

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX112723\  
 Data File : VX039035.D  
 Acq On : 27 Nov 2023 12:40  
 Operator : JC/MD  
 Sample : 04699-08 5.0PPB  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LOQ-WATER-02-QT4-2023

Quant Time: Nov 28 01:12:03 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X112423W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Nov 27 03:22:25 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 11/28/2023  
 Supervised By : Mahesh Dadoda 11/28/2023

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Bromochloromethane        | 4.897          | 128  | 10725               | 30.000 | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.757          | 114  | 88125               | 30.000 | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 10.055         | 117  | 110425              | 30.000 | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 27) 1,2-Dichloroethane-d4    | 5.952          | 65   | 47679               | 32.495 | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 108.333% |        |        |          |
| 60) 4-Bromofluorobenzene     | 11.079         | 95   | 71092               | 29.476 | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 98.267%  |        |        |          |
| 63) Toluene-d8               | 8.647          | 98   | 133744              | 30.634 | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 102.100% |        |        |          |
| Target Compounds             |                |      |                     |        |        |          |
|                              |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 8680                | 5.407  | ug/l   | 96       |
| 3) Chloromethane             | 1.294          | 50   | 10168               | 5.532  | ug/l   | 98       |
| 4) Vinyl Chloride            | 1.374          | 62   | 10107               | 5.447  | ug/l   | 97       |
| 5) Bromomethane              | 1.605          | 94   | 6870m               | 6.053  | ug/l   |          |
| 6) Chloroethane              | 1.685          | 64   | 6129                | 5.672  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 14474               | 5.652  | ug/l   | 92       |
| 8) Diethyl Ether             | 2.130          | 74   | 5336                | 5.428  | ug/l   | 90       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 7758                | 5.361  | ug/l   | 97       |
| 10) 1,1-Dichloroethene       | 2.319          | 96   | 7707                | 5.283  | ug/l   | 90       |
| 11) Methyl Iodide            | 2.453          | 142  | 8372                | 5.237  | ug/l   | 92       |
| 12) Methyl Acetate           | 2.703          | 43   | 23333               | 5.128  | ug/l   | 100      |
| 13) Acrolein                 | 2.233          | 56   | 13241               | 33.220 | ug/l   | 97       |
| 14) Acrylonitrile            | 3.062          | 53   | 30991               | 27.849 | ug/l   | 97       |
| 15) Acetone                  | 2.373          | 58   | 16468               | 40.711 | ug/l   | 99       |
| 16) Carbon Disulfide         | 2.508          | 76   | 23956               | 5.422  | ug/l   | 96       |
| 17) Allyl chloride           | 2.660          | 41   | 16071               | 5.549  | ug/l   | 94       |
| 18) Methylene Chloride       | 2.788          | 84   | 9790                | 5.661  | ug/l   | 91       |
| 19) trans-1,2-Dichloroethene | 3.087          | 96   | 8992                | 5.450  | ug/l   | 86       |
| 20) Diisopropyl ether        | 3.757          | 45   | 29716               | 5.392  | ug/l   | 98       |
| 21) 1,1-Dichloroethane       | 3.611          | 63   | 17019               | 5.554  | ug/l   | 98       |
| 22) cis-1,2-Dichloroethene   | 4.489          | 96   | 10099               | 5.282  | ug/l   | 97       |
| 23) tert-Butyl Alcohol       | 2.953          | 59   | 18198               | 29.539 | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 3.111          | 73   | 29083               | 5.412  | ug/l   | 94       |
| 25) Chloroform               | 5.086          | 83   | 16436m              | 5.344  | ug/l   |          |
| 26) Cyclohexane              | 5.458          | 56   | 15791               | 5.694  | ug/l # | 96       |
| 29) 1,1-Dichloropropene      | 5.690          | 75   | 12376               | 5.010  | ug/l   | 98       |
| 30) 2-Butanone               | 4.550          | 43   | 58906               | 31.671 | ug/l # | 95       |
| 31) 2,2-Dichloropropane      | 4.471          | 77   | 14871               | 5.265  | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 5.379          | 97   | 15047               | 5.270  | ug/l   | 96       |
| 33) Carbon Tetrachloride     | 5.678          | 117  | 11317               | 4.705  | ug/l   | 96       |
| 34) Benzene                  | 6.031          | 78   | 36278               | 5.041  | ug/l # | 95       |
| 35) Methacrylonitrile        | 4.916          | 41   | 7808                | 4.739  | ug/l   | 95       |
| 36) 1,2-Dichloroethane       | 6.092          | 62   | 13787               | 5.221  | ug/l   | 96       |
| 37) Trichloroethene          | 7.123          | 130  | 9193                | 5.033  | ug/l   | 92       |
| 38) Methylcyclohexane        | 7.379          | 83   | 16411               | 5.332  | ug/l   | 97       |
| 39) 1,2-Dichloropropane      | 7.427          | 63   | 9693                | 5.107  | ug/l   | 95       |
| 40) Dibromomethane           | 7.580          | 93   | 6544                | 4.880  | ug/l   | 95       |
| 41) Bromodichloromethane     | 7.818          | 83   | 12898               | 5.007  | ug/l # | 96       |
| 42) Vinyl Acetate            | 3.721          | 43   | 114491              | 25.844 | ug/l   | 100      |

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 Sample : 04699-08 5.0PPB  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LOQ-WATER-02-QT4-2023

Quant Time: Nov 28 01:12:03 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X112423W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Nov 27 03:22:25 2023  
 Response via : Initial Calibration

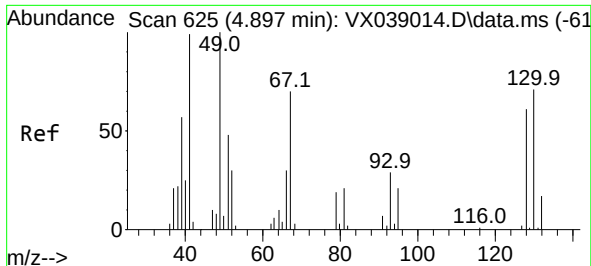
Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/28/2023  
 Supervised By : Mahesh Dadoda 11/28/2023

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 43) Ethyl Acetate             | 4.714  | 43   | 17013    | 5.317  | ug/l  | 98       |
| 44) Isopropyl Acetate         | 6.336  | 43   | 26459    | 5.245  | ug/l  | 100      |
| 45) 1,4-Dioxane               | 7.659  | 88   | 4734     | 91.930 | ug/l  | 94       |
| 46) Methyl methacrylate       | 7.690  | 41   | 14326    | 4.967  | ug/l  | 99       |
| 47) n-amyl Acetate            | 10.841 | 43   | 19866    | 4.653  | ug/l  | 99       |
| 48) t-1,3-Dichloropropene     | 8.976  | 75   | 14498    | 4.853  | ug/l  | 96       |
| 49) cis-1,3-Dichloropropene   | 8.366  | 75   | 15117    | 4.906  | ug/l  | 94       |
| 50) 1,1,2-Trichloroethane     | 9.153  | 97   | 9195     | 5.048  | ug/l  | 98       |
| 51) Ethyl methacrylate        | 9.116  | 69   | 11264    | 4.940  | ug/l  | 96       |
| 52) 1,3-Dichloropropane       | 9.305  | 76   | 16194    | 5.184  | ug/l  | 99       |
| 53) Dibromochloromethane      | 9.518  | 129  | 9246     | 4.726  | ug/l  | 100      |
| 54) 1,2-Dibromoethane         | 9.610  | 107  | 10122    | 5.067  | ug/l  | 93       |
| 55) 2-Chloroethyl vinyl ether | 8.238  | 63   | 36018    | 24.920 | ug/l  | 99       |
| 56) Bromoform                 | 10.799 | 173  | 6343     | 4.492  | ug/l  | 99       |
| 58) 4-Methyl-2-Pentanone      | 8.574  | 43   | 85227    | 25.451 | ug/l  | 100      |
| 59) 2-Hexanone                | 9.427  | 43   | 78695    | 28.630 | ug/l  | 99       |
| 61) Tetrachloroethene         | 9.269  | 164  | 7291     | 5.078  | ug/l  | 95       |
| 62) Toluene                   | 8.714  | 91   | 40788    | 5.203  | ug/l  | 98       |
| 64) Chlorobenzene             | 10.079 | 112  | 23739    | 4.978  | ug/l  | 99       |
| 65) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 8417     | 4.901  | ug/l  | 98       |
| 66) Ethyl Benzene             | 10.195 | 91   | 44432    | 4.977  | ug/l  | 97       |
| 67) m/p-Xylenes               | 10.299 | 106  | 32908    | 9.976  | ug/l  | 99       |
| 68) o-Xylene                  | 10.640 | 106  | 16222    | 5.077  | ug/l  | 100      |
| 69) Styrene                   | 10.659 | 104  | 22770    | 4.815  | ug/l  | 99       |
| 70) Isopropylbenzene          | 10.963 | 105  | 43018    | 5.032  | ug/l  | 97       |
| 71) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 15751    | 4.935  | ug/l  | 99       |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 13459m   | 4.984  | ug/l  |          |
| 73) Bromobenzene              | 11.195 | 156  | 9422     | 4.841  | ug/l  | 98       |
| 74) n-propylbenzene           | 11.305 | 91   | 52022    | 4.966  | ug/l  | 99       |
| 75) 2-Chlorotoluene           | 11.360 | 91   | 30846    | 5.019  | ug/l  | 97       |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 36312    | 4.930  | ug/l  | 98       |
| 77) t-1,4-Dichloro-2-butene   | 11.018 | 75   | 4833     | 4.516  | ug/l  | 96       |
| 78) 4-Chlorotoluene           | 11.457 | 91   | 35982    | 4.980  | ug/l  | 98       |
| 79) tert-butylbenzene         | 11.713 | 119  | 34789    | 4.967  | ug/l  | 99       |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 36013    | 4.886  | ug/l  | 97       |
| 81) sec-Butylbenzene          | 11.890 | 105  | 44602    | 5.038  | ug/l  | 98       |
| 82) p-Isopropyltoluene        | 12.012 | 119  | 36658    | 4.885  | ug/l  | 98       |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 18617    | 4.998  | ug/l  | 97       |
| 84) 1,4-Dichlorobenzene       | 12.042 | 146  | 18132    | 4.744  | ug/l  | 97       |
| 85) n-Butylbenzene            | 12.335 | 91   | 35958    | 4.853  | ug/l  | 97       |
| 86) Hexachloroethane          | 12.536 | 117  | 6193     | 4.356  | ug/l  | 95       |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 17530    | 4.894  | ug/l  | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 3857     | 4.725  | ug/l  | 97       |
| 89) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 10903    | 4.591  | ug/l  | 95       |
| 90) Hexachlorobutadiene       | 13.725 | 225  | 3912     | 4.613  | ug/l  | 96       |
| 91) Naphthalene               | 13.774 | 128  | 40738    | 4.651  | ug/l  | 99       |
| 92) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 10651    | 4.630  | ug/l  | 96       |

