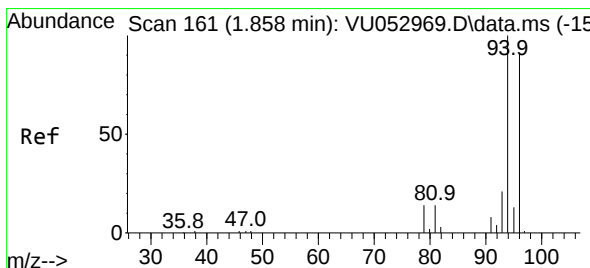
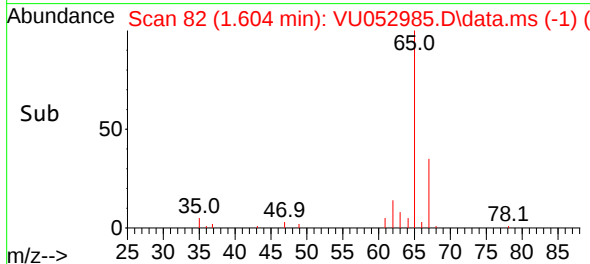
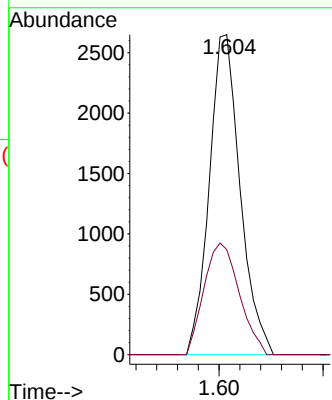
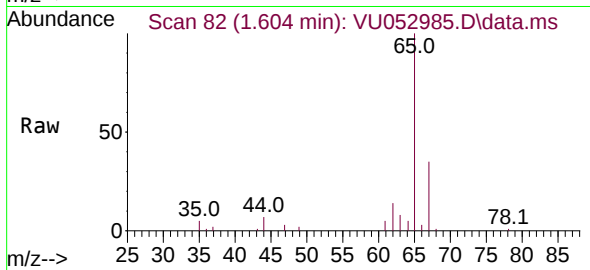
#5  
 Vinyl chloride  
 Concen: 0.163 ug/L  
 RT: 1.604 min Scan# 82  
 Delta R.T. 0.003 min  
 Lab File: VU052985.D  
 Acq: 06 Feb 2023 17:30

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-QT1-2023-01

Tgt Ion: 62 Resp: 2730  
 Ion Ratio Lower Upper  
 62 100  
 64 32.8 22.3 41.3

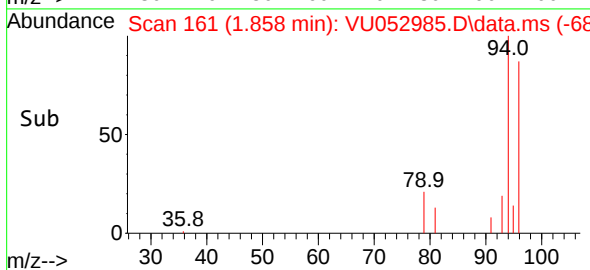
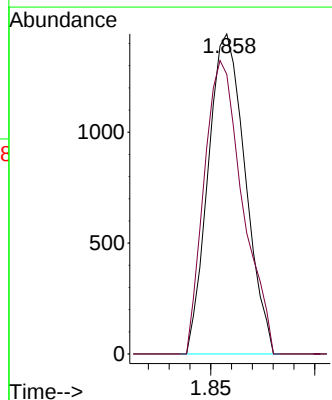
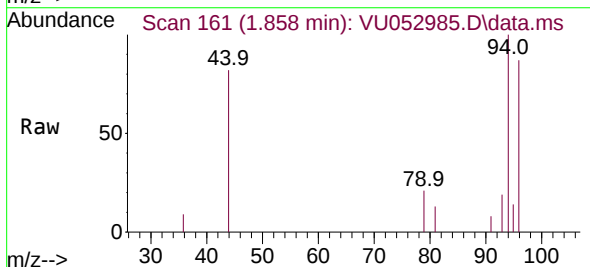
Manual Integrations  
 APPROVED

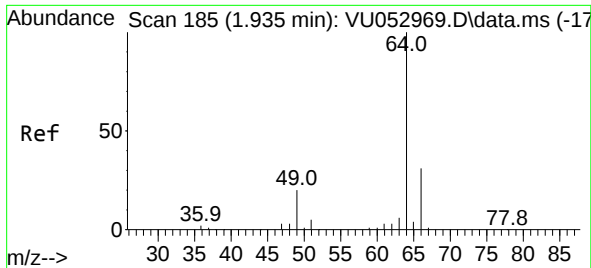
Reviewed By :John Carlone 02/07/2023  
 Supervised By :Mahesh Dadoda 02/07/2023



#6  
 Bromomethane  
 Concen: 0.205 ug/L  
 RT: 1.858 min Scan# 161  
 Delta R.T. -0.000 min  
 Lab File: VU052985.D  
 Acq: 06 Feb 2023 17:30

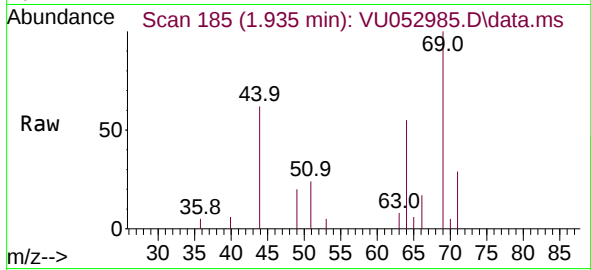
Tgt Ion: 94 Resp: 1786  
 Ion Ratio Lower Upper  
 94 100  
 96 87.4 62.2 115.6





#8  
Chloroethane  
Concen: 0.157 ug/L  
RT: 1.935 min Scan# 185  
Delta R.T. 0.003 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

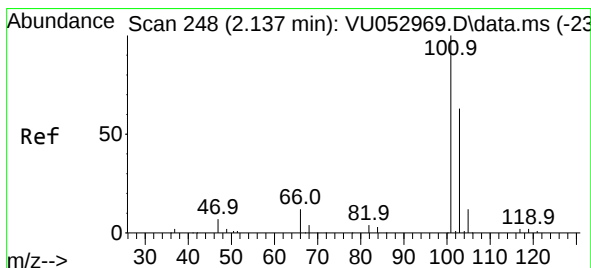
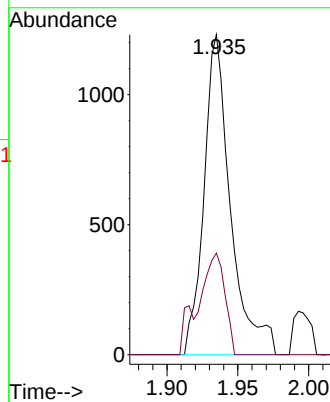
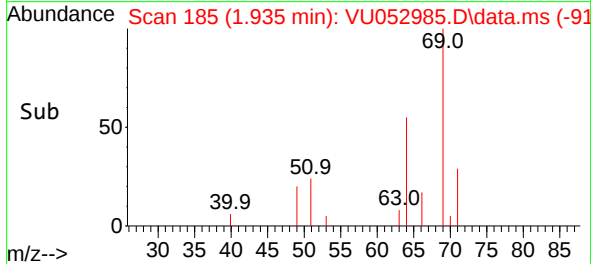
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT1-2023-01



Tgt Ion: 64 Resp: 1604  
Ion Ratio Lower Upper  
64 100  
66 31.8 21.6 40.2

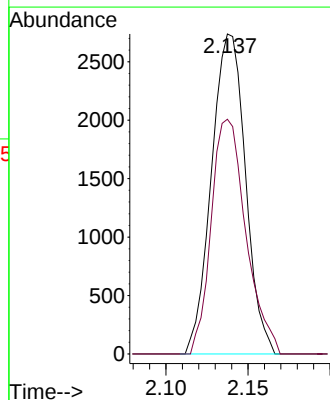
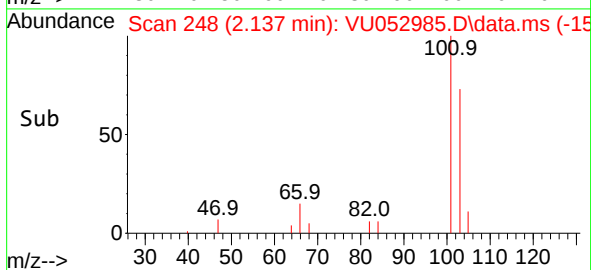
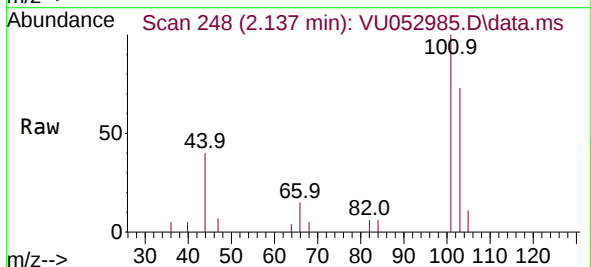
Manual Integrations  
APPROVED

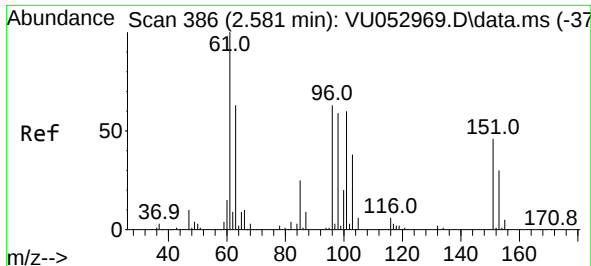
Reviewed By :John Carlone 02/07/2023  
Supervised By :Mahesh Dadoda 02/07/2023



#9  
Trichlorofluoromethane  
Concen: 0.200 ug/L  
RT: 2.137 min Scan# 248  
Delta R.T. -0.000 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

Tgt Ion:101 Resp: 3945  
Ion Ratio Lower Upper  
101 100  
103 74.8 51.0 76.6





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.259 ug/L

RT: 2.575 min Scan# 384

Delta R.T. -0.003 min

Lab File: VU052985.D

Acq: 06 Feb 2023 17:30

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-QT1-2023-01

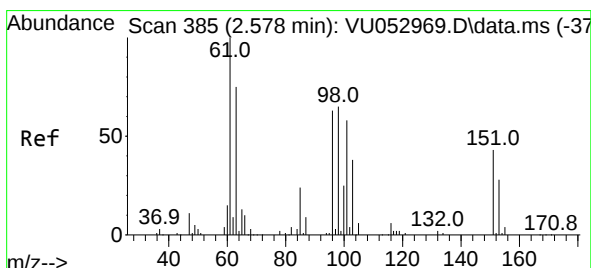
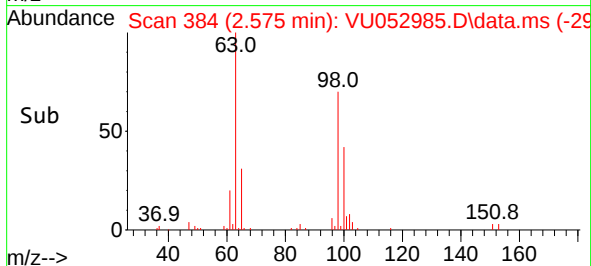
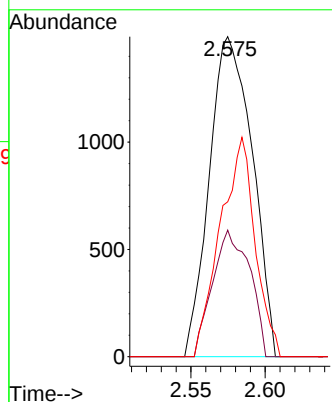
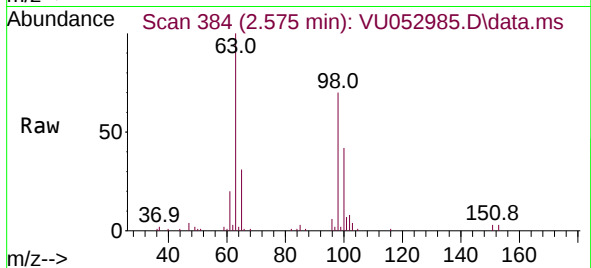
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 101   | Resp: | 3004 |
| Ion Ratio | Lower | Upper |      |
| 101       | 100   |       |      |
| 85        | 34.2  | 35.0  | 52.6 |
| 151       | 55.5  | 55.0  | 82.6 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/07/2023