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





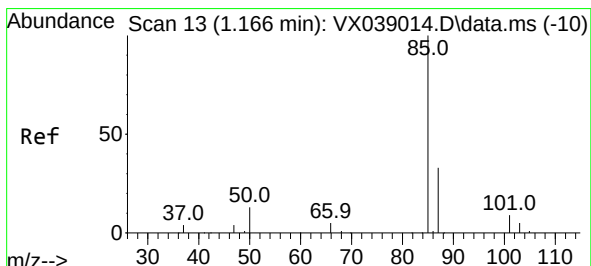
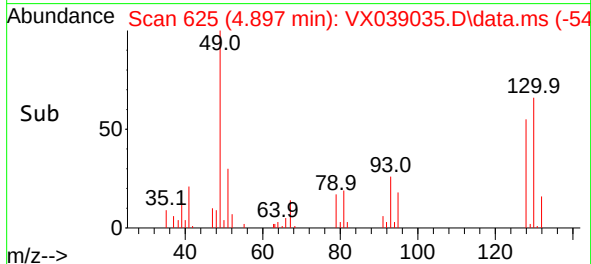
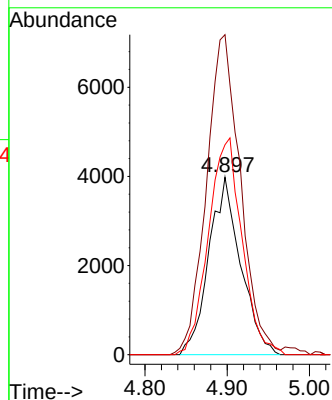
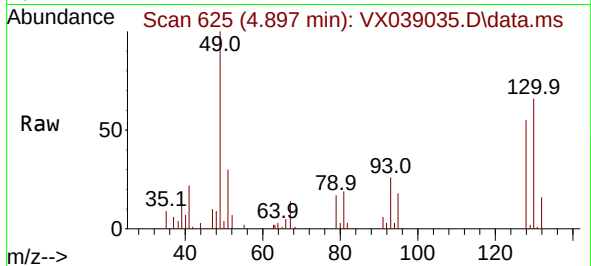
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Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.897 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Instrument :  
MSVOA\_X  
ClientSampleId :  
LOQ-WATER-02-QT4-2023

Tgt Ion:128 Resp: 10725  
Ion Ratio Lower Upper  
128 100  
49 192.2 0.0 444.0  
130 129.3 0.0 297.8

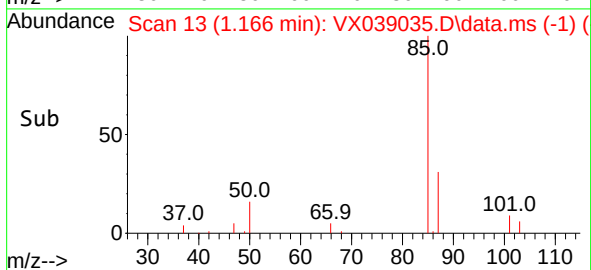
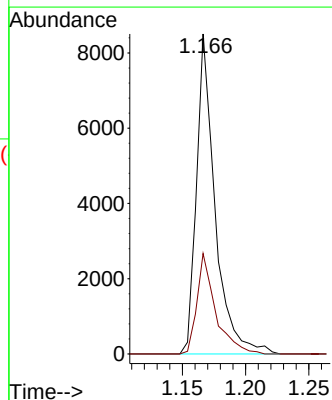
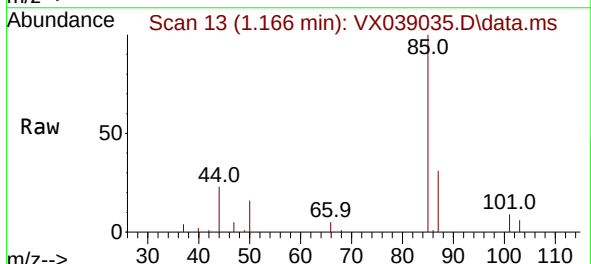
Manual Integrations  
APPROVED

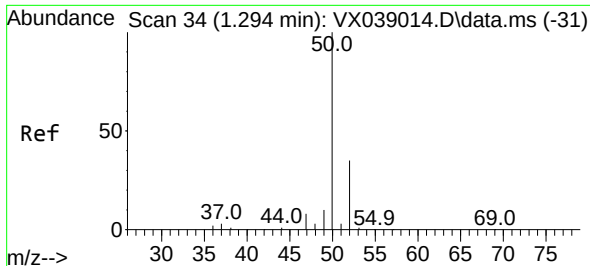
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



#2  
Dichlorodifluoromethane  
Concen: 5.407 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

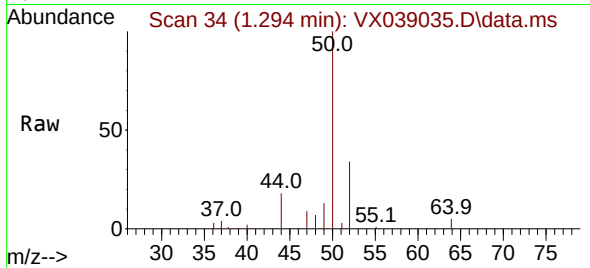
Tgt Ion: 85 Resp: 8680  
Ion Ratio Lower Upper  
85 100  
87 31.4 16.7 50.1





#3  
Chloromethane  
Concen: 5.532 ug/l  
RT: 1.294 min Scan# 34  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

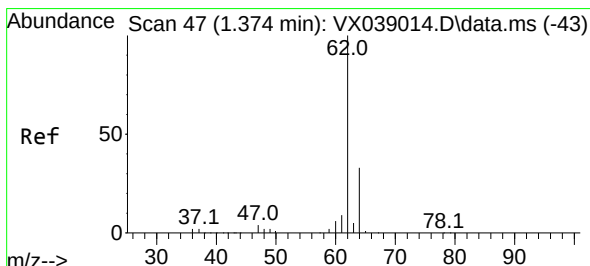
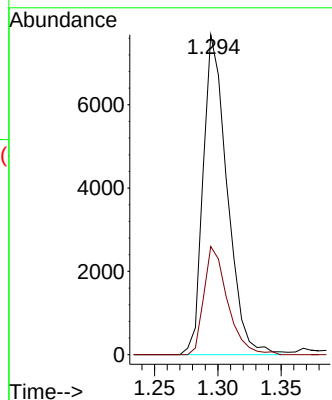
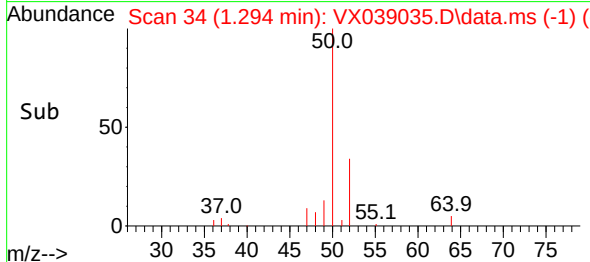
Instrument : MSVOA\_X  
ClientSampleId : LOQ-WATER-02-QT4-2023



Tgt Ion: 50 Resp: 1016  
Ion Ratio Lower Upper  
50 100  
52 33.8 27.8 41.8

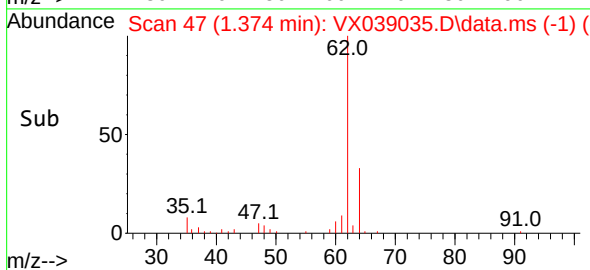
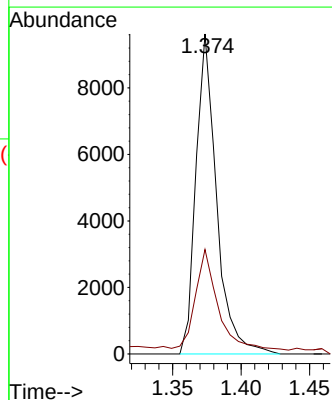
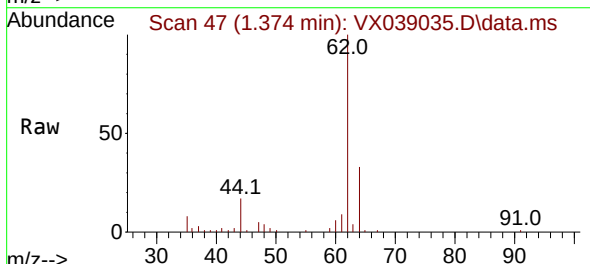
Manual Integrations  
APPROVED

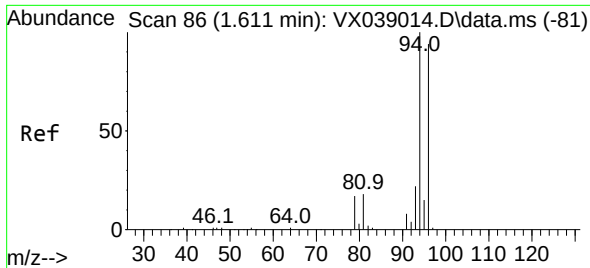
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



#4  
Vinyl Chloride  
Concen: 5.447 ug/l  
RT: 1.374 min Scan# 47  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

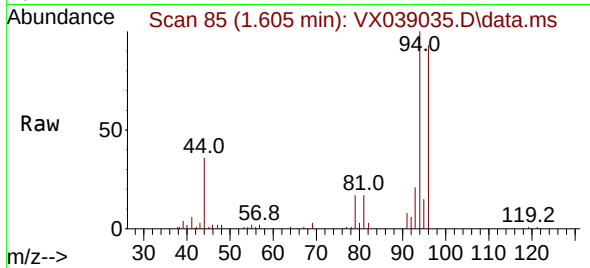
Tgt Ion: 62 Resp: 10107  
Ion Ratio Lower Upper  
62 100  
64 31.1 26.3 39.5





#5  
Bromomethane  
Concen: 6.053 ug/l m  
RT: 1.605 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

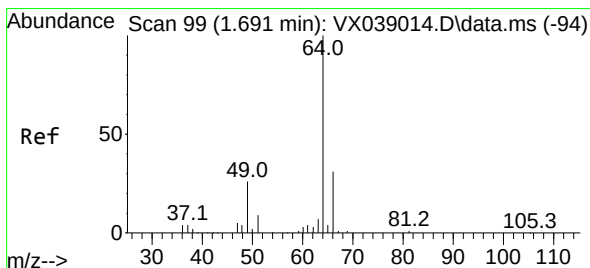
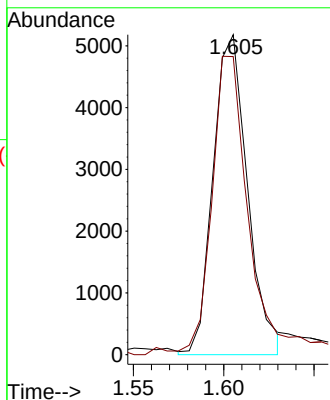
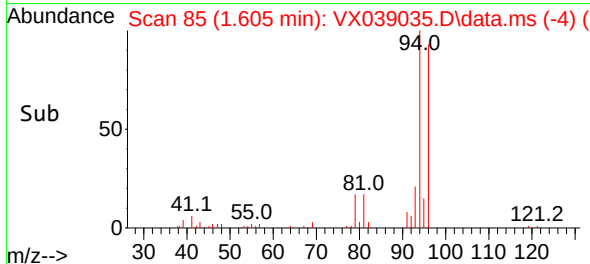
Instrument :  
MSVOA\_X  
ClientSampleId :  
LOQ-WATER-02-QT4-2023



Tgt Ion: 94 Resp: 6870  
Ion Ratio Lower Upper  
94 100  
96 93.1 74.9 112.3

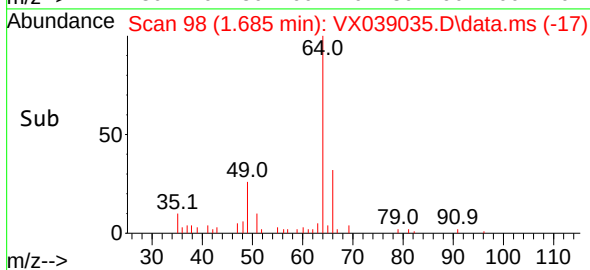
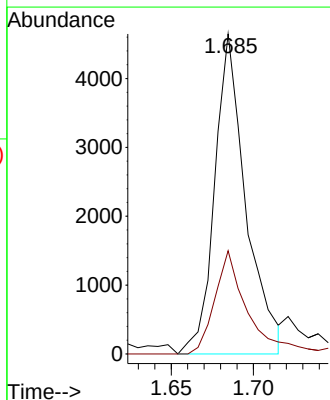
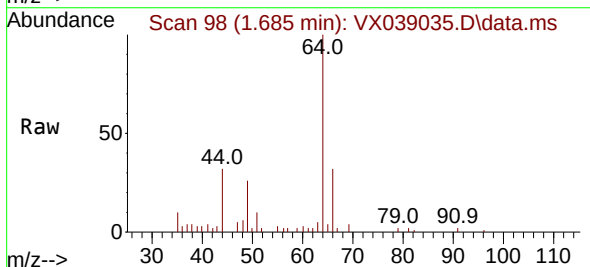
Manual Integrations  
APPROVED

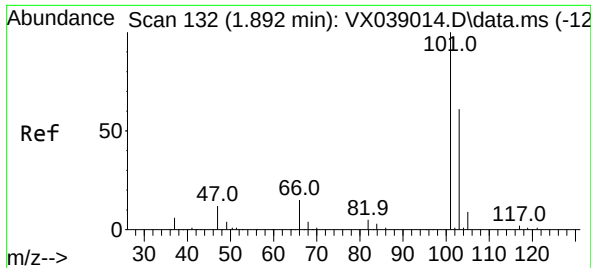
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



#6  
Chloroethane  
Concen: 5.672 ug/l  
RT: 1.685 min Scan# 98  
Delta R.T. -0.006 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Tgt Ion: 64 Resp: 6129  
Ion Ratio Lower Upper  
64 100  
66 32.3 25.0 37.6





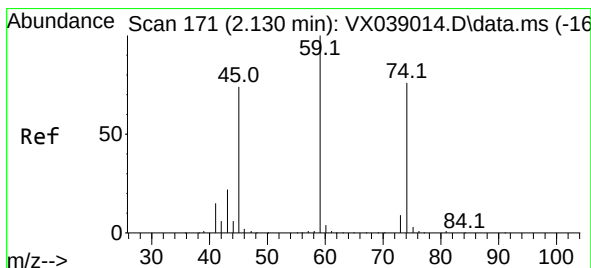
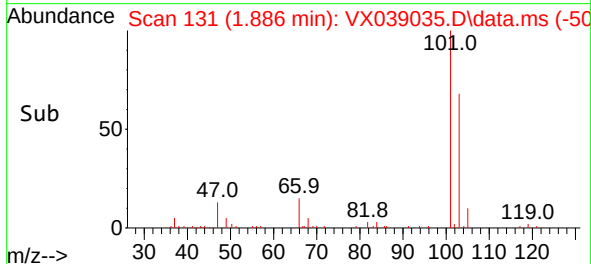
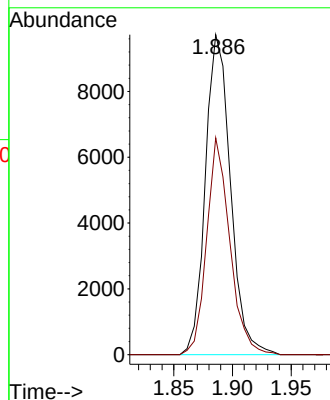
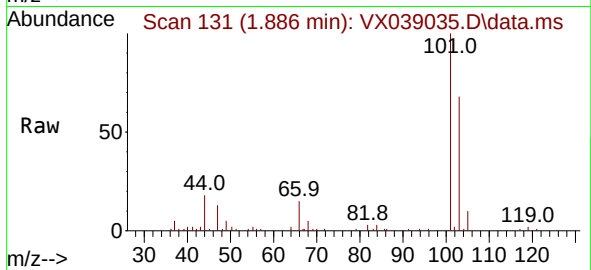
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 Trichlorofluoromethane  
 Concen: 5.652 ug/l  
 RT: 1.886 min Scan# 11  
 Delta R.T. -0.006 min  
 Lab File: VX039035.D  
 Acq: 27 Nov 2023 12:40

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LOQ-WATER-02-QT4-2023

Tgt Ion:101 Resp: 14474  
 Ion Ratio Lower Upper  
 101 100  
 103 67.7 49.1 73.7

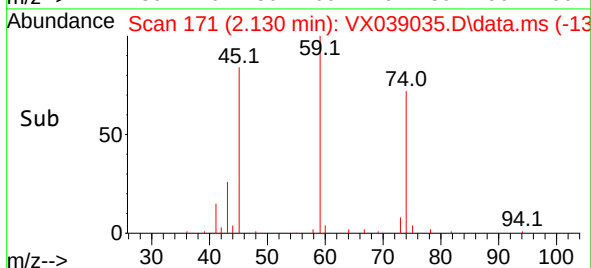
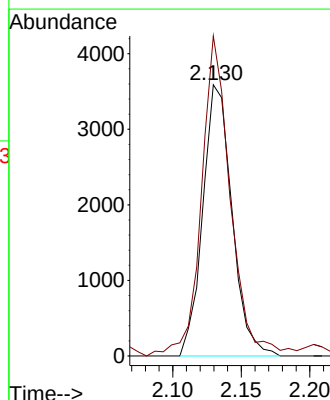
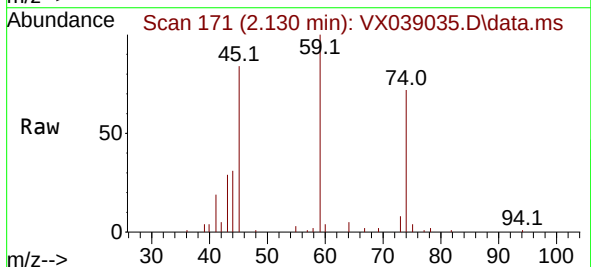
Manual Integrations  
 APPROVED

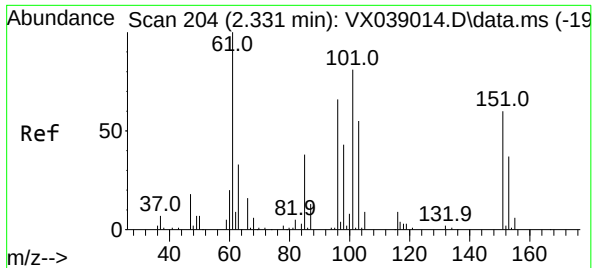
Reviewed By :John Carlone 11/28/2023  
 Supervised By :Mahesh Dadoda 11/28/2023



#8  
 Diethyl Ether  
 Concen: 5.428 ug/l  
 RT: 2.130 min Scan# 171  
 Delta R.T. -0.000 min  
 Lab File: VX039035.D  
 Acq: 27 Nov 2023 12:40

Tgt Ion: 74 Resp: 5336  
 Ion Ratio Lower Upper  
 74 100  
 45 113.1 20.5 184.5





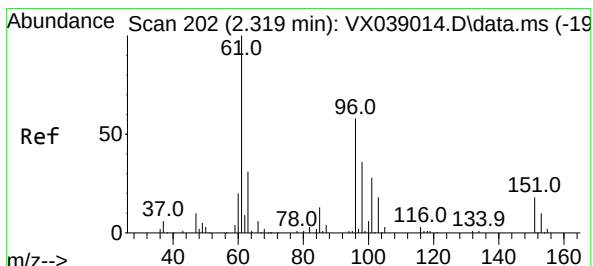
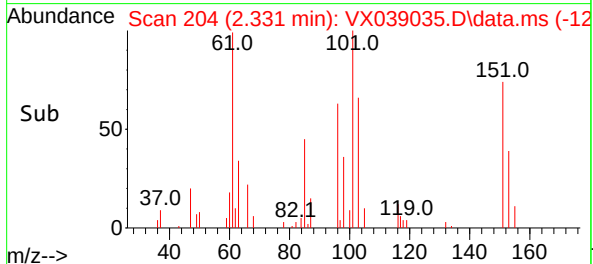
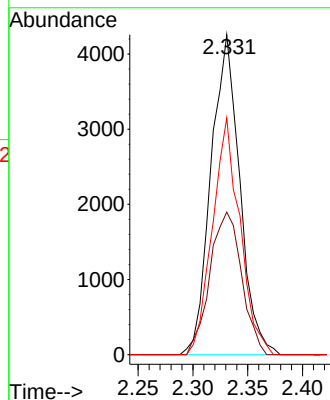
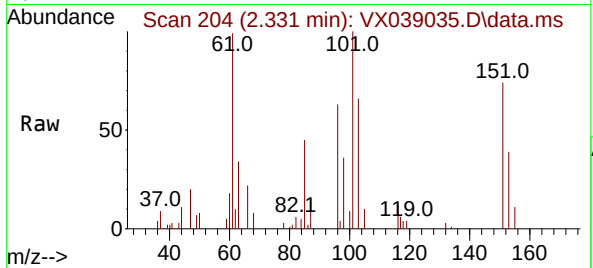
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 5.361 ug/l  
RT: 2.331 min Scan# 204  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Instrument :  
MSVOA\_X  
ClientSampleId :  
LOQ-WATER-02-QT4-2023

Tgt Ion:101 Resp: 7758  
Ion Ratio Lower Upper  
101 100  
85 49.2 0.0 95.2  
151 70.9 0.0 136.8

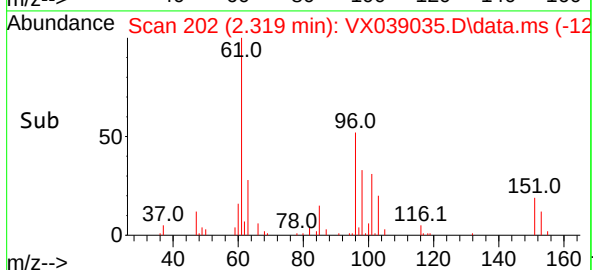
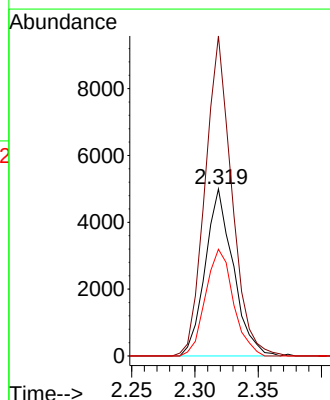
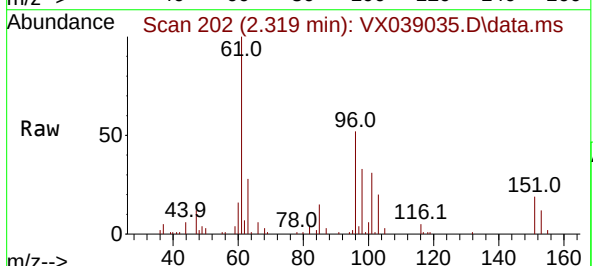
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Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023