Supervised By :Mahesh Dadoda 02/07/2023



#12

1,1-Dichloroethene

Concen: 0.220 ug/L

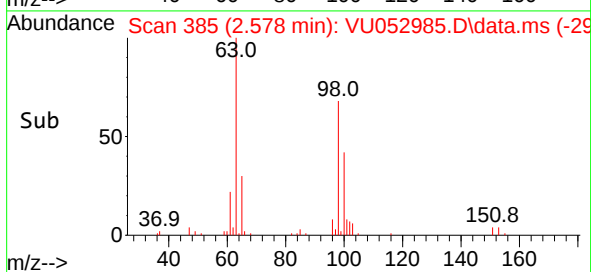
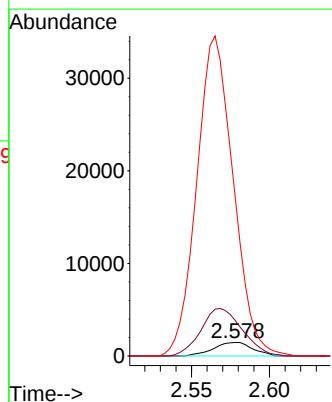
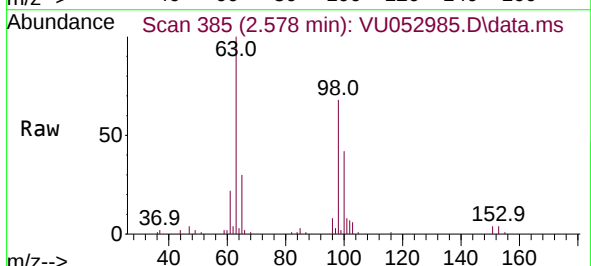
RT: 2.578 min Scan# 385

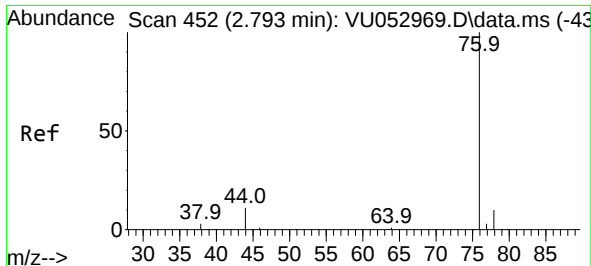
Delta R.T. -0.000 min

Lab File: VU052985.D

Acq: 06 Feb 2023 17:30

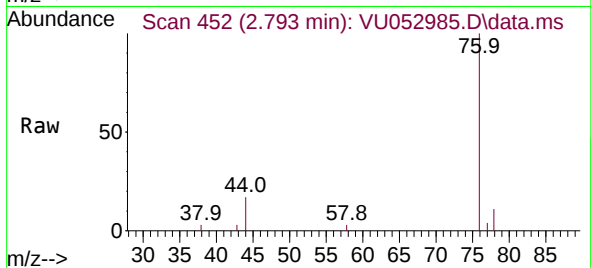
|           |        |       |        |
|-----------|--------|-------|--------|
| Tgt Ion:  | 96     | Resp: | 2557   |
| Ion Ratio | Lower  | Upper |        |
| 96        | 100    |       |        |
| 61        | 264.1  | 129.6 | 240.8# |
| 63        | 1184.1 | 83.7  | 155.5# |





#14  
Carbon disulfide  
Concen: 0.151 ug/L  
RT: 2.793 min Scan# 452  
Delta R.T. 0.003 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

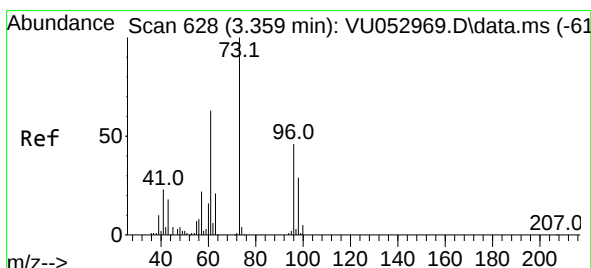
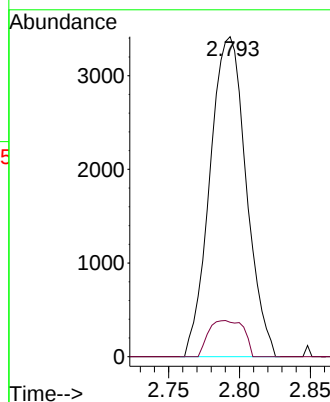
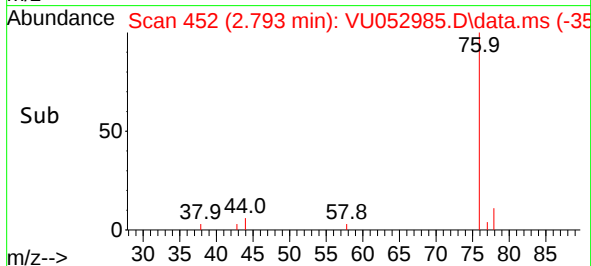
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT1-2023-01



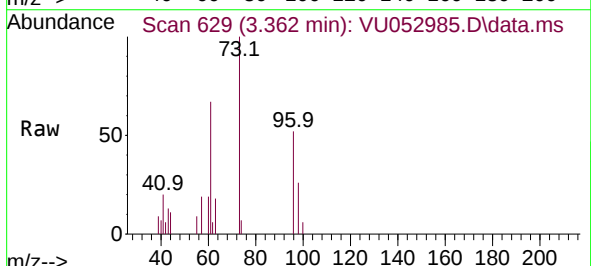
Tgt Ion: 76 Resp: 6083  
Ion Ratio Lower Upper  
76 100  
78 10.8 7.0 10.6

Manual Integrations  
APPROVED

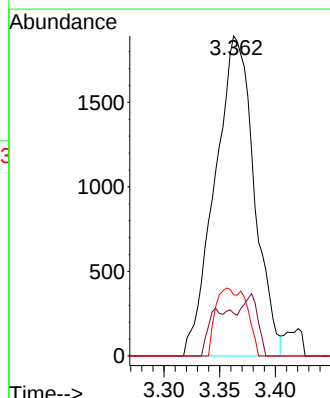
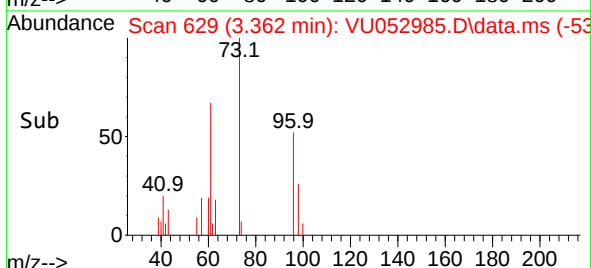
Reviewed By :John Carlone 02/07/2023  
Supervised By :Mahesh Dadoda 02/07/2023

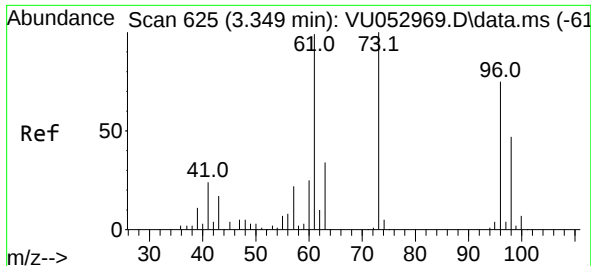


#17  
Methyl tert-butyl Ether  
Concen: 0.180 ug/L  
RT: 3.362 min Scan# 629  
Delta R.T. 0.006 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30



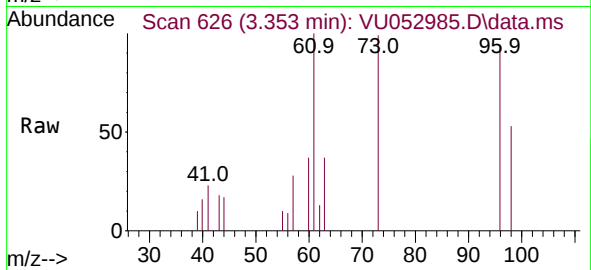
Tgt Ion: 73 Resp: 4635  
Ion Ratio Lower Upper  
73 100  
43 5.5 15.8 23.8#  
57 16.7 18.6 28.0#





#18  
trans-1,2-Dichloroethene  
Concen: 0.195 ug/L  
RT: 3.353 min Scan# 611  
Delta R.T. 0.003 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

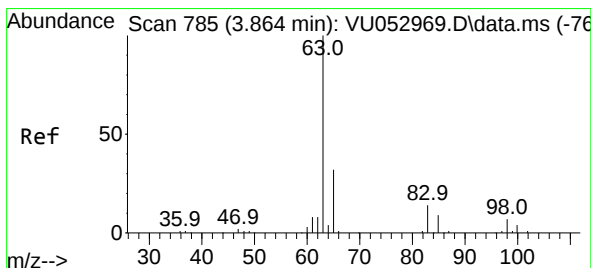
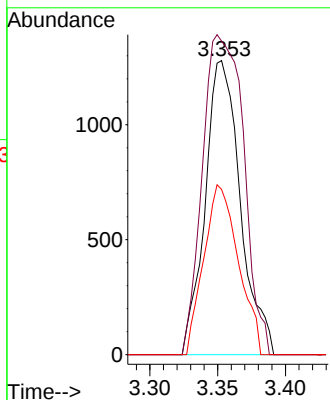
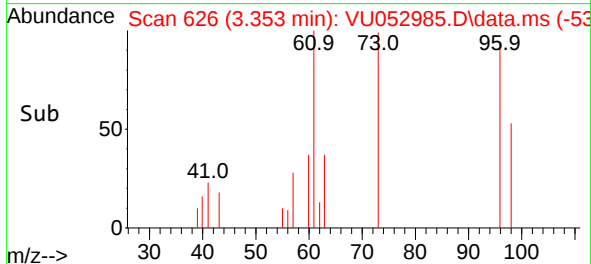
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT1-2023-01



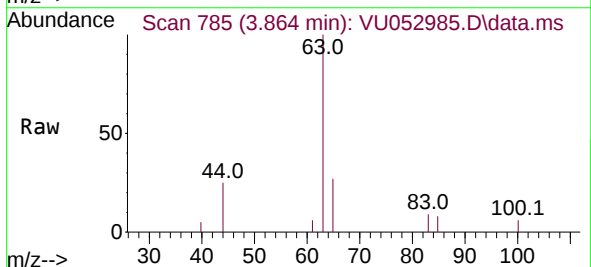
Tgt Ion: 96 Resp: 2312  
Ion Ratio Lower Upper  
96 100  
61 106.6 108.4 201.4  
98 56.2 43.8 81.4

Manual Integrations  
APPROVED

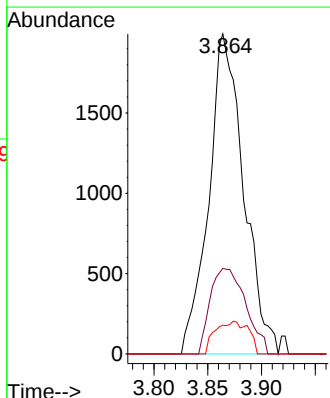
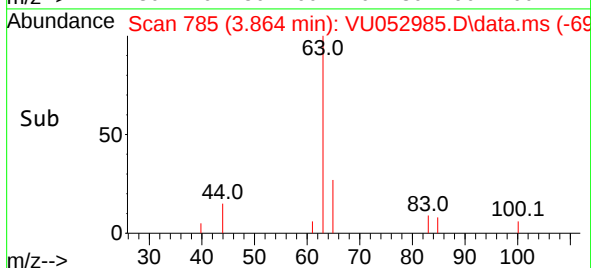
Reviewed By :John Carlone 02/07/2023  
Supervised By :Mahesh Dadoda 02/07/2023

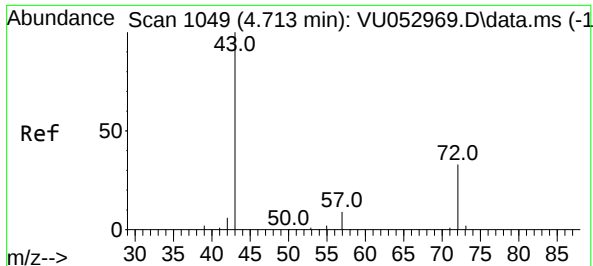


#19  
1,1-Dichloroethane  
Concen: 0.182 ug/L  
RT: 3.864 min Scan# 785  
Delta R.T. 0.003 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30



Tgt Ion: 63 Resp: 4490  
Ion Ratio Lower Upper  
63 100  
65 26.8 22.0 41.0  
83 9.0 8.9 16.5