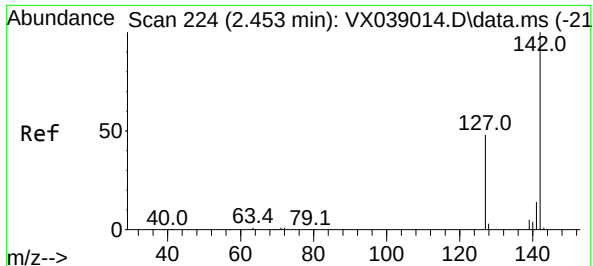


#10  
1,1-Dichloroethene  
Concen: 5.283 ug/l  
RT: 2.319 min Scan# 202  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Tgt Ion: 96 Resp: 7707  
Ion Ratio Lower Upper  
96 100  
61 190.3 138.3 207.5  
98 63.9 49.8 74.6







#11

Methyl Iodide

Concen: 5.237 ug/l

RT: 2.453 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX039035.D

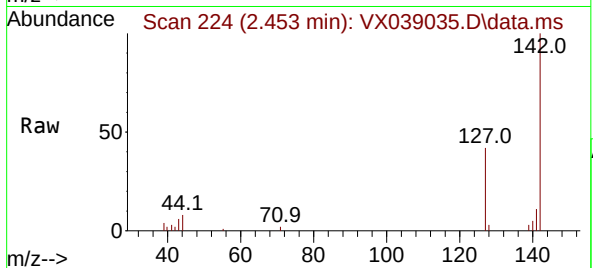
Acq: 27 Nov 2023 12:40

Instrument :

MSVOA\_X

ClientSampleId :

LOQ-WATER-02-QT4-2023



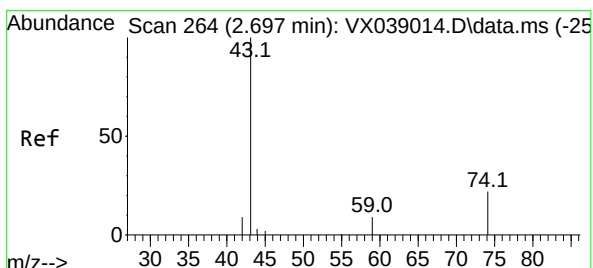
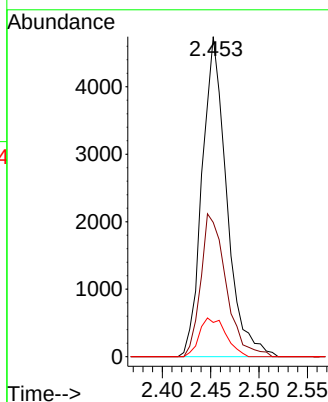
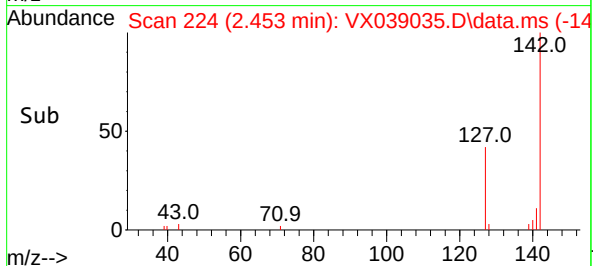
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 837   |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 127      | 42.0  | 23.8  | 71.4  |
| 141      | 10.7  | 6.9   | 20.6  |

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Reviewed By :John Carlone 11/28/2023

Supervised By :Mahesh Dadoda 11/28/2023



#12

Methyl Acetate

Concen: 5.128 ug/l

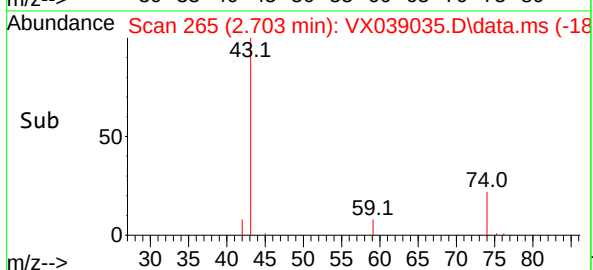
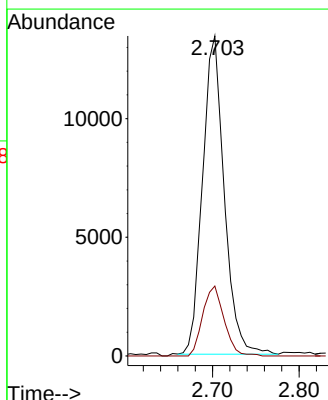
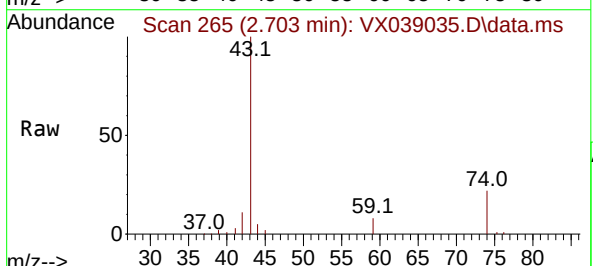
RT: 2.703 min Scan# 265

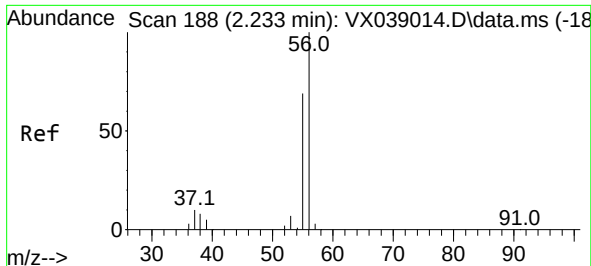
Delta R.T. 0.006 min

Lab File: VX039035.D

Acq: 27 Nov 2023 12:40

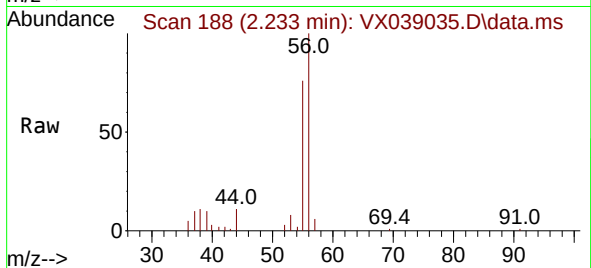
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 23333 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 74       | 22.0  | 17.8  | 26.6  |





#13  
Acrolein  
Concen: 33.220 ug/l  
RT: 2.233 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

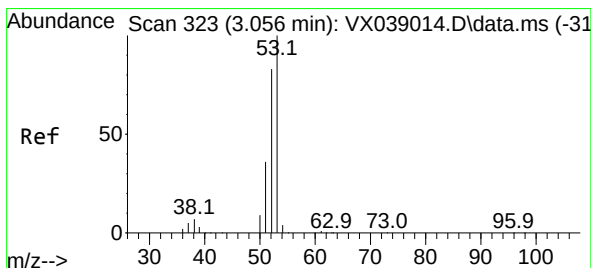
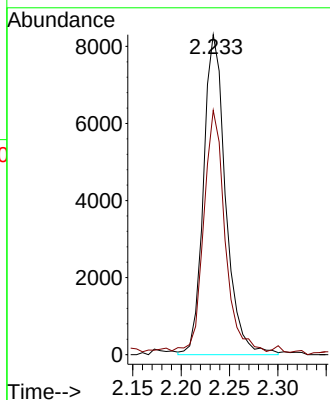
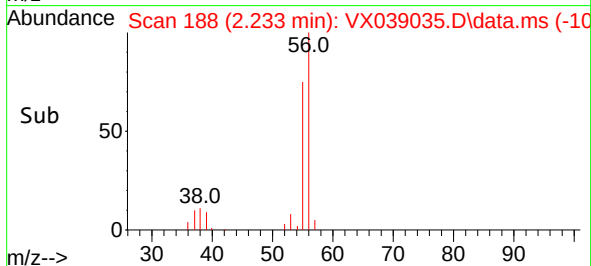
Instrument :  
MSVOA\_X  
ClientSampleId :  
LOQ-WATER-02-QT4-2023



Tgt Ion: 56 Resp: 1324  
Ion Ratio Lower Upper  
56 100  
55 74.0 57.2 85.8

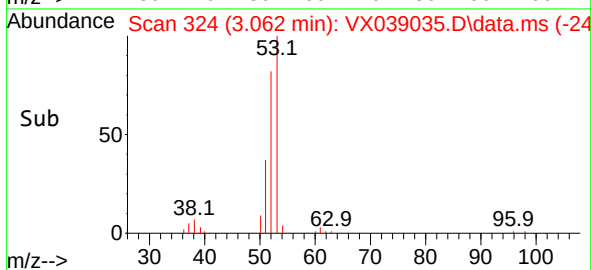
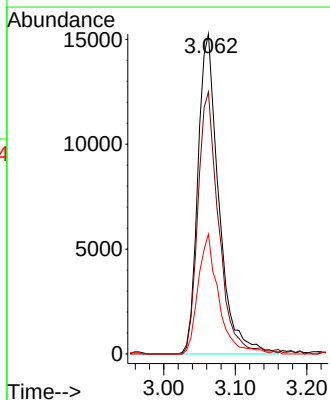
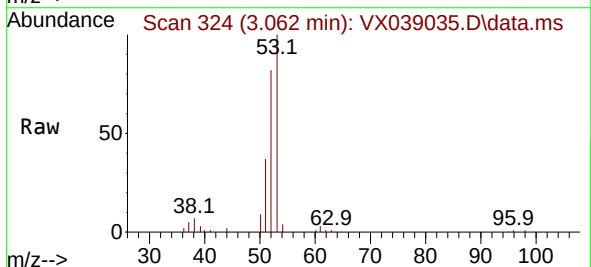
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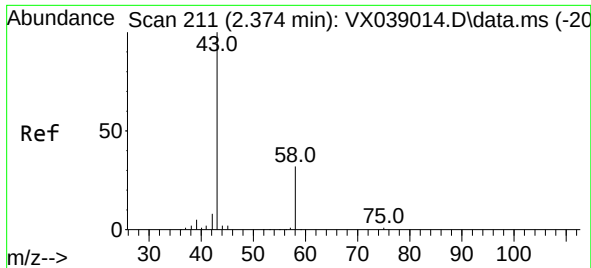
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



#14  
Acrylonitrile  
Concen: 27.849 ug/l  
RT: 3.062 min Scan# 324  
Delta R.T. 0.006 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

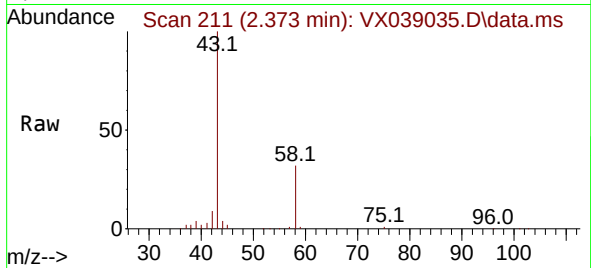
Tgt Ion: 53 Resp: 30991  
Ion Ratio Lower Upper  
53 100  
52 80.2 41.9 125.6  
51 36.7 18.3 54.9





#15  
Acetone  
Concen: 40.711 ug/l  
RT: 2.373 min Scan# 211  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

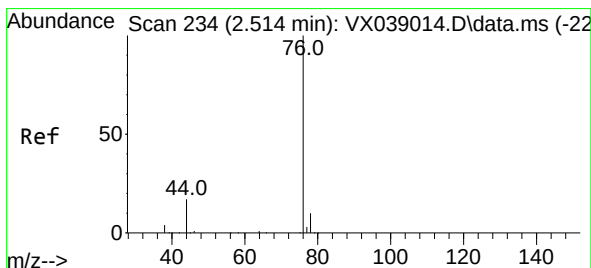
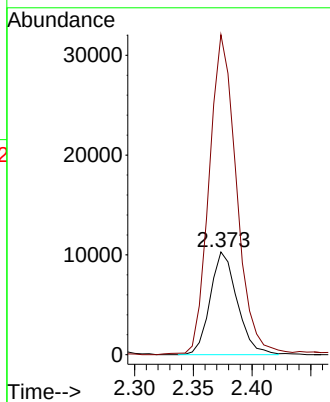
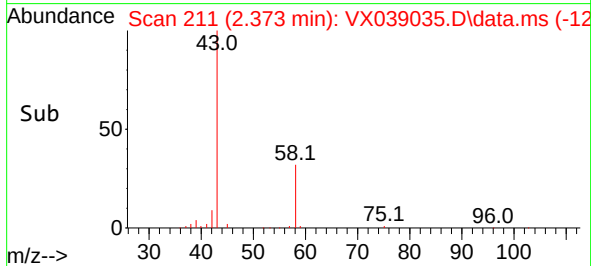
Instrument : MSVOA\_X  
ClientSampleId : LOQ-WATER-02-QT4-2023



Tgt Ion: 58 Resp: 16468  
Ion Ratio Lower Upper  
58 100  
43 310.2 249.9 374.9

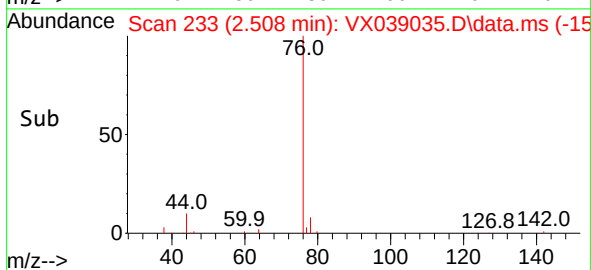
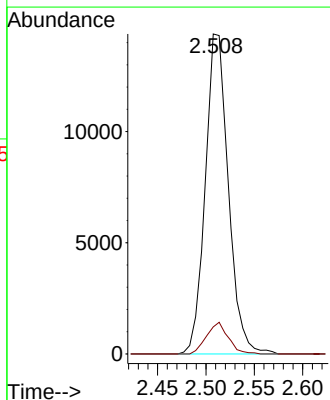
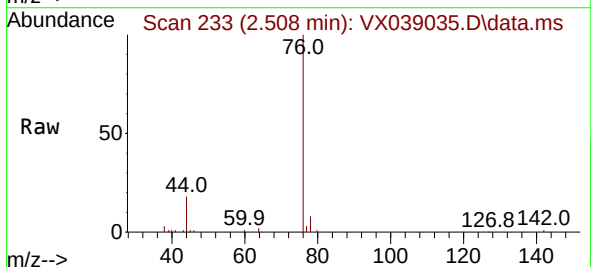
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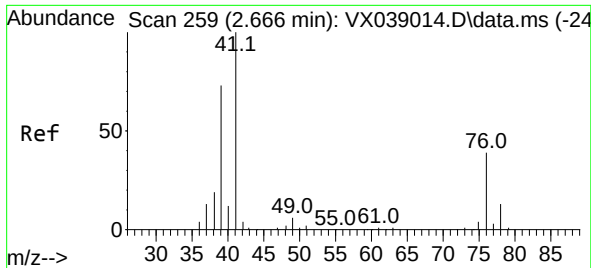
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



#16  
Carbon Disulfide  
Concen: 5.422 ug/l  
RT: 2.508 min Scan# 233  
Delta R.T. -0.006 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Tgt Ion: 76 Resp: 23956  
Ion Ratio Lower Upper  
76 100  
78 8.4 8.0 12.0





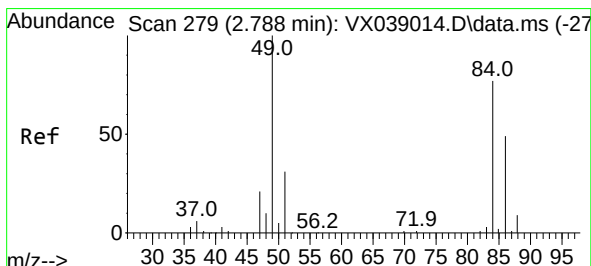
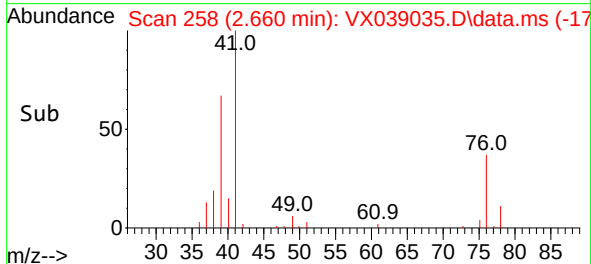
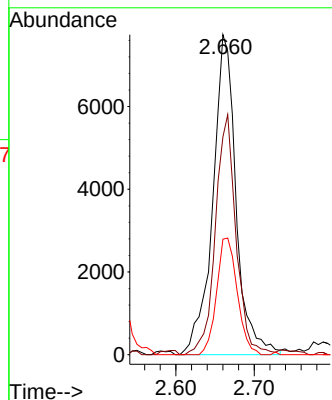
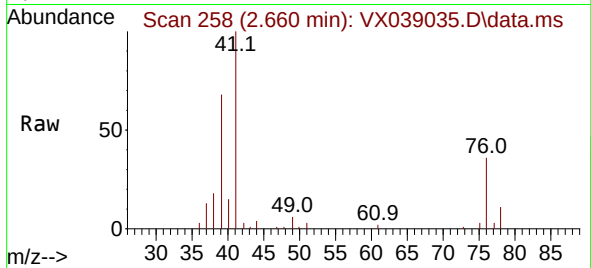
#17  
 Allyl chloride  
 Concen: 5.549 ug/l  
 RT: 2.660 min Scan# 258  
 Delta R.T. -0.006 min  
 Lab File: VX039035.D  
 Acq: 27 Nov 2023 12:40

Instrument : MSVOA\_X  
 ClientSampleId : LOQ-WATER-02-QT4-2023

Tgt Ion: 41 Resp: 1607  
 Ion Ratio Lower Upper  
 41 100  
 39 68.1 36.5 109.5  
 76 36.1 19.7 59.0

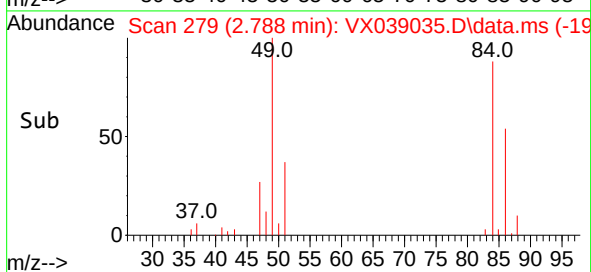
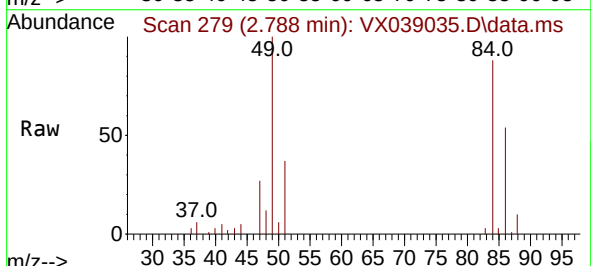
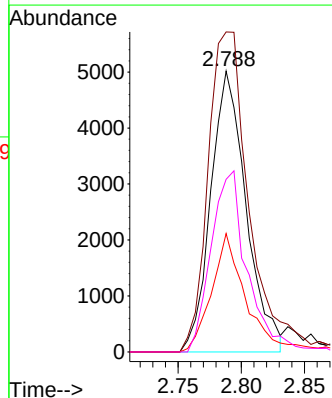
Manual Integrations  
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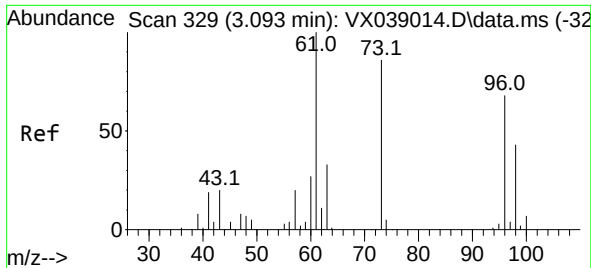
Reviewed By :John Carlone 11/28/2023  
 Supervised By :Mahesh Dadoda 11/28/2023



#18  
 Methylene Chloride  
 Concen: 5.661 ug/l  
 RT: 2.788 min Scan# 279  
 Delta R.T. -0.000 min  
 Lab File: VX039035.D  
 Acq: 27 Nov 2023 12:40

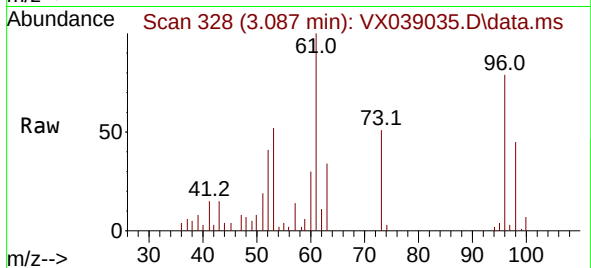
Tgt Ion: 84 Resp: 9790  
 Ion Ratio Lower Upper  
 84 100  
 49 114.0 103.8 155.8  
 51 42.2 31.8 47.6  
 86 61.5 50.8 76.2





#19  
trans-1,2-Dichloroethene  
Concen: 5.450 ug/l  
RT: 3.087 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

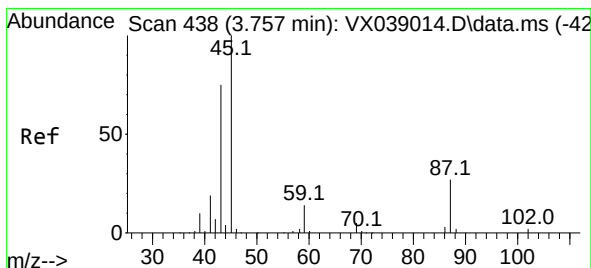
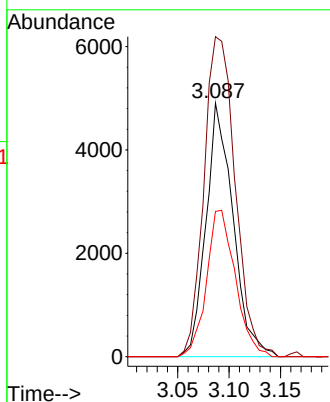
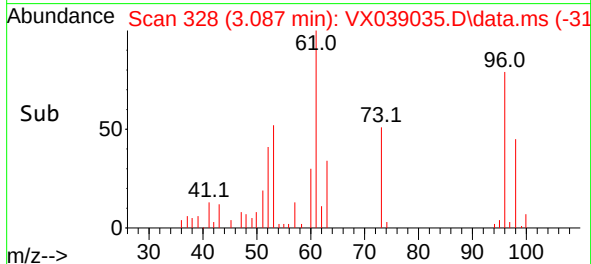
Instrument :  
MSVOA\_X  
ClientSampleId :  
LOQ-WATER-02-QT4-2023



Tgt Ion: 96 Resp: 8992  
Ion Ratio Lower Upper  
96 100  
61 126.2 117.9 176.9  
98 57.3 51.0 76.6