#21

2-Butanone

Concen: 1.652 ug/L m

RT: 4.719 min Scan# 1049

Delta R.T. 0.006 min

Lab File: VU052985.D

Acq: 06 Feb 2023 17:30

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-QT1-2023-01

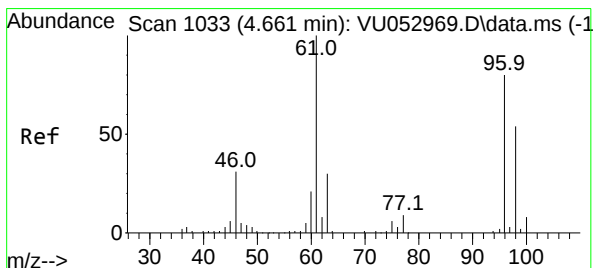
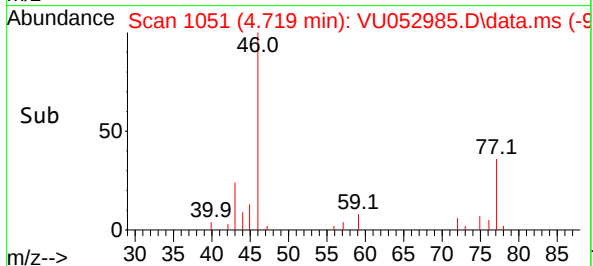
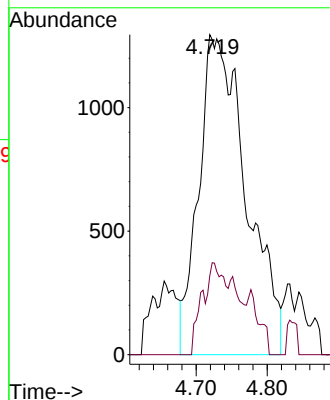
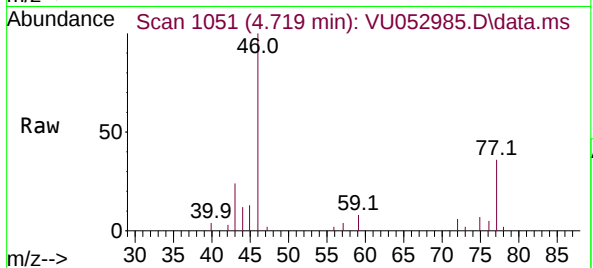
Tgt Ion: 43 Resp: 601  
 Ion Ratio Lower Upper  
 43 100  
 72 10.1 12.9 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/07/2023

Supervised By :Mahesh Dadoda 02/07/2023



#22

cis-1,2-Dichloroethene

Concen: 0.205 ug/L m

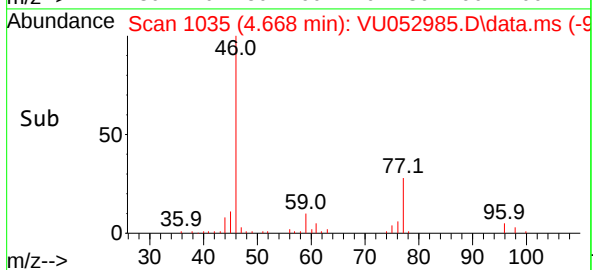
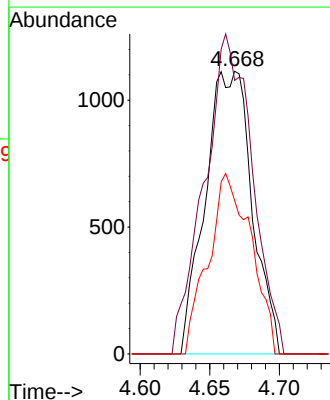
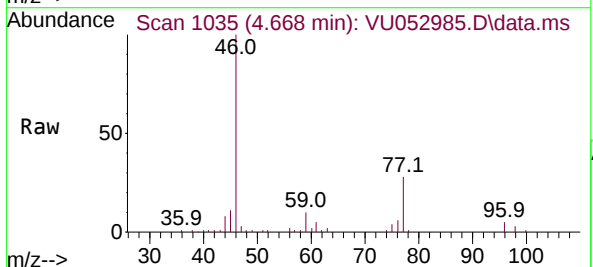
RT: 4.668 min Scan# 1035

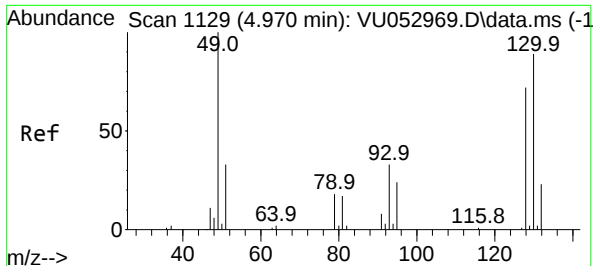
Delta R.T. 0.006 min

Lab File: VU052985.D

Acq: 06 Feb 2023 17:30

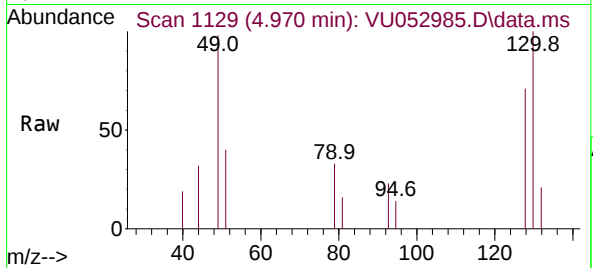
Tgt Ion: 96 Resp: 2611  
 Ion Ratio Lower Upper  
 96 100  
 61 96.8 94.6 175.8  
 98 54.3 43.3 80.3





#23  
Bromochloromethane  
Concen: 0.195 ug/L  
RT: 4.970 min Scan# 1129  
Delta R.T. -0.000 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

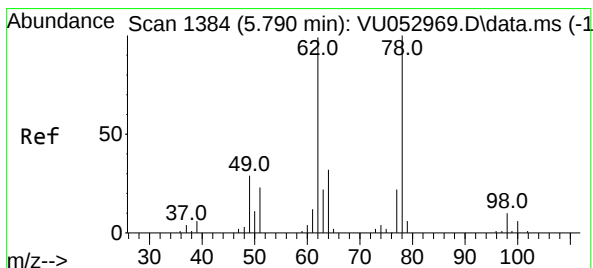
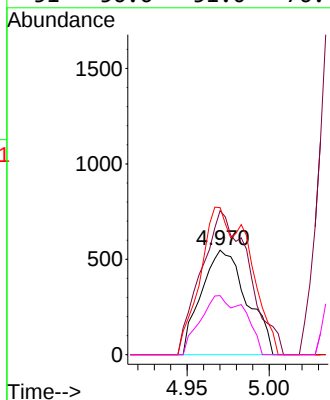
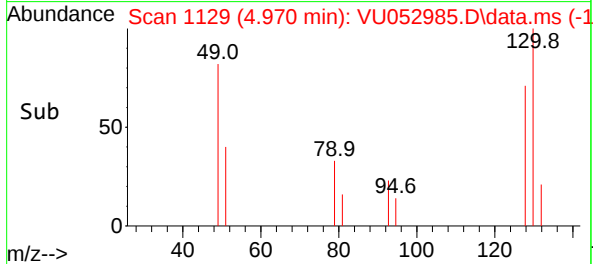
Instrument : MSVOA\_U  
ClientSampleId : MDL-WATER-QT1-2023-01



Tgt Ion: 128 Resp: 105  
Ion Ratio Lower Upper  
128 100  
49 137.8 142.8 265.2  
130 140.7 91.3 169.5  
51 56.6 51.0 76.4

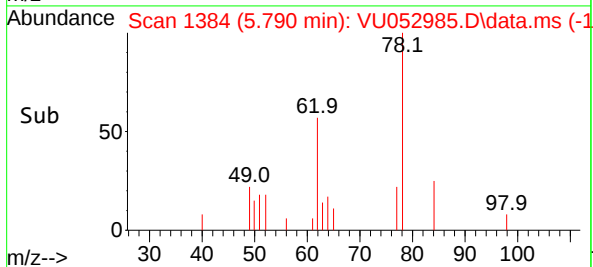
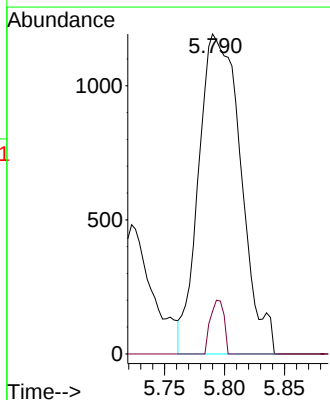
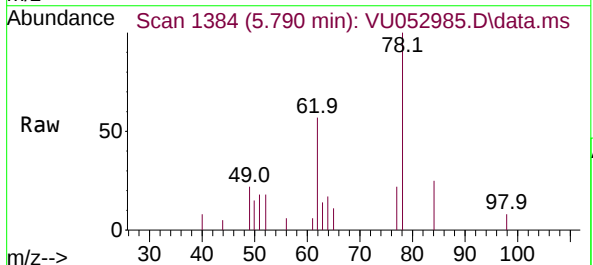
Manual Integrations  
APPROVED

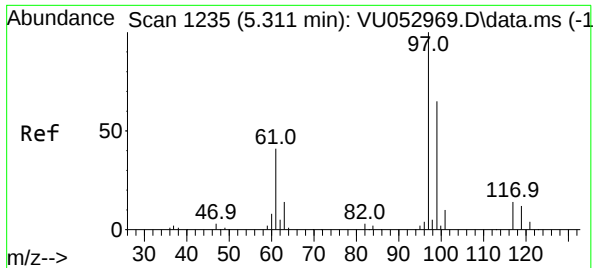
Reviewed By : John Carlone 02/07/2023  
Supervised By : Mahesh Dadoda 02/07/2023



#27  
1,2-Dichloroethane  
Concen: 0.198 ug/L  
RT: 5.790 min Scan# 1384  
Delta R.T. -0.000 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

Tgt Ion: 62 Resp: 2908  
Ion Ratio Lower Upper  
62 100  
98 13.3 7.5 11.3#





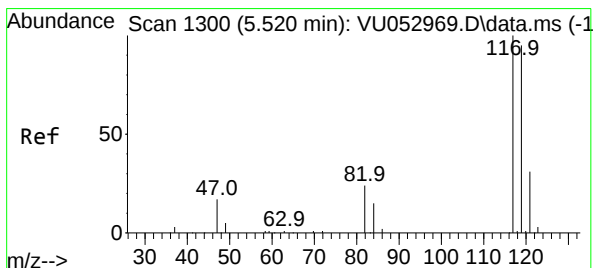
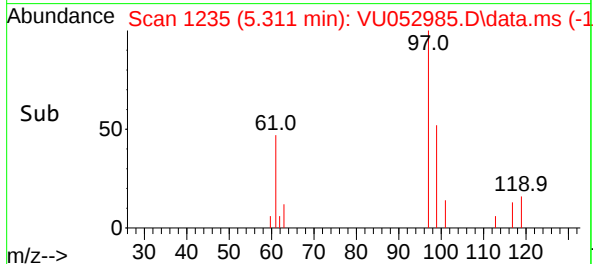
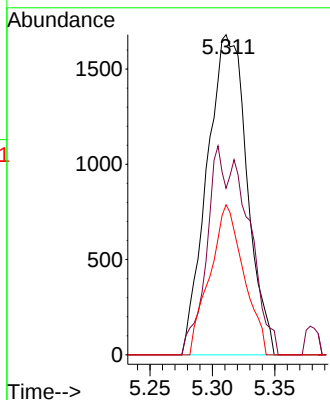
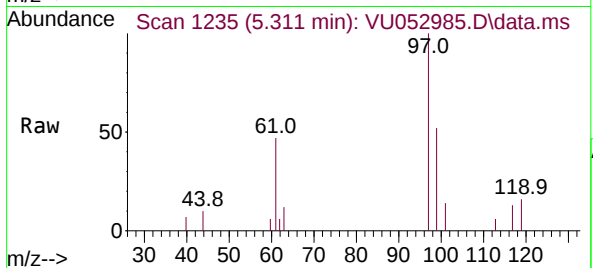
#29  
1,1,1-Trichloroethane  
Concen: 0.174 ug/L  
RT: 5.311 min Scan# 1235  
Delta R.T. -0.000 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

Instrument : MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT1-2023-01

Tgt Ion: 97 Resp: 3750  
Ion Ratio Lower Upper  
97 100  
99 31.6 52.4 78.6  
61 39.7 38.5 57.7

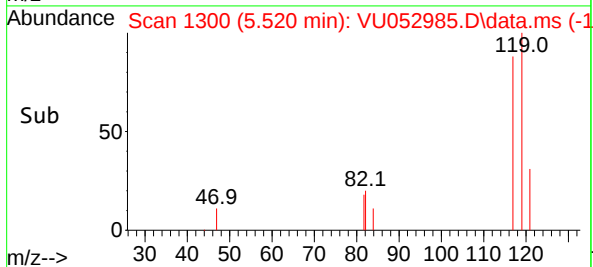
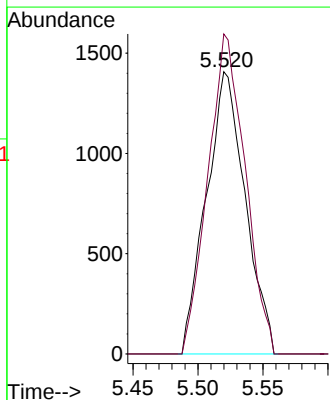
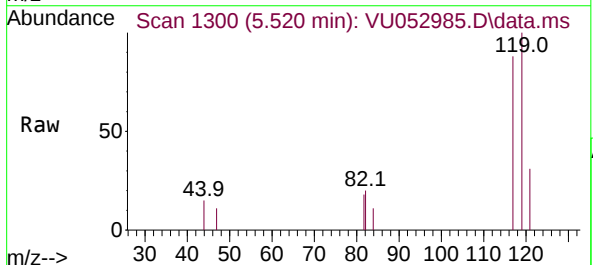
Manual Integrations  
APPROVED