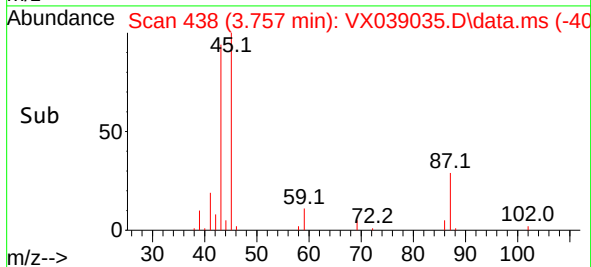
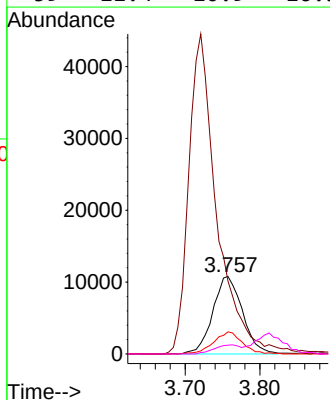
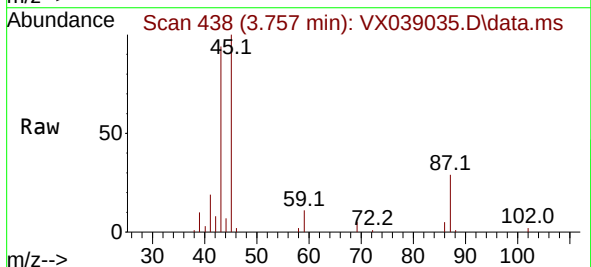
Manual Integrations  
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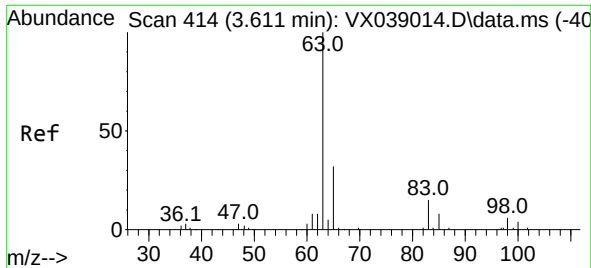
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



#20  
Diisopropyl ether  
Concen: 5.392 ug/l  
RT: 3.757 min Scan# 438  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Tgt Ion: 45 Resp: 29716  
Ion Ratio Lower Upper  
45 100  
43 86.1 67.7 101.5  
87 28.5 21.5 32.3  
59 11.4 10.9 16.3





#21

1,1-Dichloroethane

Concen: 5.554 ug/l

RT: 3.611 min Scan# 41

Delta R.T. -0.000 min

Lab File: VX039035.D

Acq: 27 Nov 2023 12:40

Instrument :

MSVOA\_X

ClientSampleId :

LOQ-WATER-02-QT4-2023

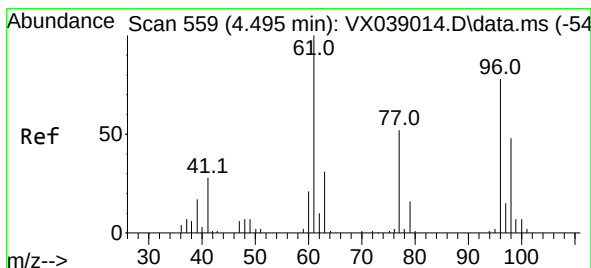
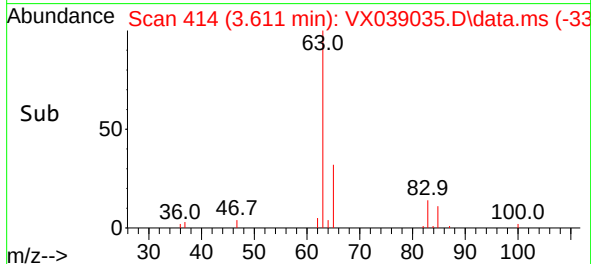
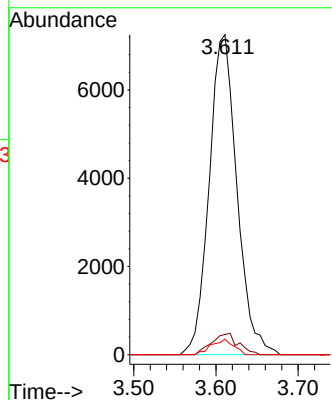
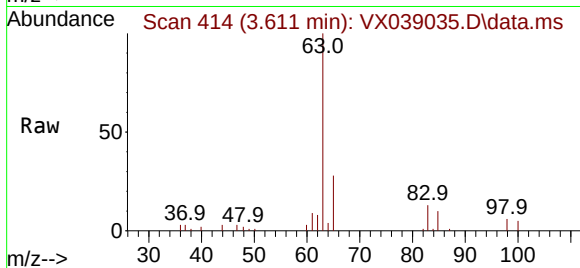
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 63    | Resp: | 17019 |
| Ion Ratio | Lower | Upper |       |
| 63        | 100   |       |       |
| 98        | 6.3   | 2.9   | 8.8   |
| 100       | 4.8   | 2.0   | 5.8   |

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Reviewed By :John Carlone 11/28/2023

Supervised By :Mahesh Dadoda 11/28/2023



#22

cis-1,2-Dichloroethene

Concen: 5.282 ug/l

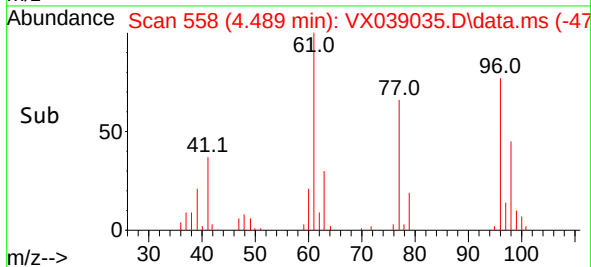
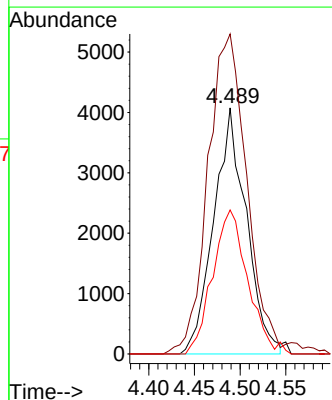
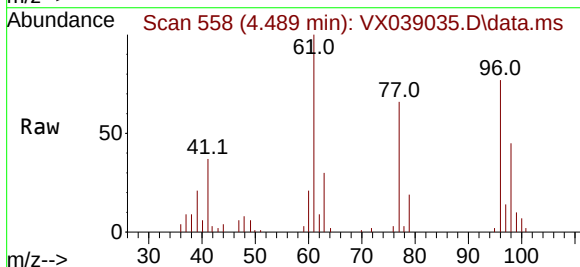
RT: 4.489 min Scan# 558

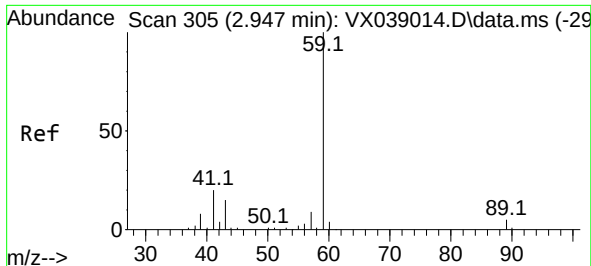
Delta R.T. -0.006 min

Lab File: VX039035.D

Acq: 27 Nov 2023 12:40

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 96    | Resp: | 10099 |
| Ion Ratio | Lower | Upper |       |
| 96        | 100   |       |       |
| 61        | 154.2 | 119.8 | 179.6 |
| 98        | 62.3  | 50.9  | 76.3  |





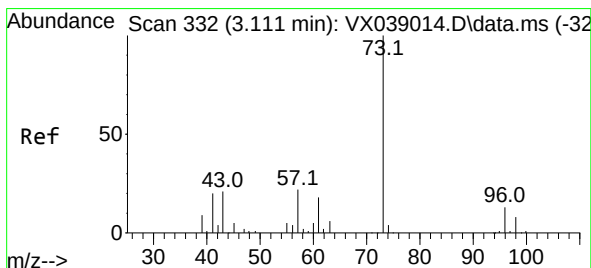
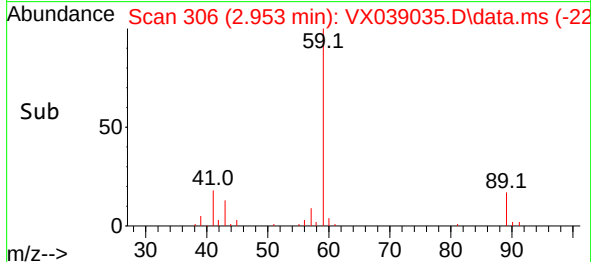
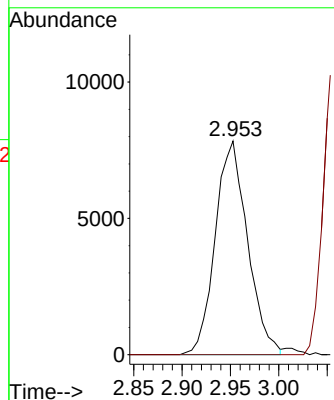
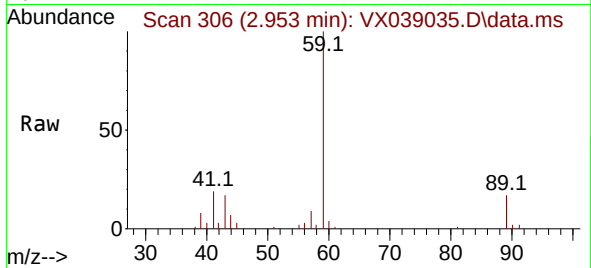
#23  
tert-Butyl Alcohol  
Concen: 29.539 ug/l  
RT: 2.953 min Scan# 305  
Delta R.T. 0.006 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Instrument :  
MSVOA\_X  
ClientSampleId :  
LOQ-WATER-02-QT4-2023

Tgt Ion: 59 Resp: 18198  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0

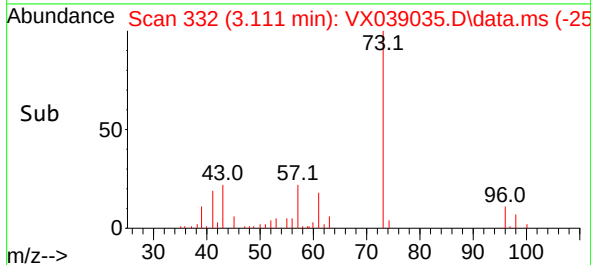
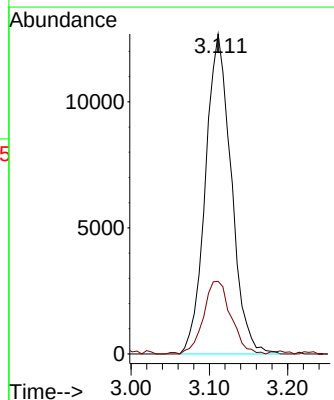
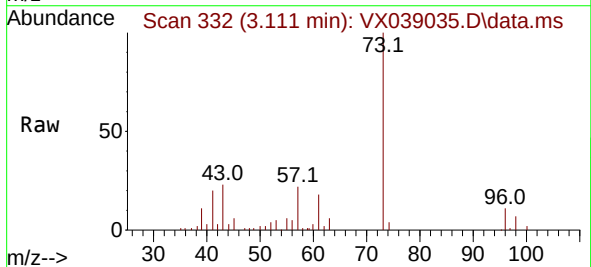
Manual Integrations  
APPROVED