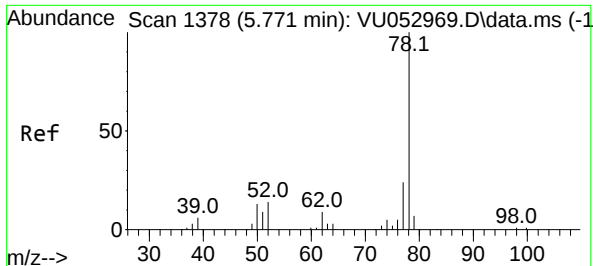
Reviewed By :John Carlone 02/07/2023  
Supervised By :Mahesh Dadoda 02/07/2023



#31  
Carbon tetrachloride  
Concen: 0.173 ug/L  
RT: 5.520 min Scan# 1300  
Delta R.T. -0.000 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

Tgt Ion:117 Resp: 2928  
Ion Ratio Lower Upper  
117 100  
119 108.7 77.8 116.8





#33

Benzene

Concen: 0.207 ug/L

RT: 5.777 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VU052985.D

Acq: 06 Feb 2023 17:30

Instrument :

MSVOA\_U

ClientSampleId :

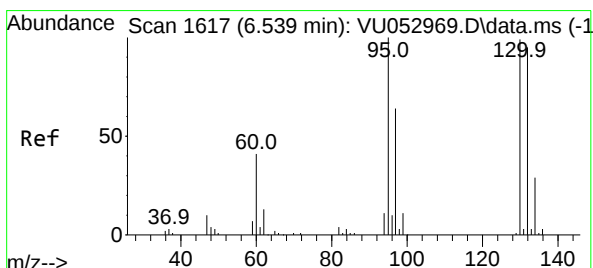
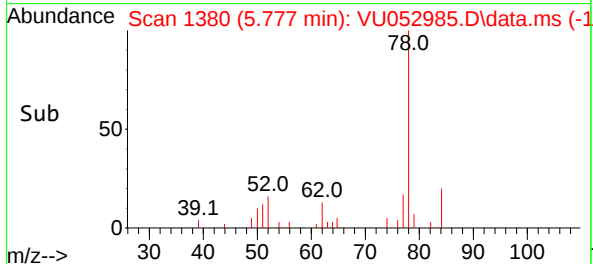
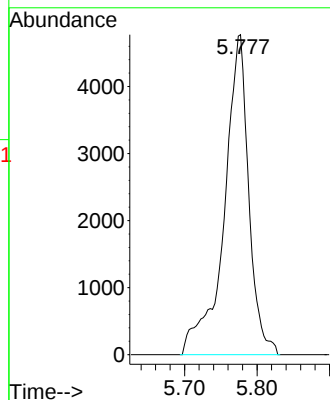
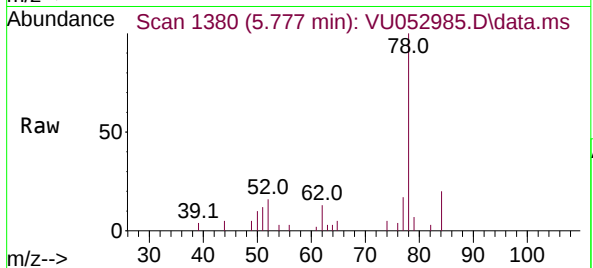
MDL-WATER-QT1-2023-01

Tgt Ion: 78 Resp: 1126

Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/07/2023

Supervised By :Mahesh Dadoda 02/07/2023



#34

Trichloroethene

Concen: 0.286 ug/L

RT: 6.539 min Scan# 1617

Delta R.T. 0.003 min

Lab File: VU052985.D

Acq: 06 Feb 2023 17:30

Tgt Ion: 95 Resp: 3679

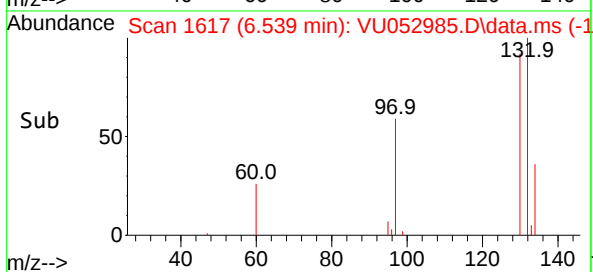
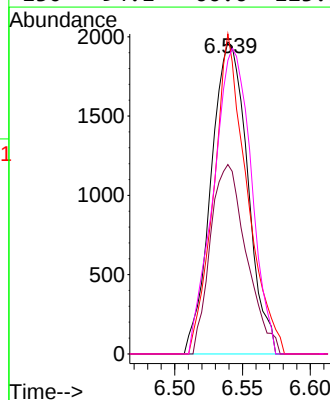
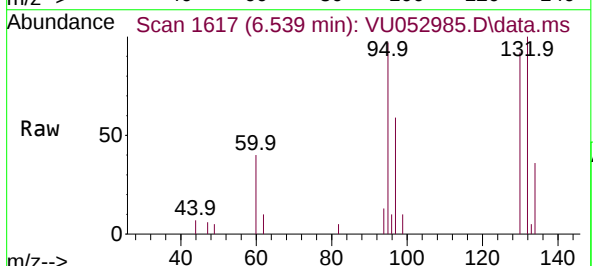
Ion Ratio Lower Upper

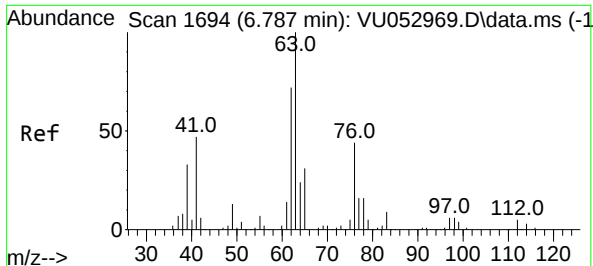
95 100

97 60.8 46.0 85.4

132 102.6 64.0 118.8

130 94.1 66.6 123.8





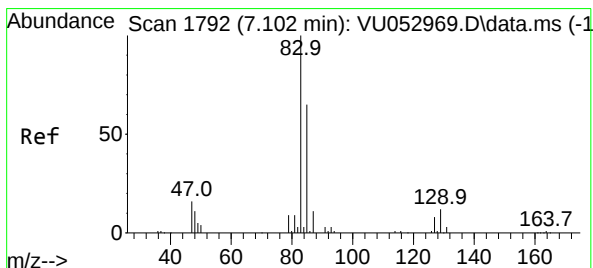
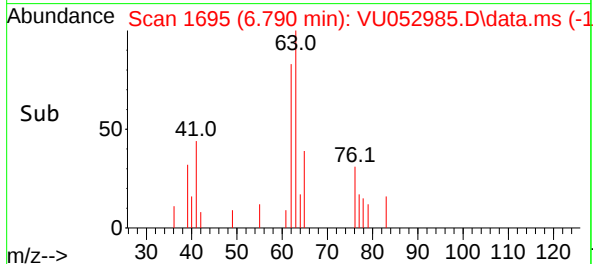
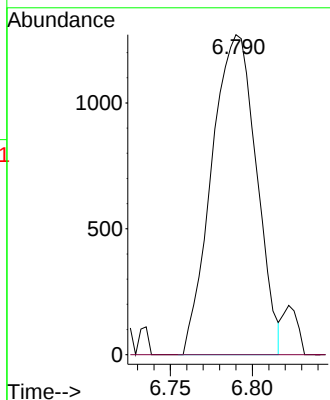
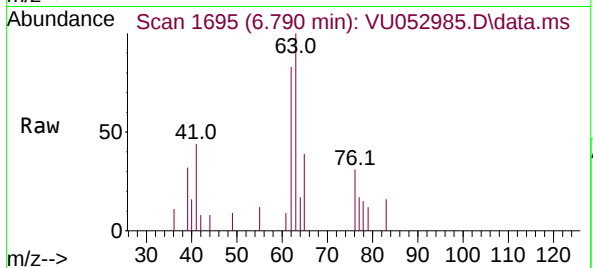
#37  
1,2-Dichloropropane  
Concen: 0.165 ug/L  
RT: 6.790 min Scan# 1694  
Delta R.T. 0.003 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT1-2023-01

Tgt Ion: 63 Resp: 2400  
Ion Ratio Lower Upper  
63 100  
112 0.0 2.9 4.3

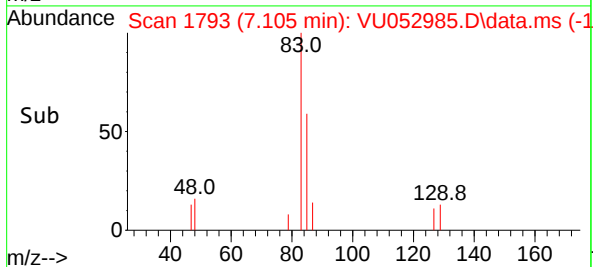
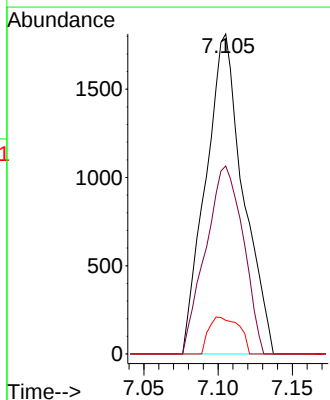
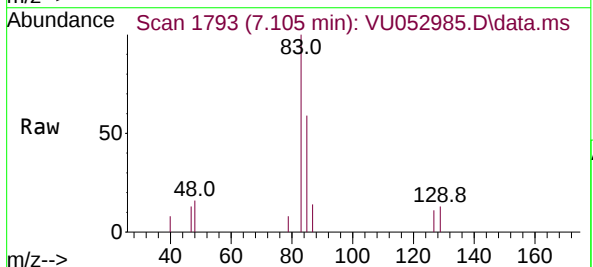
Manual Integrations  
APPROVED

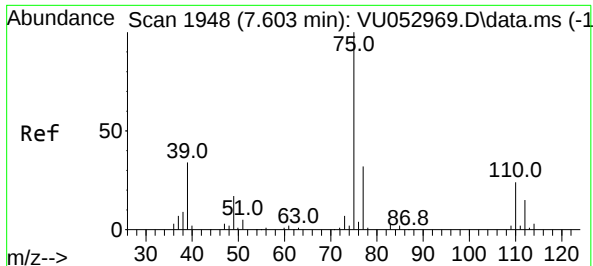
Reviewed By :John Carlone 02/07/2023  
Supervised By :Mahesh Dadoda 02/07/2023



#38  
Bromodichloromethane  
Concen: 0.185 ug/L  
RT: 7.105 min Scan# 1793  
Delta R.T. 0.003 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

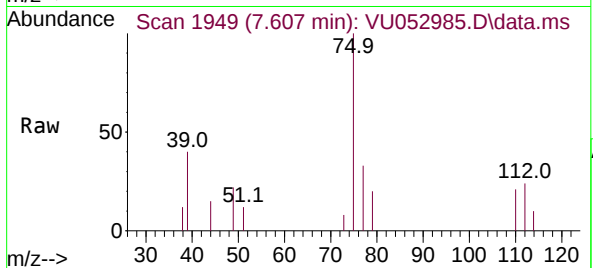
Tgt Ion: 83 Resp: 3173  
Ion Ratio Lower Upper  
83 100  
85 58.7 47.0 87.4  
127 10.5 6.9 10.3





#39  
cis-1,3-Dichloropropene  
Concen: 0.165 ug/L  
RT: 7.607 min Scan# 1948  
Delta R.T. 0.003 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