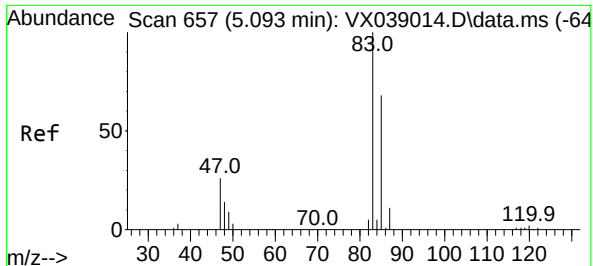
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



#24  
Methyl tert-Butyl Ether  
Concen: 5.412 ug/l  
RT: 3.111 min Scan# 332  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Tgt Ion: 73 Resp: 29083  
Ion Ratio Lower Upper  
73 100  
43 24.0 17.0 25.6





#25

Chloroform

Concen: 5.344 ug/l m

RT: 5.086 min Scan# 6

Delta R.T. -0.006 min

Lab File: VX039035.D

Acq: 27 Nov 2023 12:40

Instrument :

MSVOA\_X

ClientSampleId :

LOQ-WATER-02-QT4-2023

Tgt Ion: 83 Resp: 16430

Ion Ratio Lower Upper

83 100

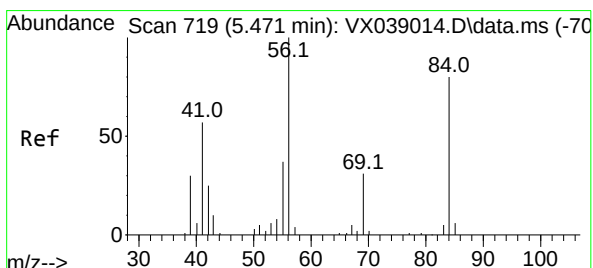
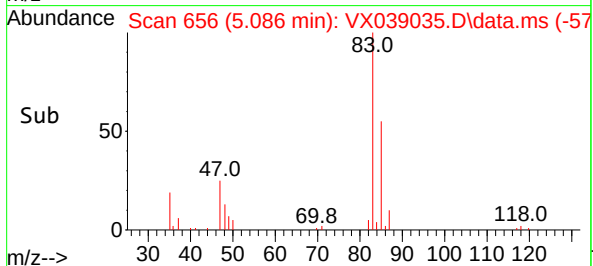
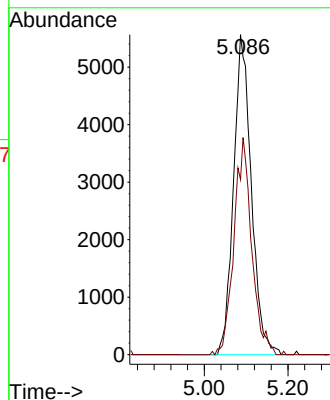
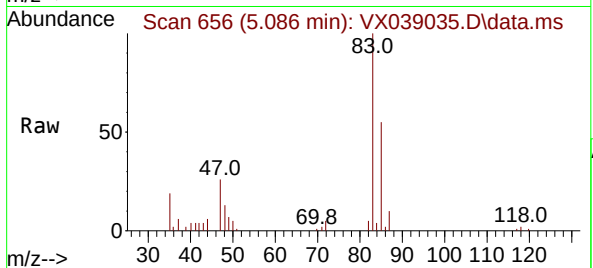
85 54.7 54.6 81.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/28/2023

Supervised By :Mahesh Dadoda 11/28/2023



#26

Cyclohexane

Concen: 5.694 ug/l

RT: 5.458 min Scan# 717

Delta R.T. -0.012 min

Lab File: VX039035.D

Acq: 27 Nov 2023 12:40

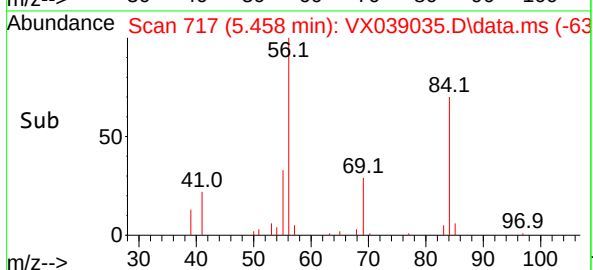
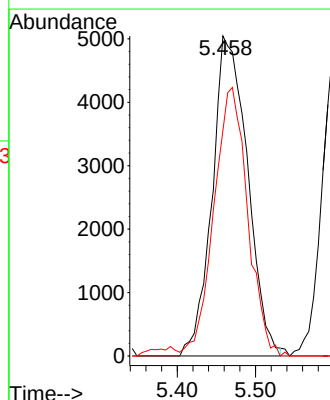
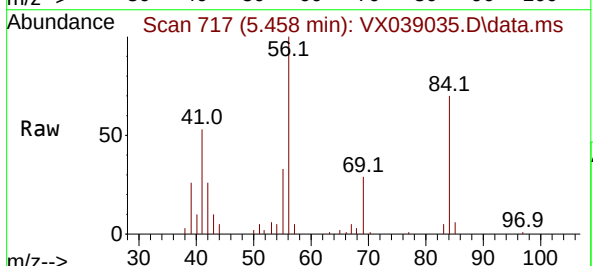
Tgt Ion: 56 Resp: 15791

Ion Ratio Lower Upper

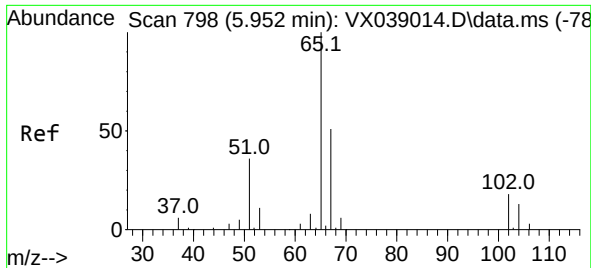
56 100

89 0.0 0.0 0.0

84 80.1 67.2 100.8

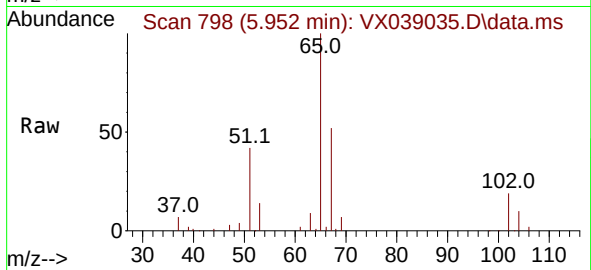






#27  
1,2-Dichloroethane-d4  
Concen: 32.495 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

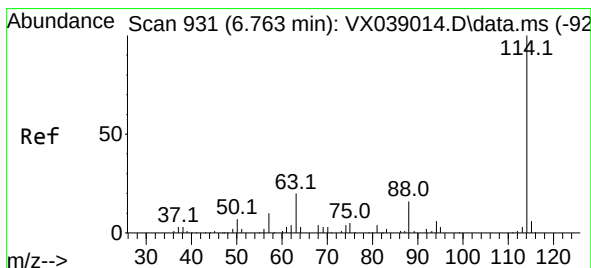
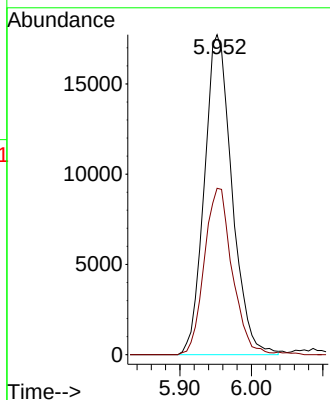
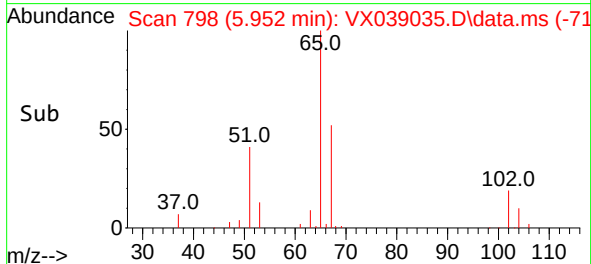
Instrument : MSVOA\_X  
Client Sample Id : LOQ-WATER-02-QT4-2023



Tgt Ion: 65 Resp: 47679  
Ion Ratio Lower Upper  
65 100  
67 51.7 42.5 63.7

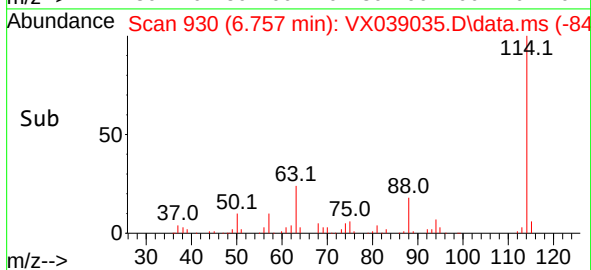
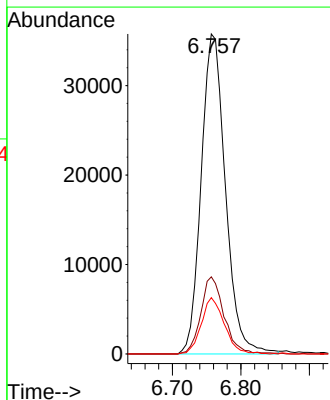
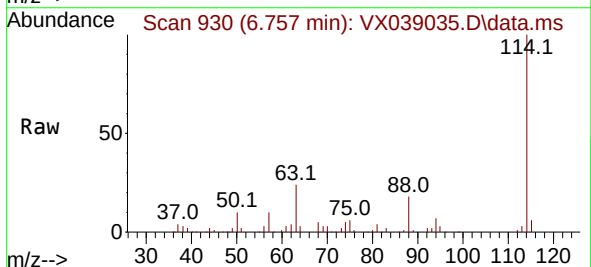
Manual Integrations  
APPROVED

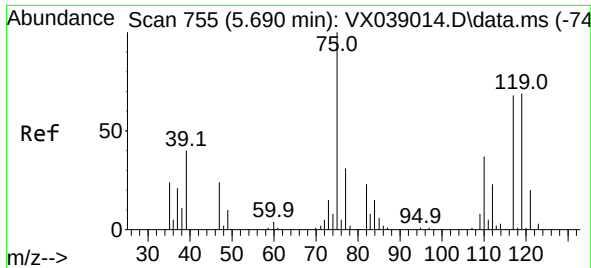
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 6.757 min Scan# 930  
Delta R.T. -0.006 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

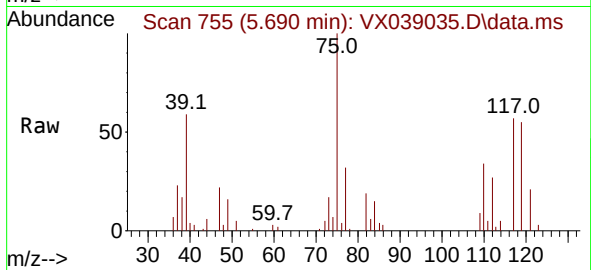
Tgt Ion:114 Resp: 88125  
Ion Ratio Lower Upper  
114 100  
63 22.8 17.0 25.4  
88 16.5 12.7 19.1





#29  
1,1-Dichloropropene  
Concen: 5.010 ug/l  
RT: 5.690 min Scan# 755  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