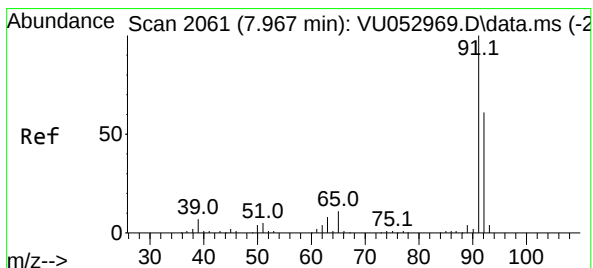
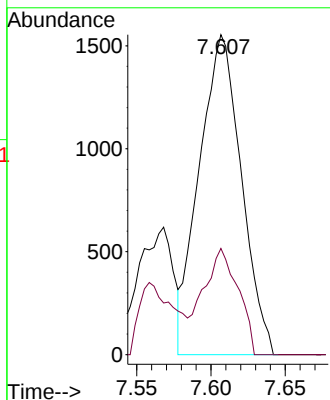
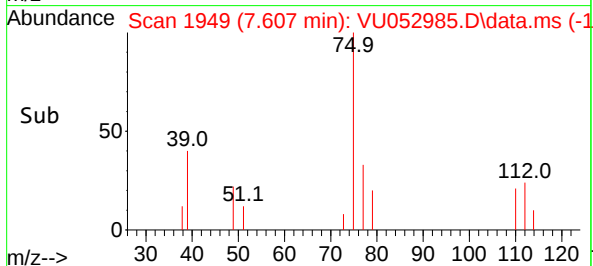
Instrument : MSVOA\_U  
ClientSampleId : MDL-WATER-QT1-2023-01



Tgt Ion: 75 Resp: 3058  
Ion Ratio Lower Upper  
75 100  
77 33.2 22.9 42.5

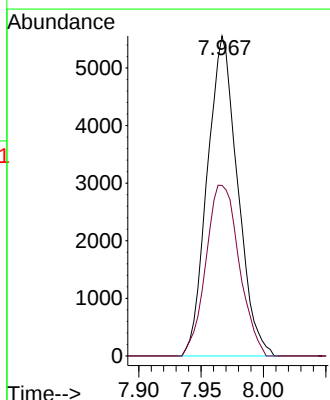
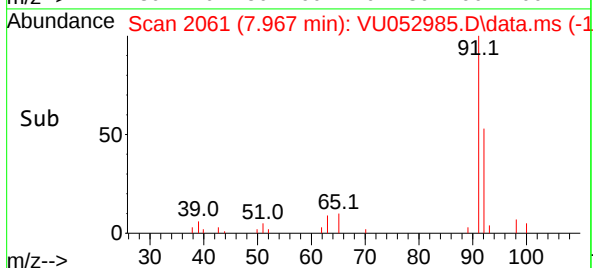
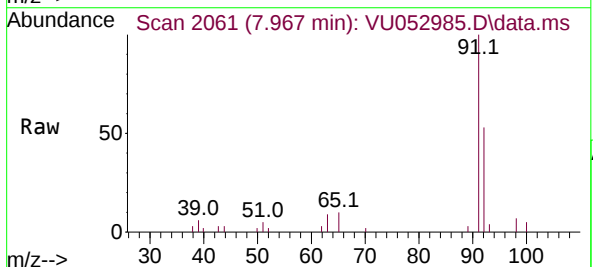
Manual Integrations  
APPROVED

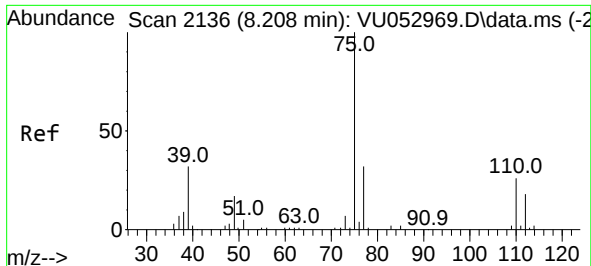
Reviewed By :John Carlone 02/07/2023  
Supervised By :Mahesh Dadoda 02/07/2023



#42  
Toluene  
Concen: 0.173 ug/L  
RT: 7.967 min Scan# 2061  
Delta R.T. -0.000 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

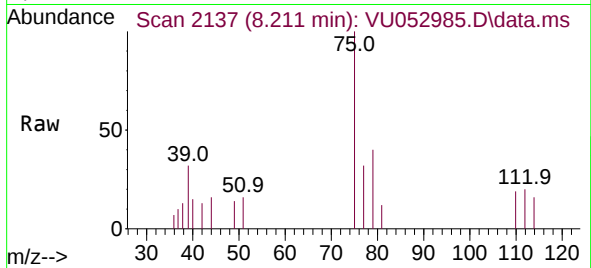
Tgt Ion: 91 Resp: 9388  
Ion Ratio Lower Upper  
91 100  
92 53.3 40.5 75.1





#44  
trans-1,3-Dichloropropene  
Concen: 0.166 ug/L  
RT: 8.211 min Scan# 2136  
Delta R.T. 0.006 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

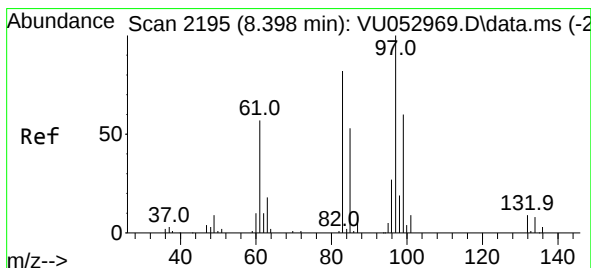
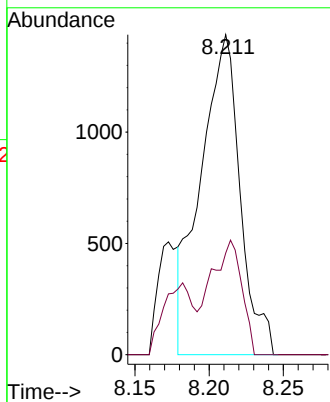
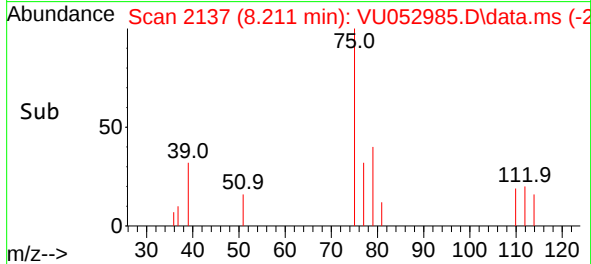
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT1-2023-01



Tgt Ion: 75 Resp: 2660  
Ion Ratio Lower Upper  
75 100  
77 31.8 22.3 41.5

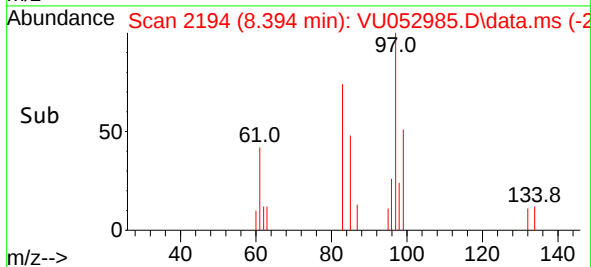
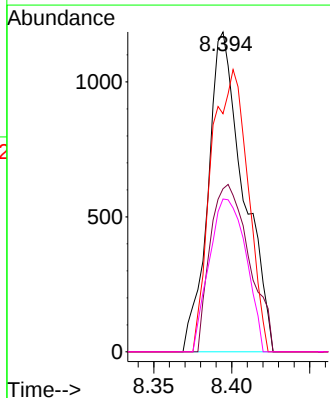
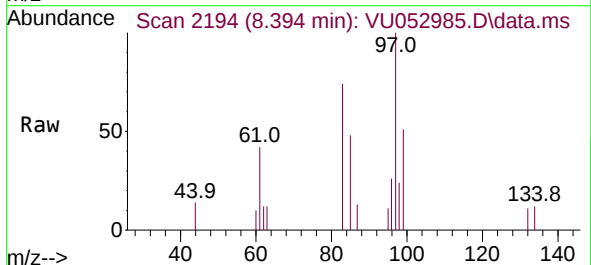
Manual Integrations  
APPROVED

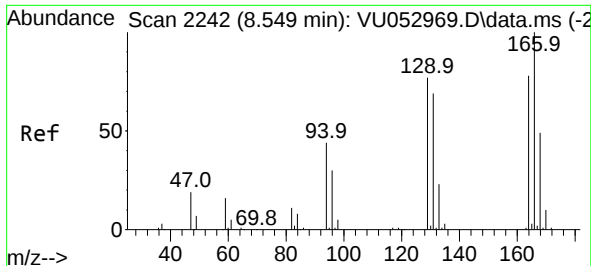
Reviewed By :John Carlone 02/07/2023  
Supervised By :Mahesh Dadoda 02/07/2023



#45  
1,1,2-Trichloroethane  
Concen: 0.204 ug/L  
RT: 8.394 min Scan# 2194  
Delta R.T. -0.000 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

Tgt Ion: 97 Resp: 1876  
Ion Ratio Lower Upper  
97 100  
99 51.0 44.8 83.2  
83 74.4 65.3 121.3  
85 47.8 42.6 79.0





#47

Tetrachloroethene

Concen: 0.303 ug/L

RT: 8.549 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU052985.D

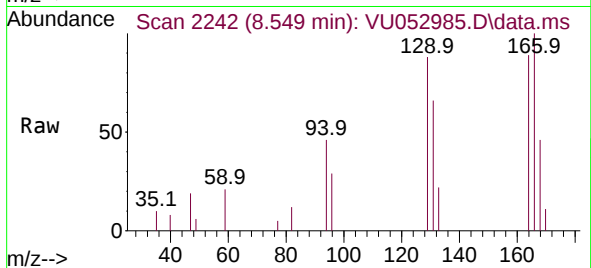
Acq: 06 Feb 2023 17:30

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-QT1-2023-01



Tgt Ion:164 Resp: 287

Ion Ratio Lower Upper

164 100

129 98.8 71.8 133.4

131 74.1 66.6 123.6

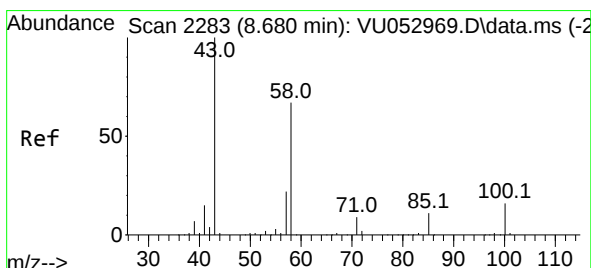
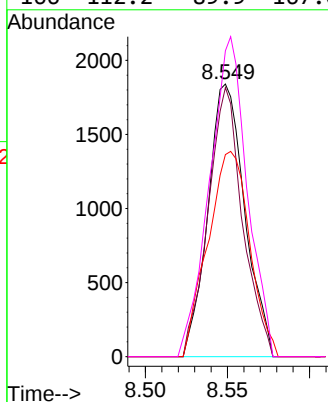
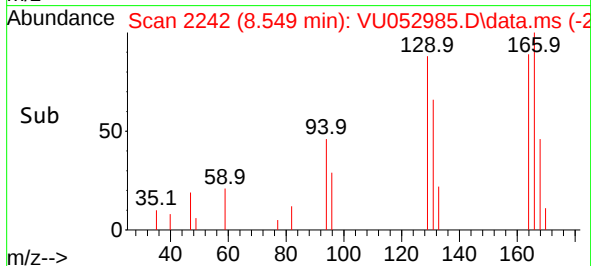
166 112.2 89.9 167.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/07/2023

Supervised By :Mahesh Dadoda 02/07/2023



#48

2-Hexanone

Concen: 2.640 ug/L

RT: 8.684 min Scan# 2284

Delta R.T. 0.003 min

Lab File: VU052985.D

Acq: 06 Feb 2023 17:30

Tgt Ion: 43 Resp: 16148

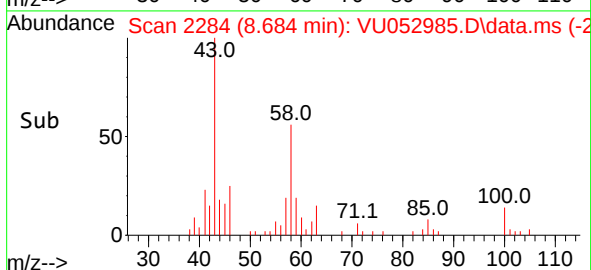
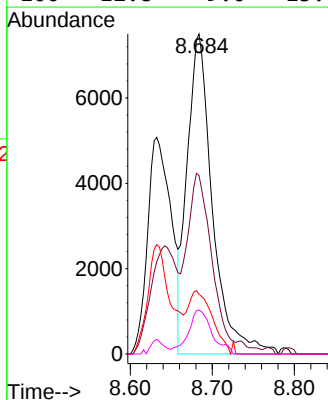
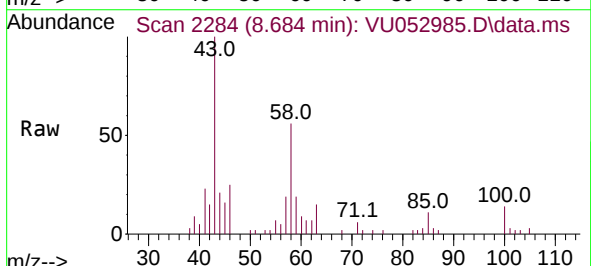
Ion Ratio Lower Upper

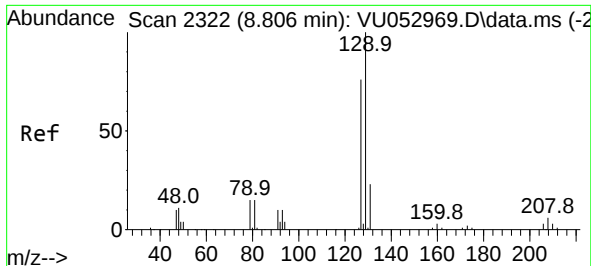
43 100

58 49.2 45.1 67.7

57 18.9 15.1 22.7

100 12.8 9.0 13.4





#49

Dibromochloromethane

Concen: 0.202 ug/L

RT: 8.806 min Scan# 2140

Delta R.T. -0.000 min

Lab File: VU052985.D

Acq: 06 Feb 2023 17:30

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-QT1-2023-01

Tgt Ion:129 Resp: 2140

Ion Ratio Lower Upper

129 100

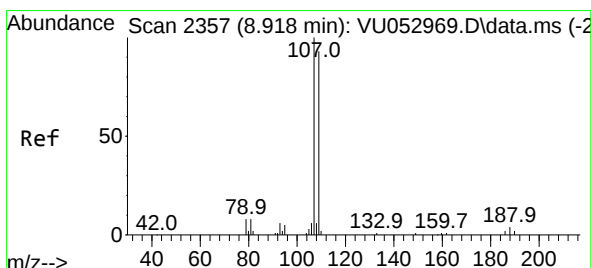
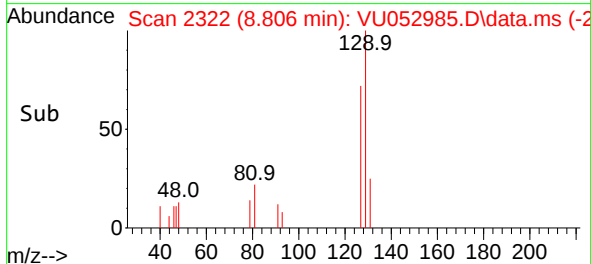
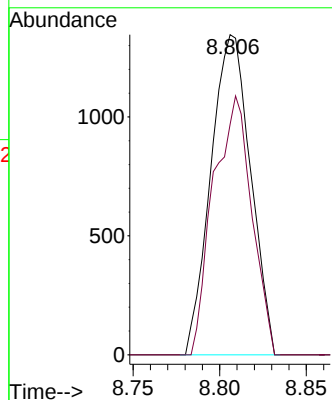
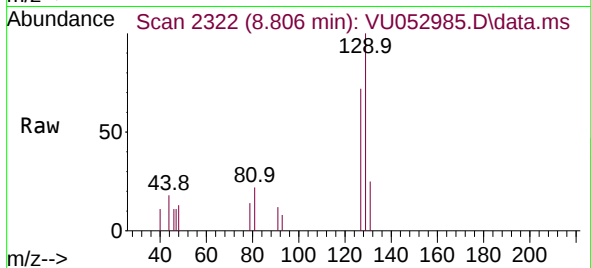
127 72.0 53.5 99.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/07/2023

Supervised By :Mahesh Dadoda 02/07/2023



#50

1,2-Dibromoethane

Concen: 0.189 ug/L

RT: 8.922 min Scan# 2358

Delta R.T. 0.003 min

Lab File: VU052985.D

Acq: 06 Feb 2023 17:30

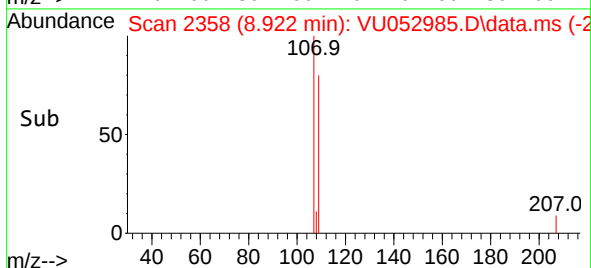
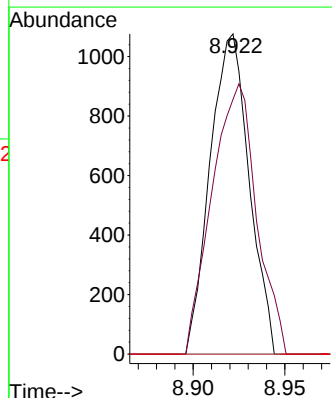
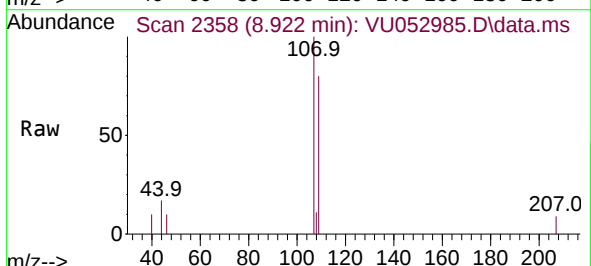
Tgt Ion:107 Resp: 1595

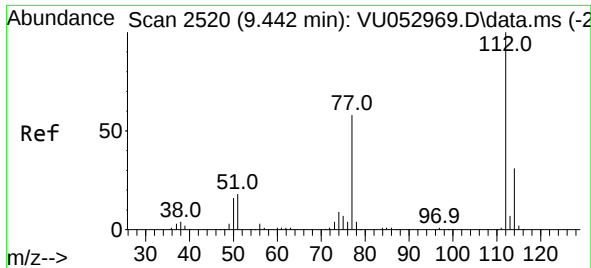
Ion Ratio Lower Upper

107 100

109 79.6 65.3 121.3

188 0.0 2.4 3.6#





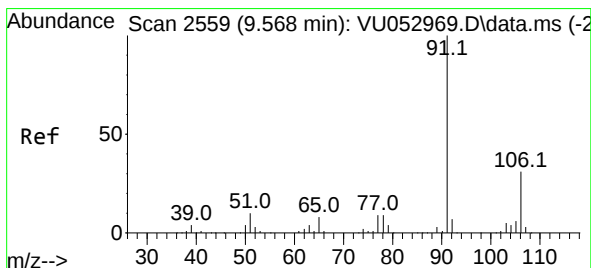
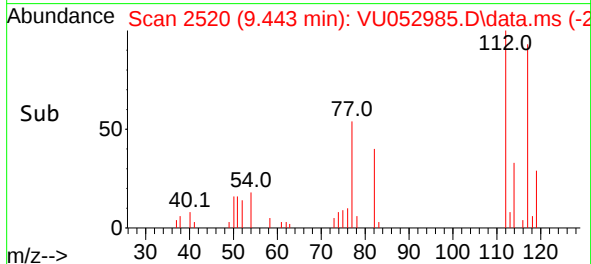
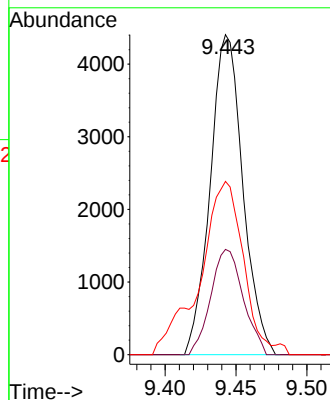
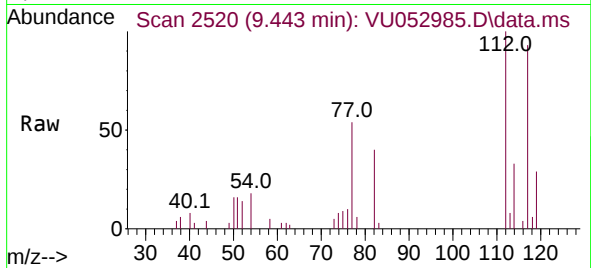
#51  
Chlorobenzene  
Concen: 0.209 ug/L  
RT: 9.443 min Scan# 2520  
Delta R.T. -0.000 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

Instrument : MSVOA\_U  
ClientSampleId : MDL-WATER-QT1-2023-01

Tgt Ion: 112 Resp: 706  
Ion Ratio Lower Upper  
112 100  
114 32.9 22.8 42.4  
77 54.1 50.2 75.4

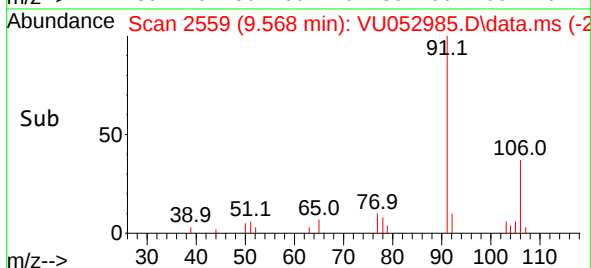
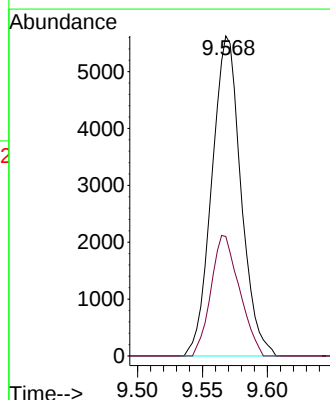
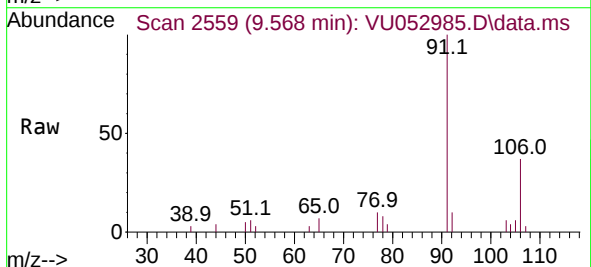
Manual Integrations  
APPROVED

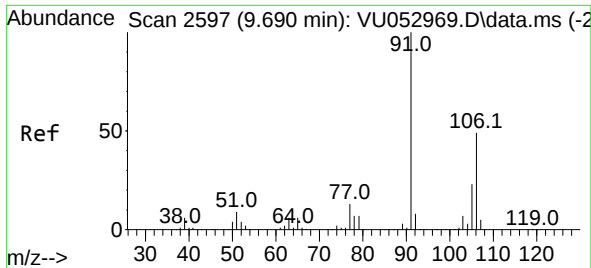
Reviewed By : John Carlone 02/07/2023  
Supervised By : Mahesh Dadoda 02/07/2023



#52  
Ethylbenzene  
Concen: 0.158 ug/L  
RT: 9.568 min Scan# 2559  
Delta R.T. -0.000 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

Tgt Ion: 91 Resp: 8750  
Ion Ratio Lower Upper  
91 100  
106 37.4 21.1 39.3





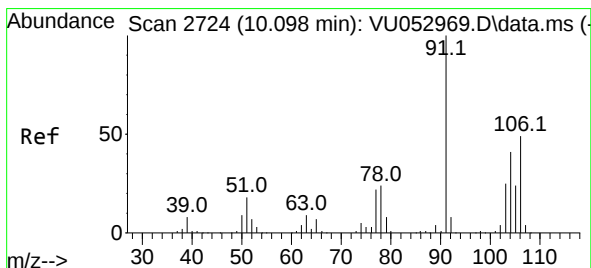
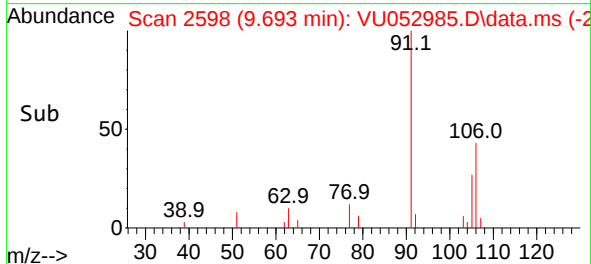
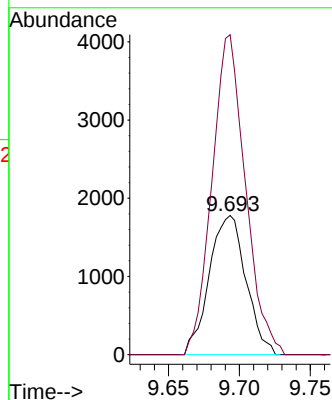
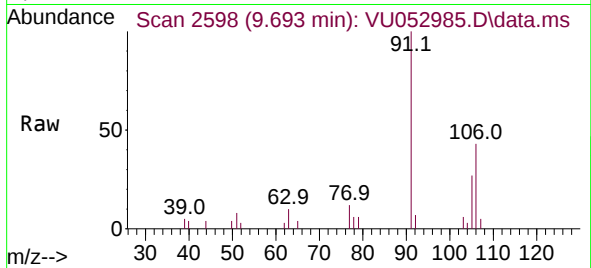
#53  
m,p-Xylene  
Concen: 0.153 ug/L  
RT: 9.693 min Scan# 2597  
Delta R.T. 0.003 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT1-2023-01