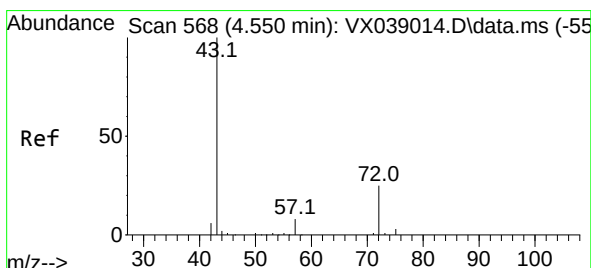
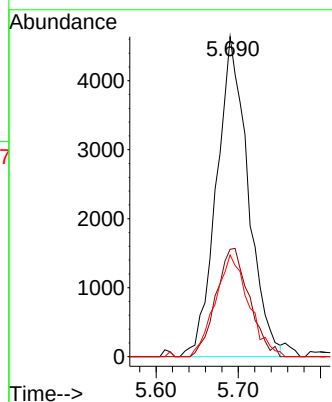
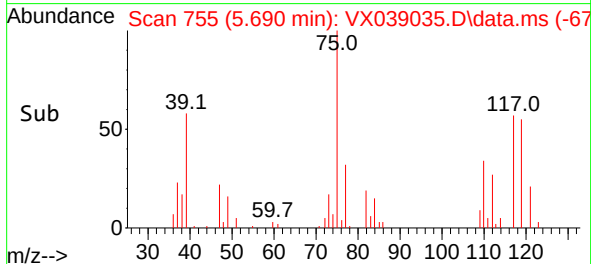
Instrument : MSVOA\_X  
ClientSampleId : LOQ-WATER-02-QT4-2023



Tgt Ion: 75 Resp: 12370  
Ion Ratio Lower Upper  
75 100  
110 35.6 0.0 71.2  
77 33.8 0.0 62.6

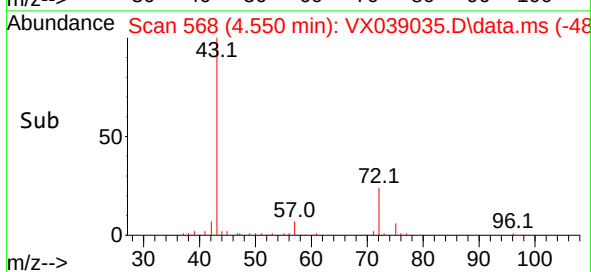
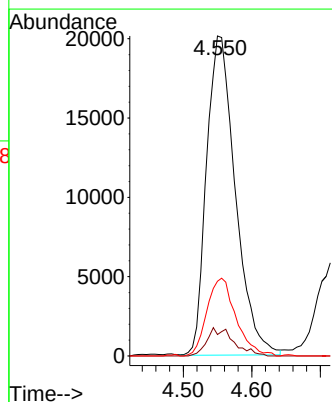
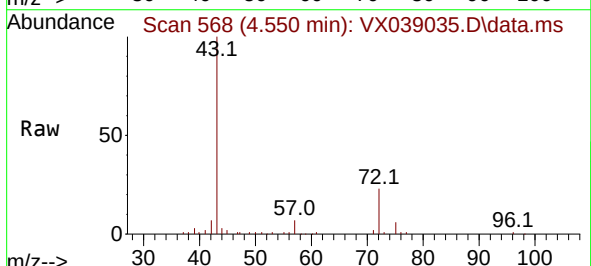
Manual Integrations  
APPROVED

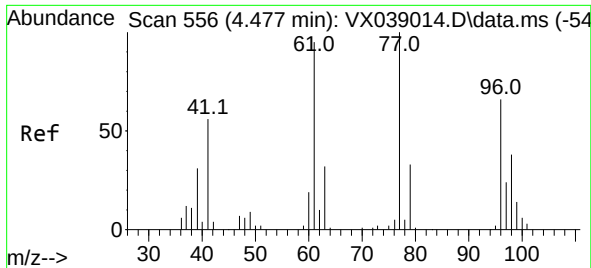
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



#30  
2-Butanone  
Concen: 31.671 ug/l  
RT: 4.550 min Scan# 568  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Tgt Ion: 43 Resp: 58906  
Ion Ratio Lower Upper  
43 100  
57 4.6 6.6 10.0#  
72 24.2 20.6 31.0





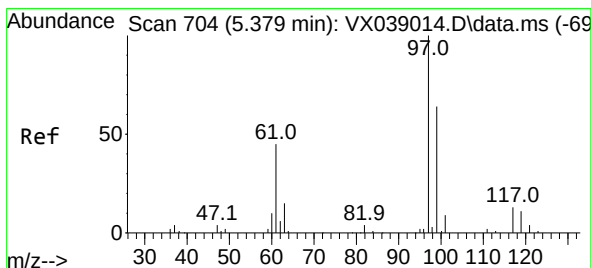
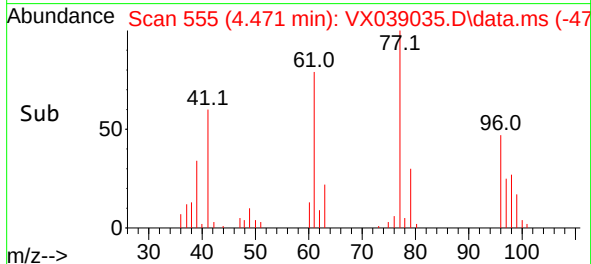
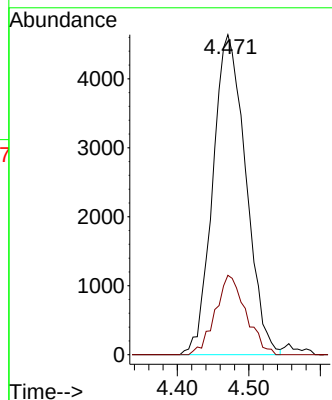
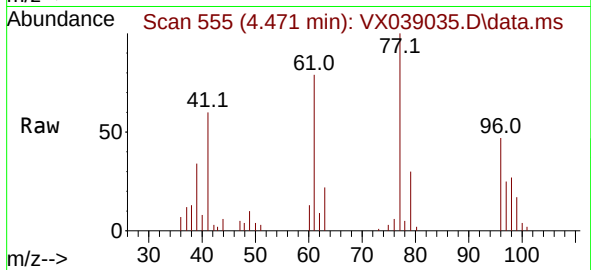
#31  
2,2-Dichloropropane  
Concen: 5.265 ug/l  
RT: 4.471 min Scan# 511  
Delta R.T. -0.006 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Instrument :  
MSVOA\_X  
ClientSampleId :  
LOQ-WATER-02-QT4-2023

Tgt Ion: 77 Resp: 1487  
Ion Ratio Lower Upper  
77 100  
97 22.8 18.2 27.4

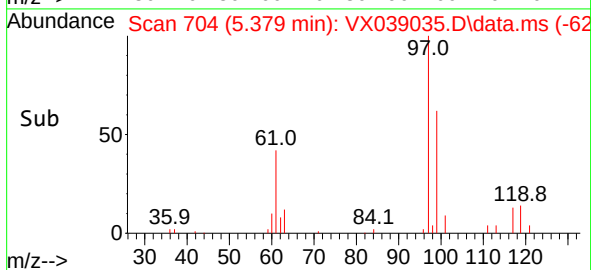
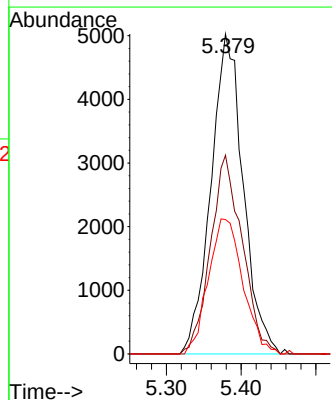
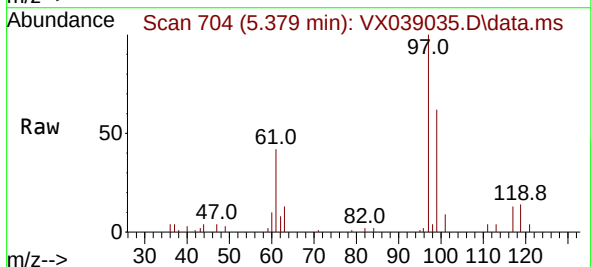
Manual Integrations  
APPROVED

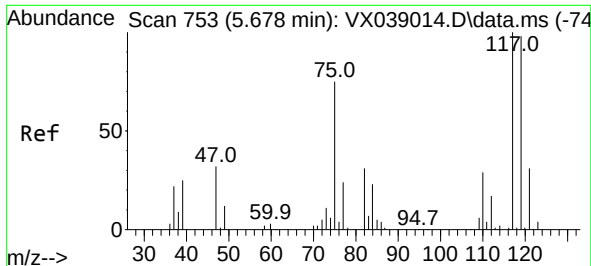
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



#32  
1,1,1-Trichloroethane  
Concen: 5.270 ug/l  
RT: 5.379 min Scan# 704  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Tgt Ion: 97 Resp: 15047  
Ion Ratio Lower Upper  
97 100  
99 61.3 52.6 79.0  
61 45.4 36.9 55.3





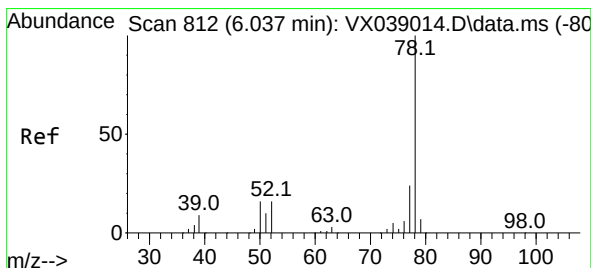
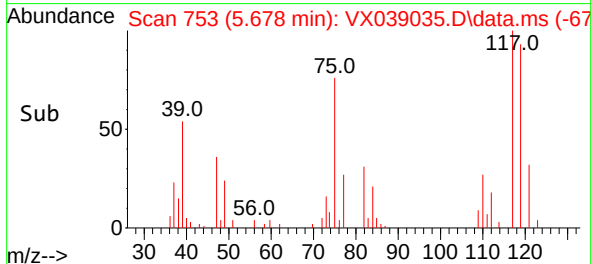
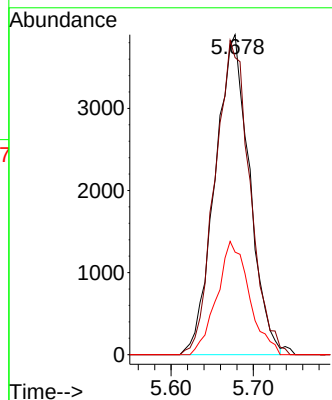
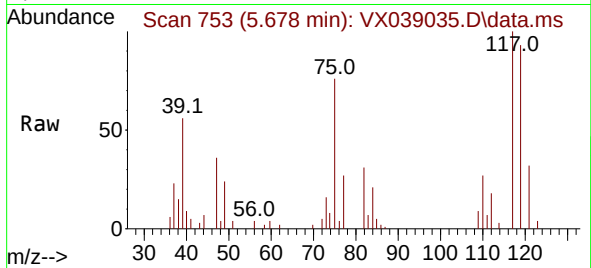
#33  
Carbon Tetrachloride  
Concen: 4.705 ug/l  
RT: 5.678 min Scan# 753  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Instrument :  
MSVOA\_X  
ClientSampleId :  
LOQ-WATER-02-QT4-2023

Tgt Ion:117 Resp: 1131  
Ion