Tgt Ion:106 Resp: 320  
Ion Ratio Lower Upper  
106 100  
91 230.0 144.3 267.9

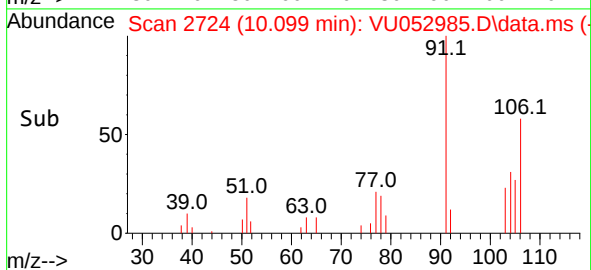
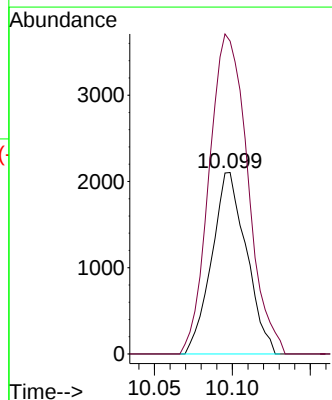
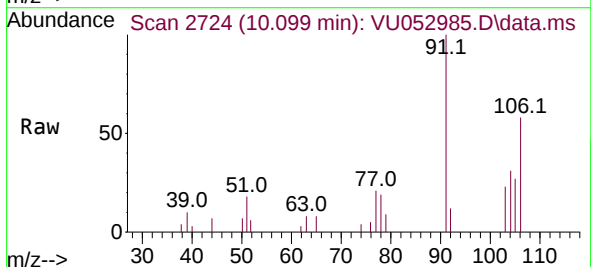
Manual Integrations  
APPROVED

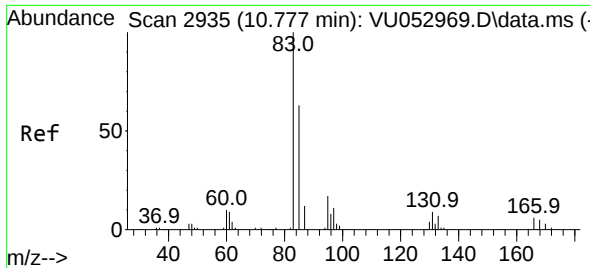
Reviewed By :John Carlone 02/07/2023  
Supervised By :Mahesh Dadoda 02/07/2023



#54  
o-Xylene  
Concen: 0.163 ug/L  
RT: 10.099 min Scan# 2724  
Delta R.T. -0.000 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

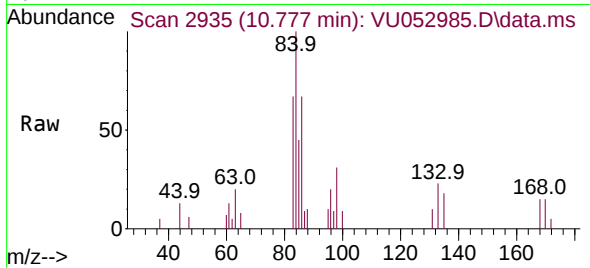
Tgt Ion:106 Resp: 3252  
Ion Ratio Lower Upper  
106 100  
91 172.3 148.7 276.1





#57  
1,1,2,2-Tetrachloroethane  
Concen: 0.200 ug/L  
RT: 10.777 min Scan# 2935  
Delta R.T. -0.000 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

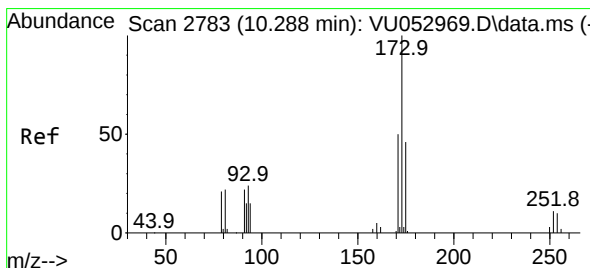
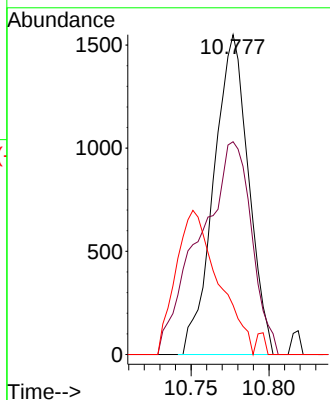
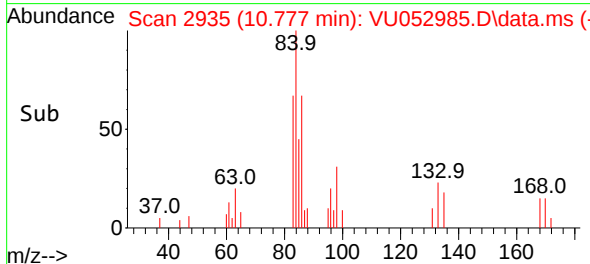
Instrument : MSVOA\_U  
ClientSampleId : MDL-WATER-QT1-2023-01



Tgt Ion: 83 Resp: 240  
Ion Ratio Lower Upper  
83 100  
85 66.5 43.7 81.1  
131 15.4 7.0 10.6

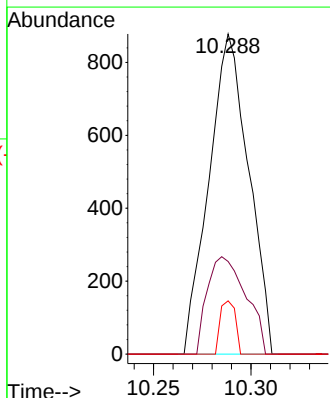
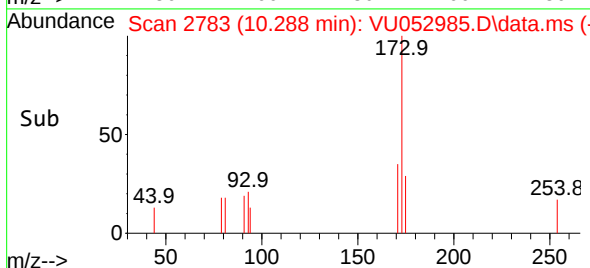
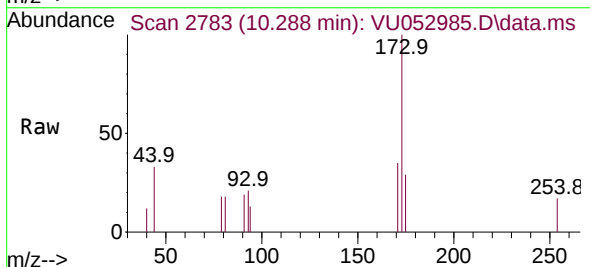
Manual Integrations  
APPROVED

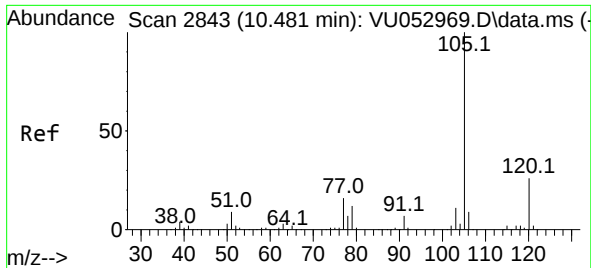
Reviewed By :John Carlone 02/07/2023  
Supervised By :Mahesh Dadoda 02/07/2023



#59  
Bromoform  
Concen: 0.257 ug/L  
RT: 10.288 min Scan# 2783  
Delta R.T. -0.000 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

Tgt Ion:173 Resp: 1242  
Ion Ratio Lower Upper  
173 100  
175 29.6 38.2 57.4#  
254 6.3 7.3 10.9#





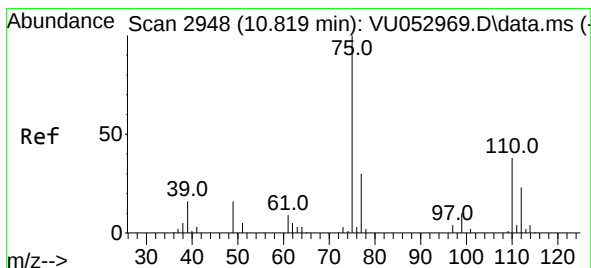
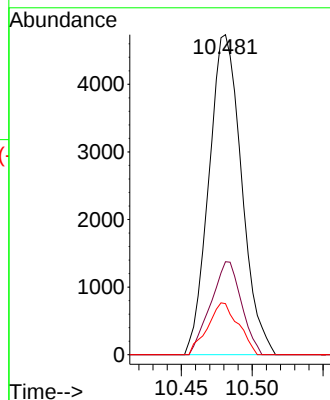
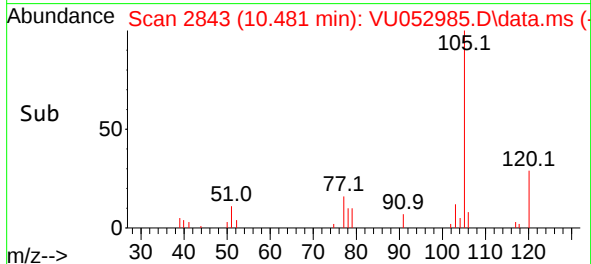
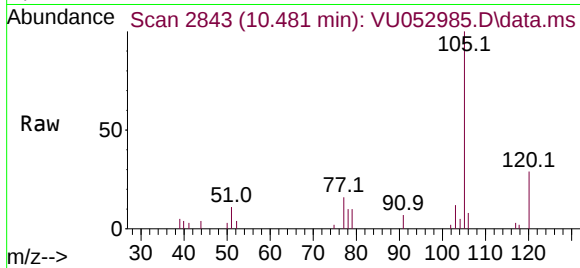
#60  
Isopropylbenzene  
Concen: 0.172 ug/L  
RT: 10.481 min Scan# 2843  
Delta R.T. -0.000 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

Instrument : MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT1-2023-01

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 105   | Resp: | 7590 |
| Ion Ratio | Lower | Upper |      |
| 105       | 100   |       |      |
| 120       | 27.2  | 20.4  | 30.6 |
| 77        | 15.2  | 13.2  | 19.8 |

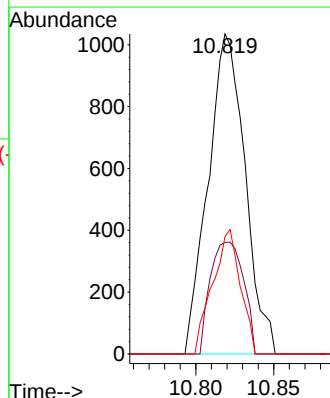
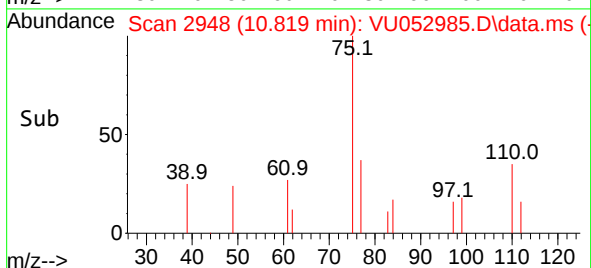
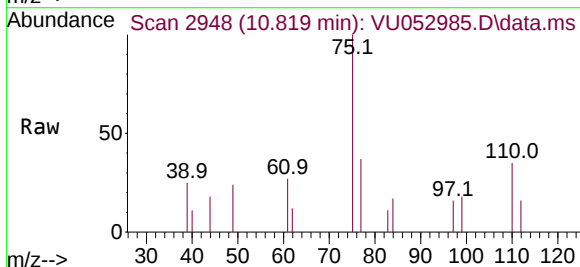
Manual Integrations  
APPROVED

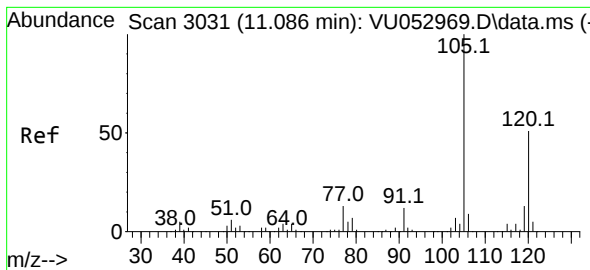
Reviewed By :John Carlone 02/07/2023  
Supervised By :Mahesh Dadoda 02/07/2023



#61  
1,2,3-Trichloropropane  
Concen: 0.236 ug/L  
RT: 10.819 min Scan# 2948  
Delta R.T. -0.000 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 75    | Resp: | 1703 |
| Ion Ratio | Lower | Upper |      |
| 75        | 100   |       |      |
| 110       | 31.4  | 27.2  | 40.8 |
| 77        | 29.2  | 24.0  | 36.0 |





#62

1,3,5-Trimethylbenzene

Concen: 0.168 ug/L

RT: 11.086 min Scan# 3031

Delta R.T. -0.000 min

Lab File: VU052985.D

Acq: 06 Feb 2023 17:30

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-QT1-2023-01

Tgt Ion:105 Resp: 588

Ion Ratio Lower Upper

105 100

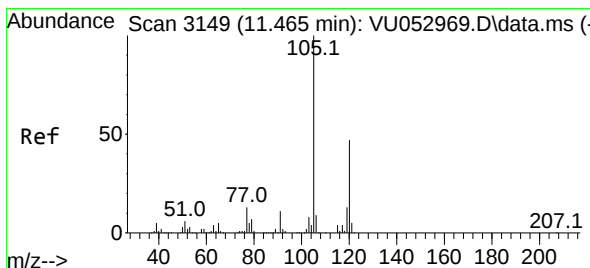
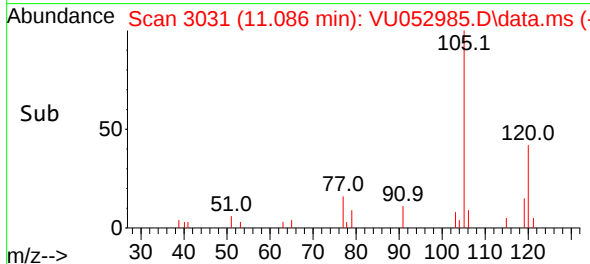
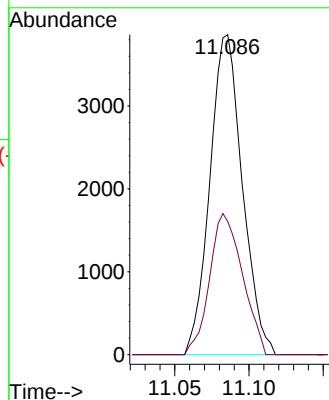
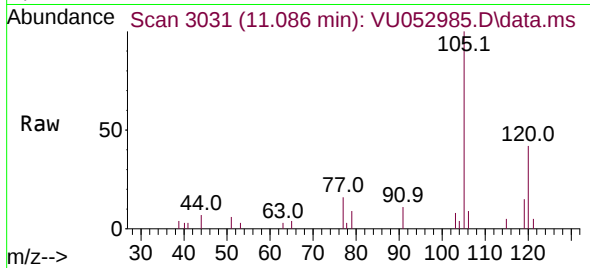
120 44.6 39.0 58.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/07/2023

Supervised By :Mahesh Dadoda 02/07/2023



#63

1,2,4-Trimethylbenzene

Concen: 0.154 ug/L

RT: 11.465 min Scan# 3149

Delta R.T. 0.003 min

Lab File: VU052985.D

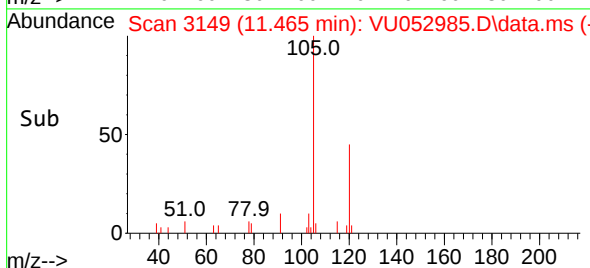
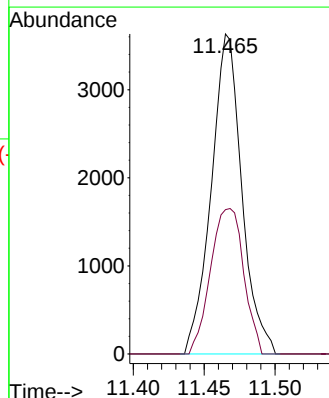
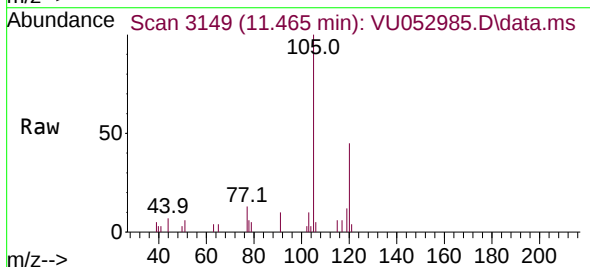
Acq: 06 Feb 2023 17:30

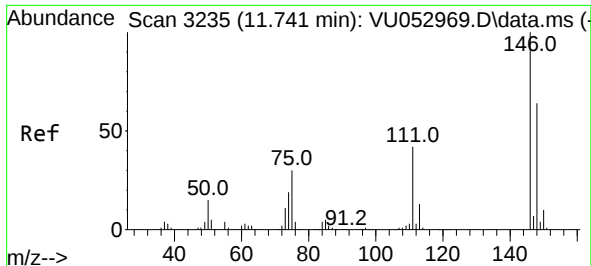
Tgt Ion:105 Resp: 5446

Ion Ratio Lower Upper

105 100

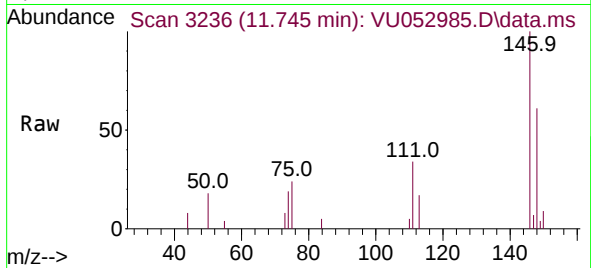
120 49.3 35.9 53.9





#64  
1,3-Dichlorobenzene  
Concen: 0.216 ug/L  
RT: 11.745 min Scan# 3235  
Delta R.T. 0.003 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

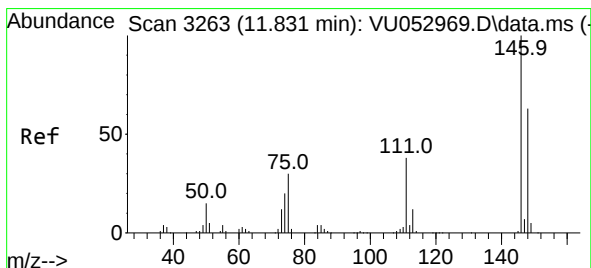
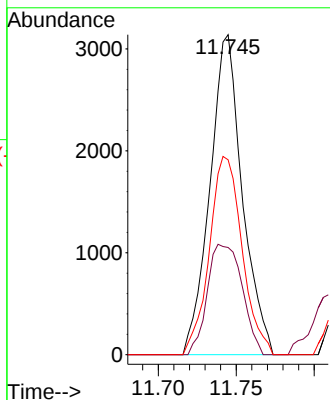
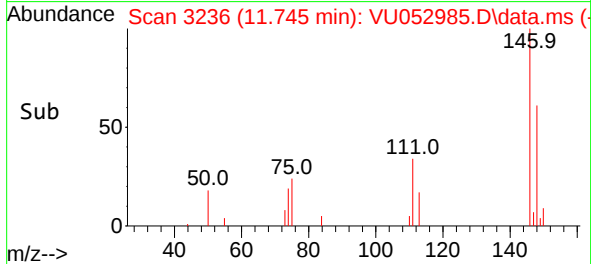
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT1-2023-01



Tgt Ion:146 Resp: 4529  
Ion Ratio Lower Upper  
146 100  
111 33.5 29.4 54.6  
148 60.9 44.5 82.7

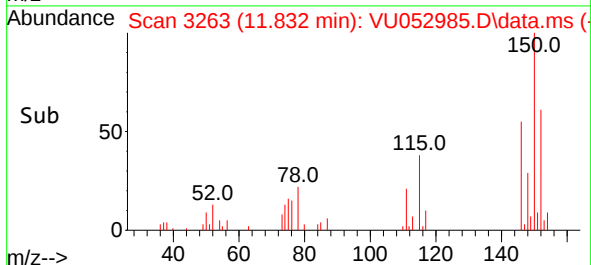
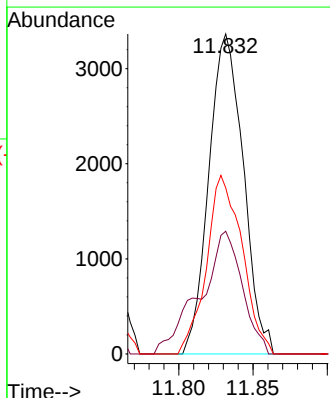
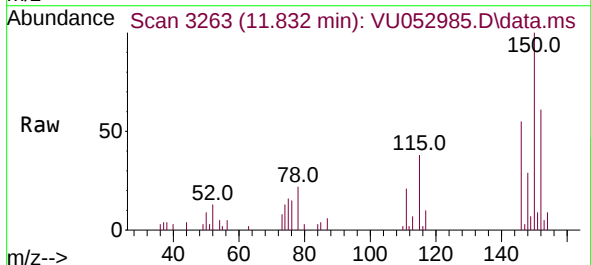
Manual Integrations  
APPROVED

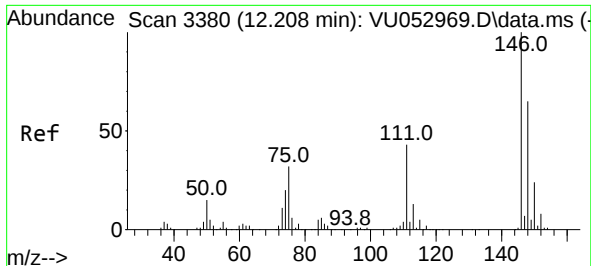
Reviewed By :John Carlone 02/07/2023  
Supervised By :Mahesh Dadoda 02/07/2023



#65  
1,4-Dichlorobenzene  
Concen: 0.254 ug/L  
RT: 11.832 min Scan# 3263  
Delta R.T. -0.000 min  
Lab File: VU052985.D  
Acq: 06 Feb 2023 17:30

Tgt Ion:146 Resp: 5425  
Ion Ratio Lower Upper  
146 100  
111 38.3 28.1 52.3  
148 51.9 44.7 83.1





#67

1,2-Dichlorobenzene

Concen: 0.254 ug/L

RT: 12.208 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU052985.D

Acq: 06 Feb 2023 17:30

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-QT1-2023-01

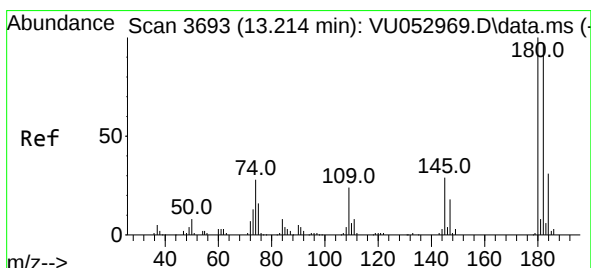
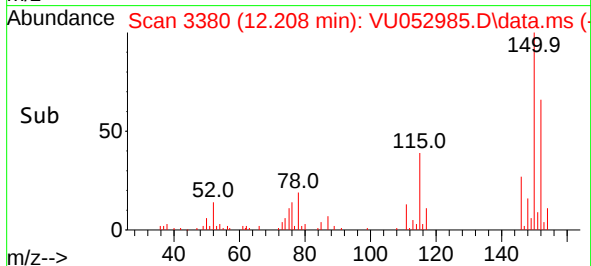
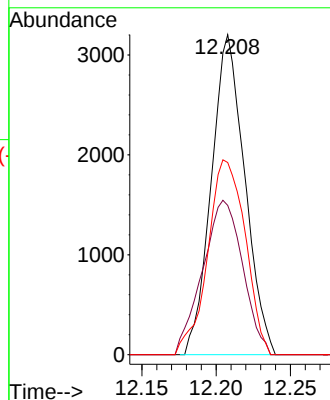
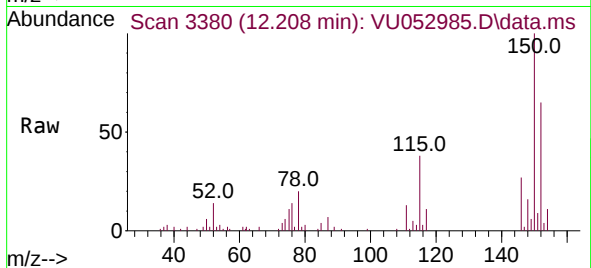
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 500       |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 46.6  | 33.8 50.6 |
| 148         | 60.1  | 51.0 76.4 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/07/2023

Supervised By :Mahesh Dadoda 02/07/2023



#69

1,3,5-Trichlorobenzene

Concen: 0.237 ug/L

RT: 13.221 min Scan# 3695

Delta R.T. 0.006 min

Lab File: VU052985.D

Acq: 06 Feb 2023 17:30

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 3692       |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 93.2  | 75.1 112.7 |
| 184         | 31.6  | 23.6 35.4  |
| 145         | 30.8  | 24.1 36.1  |

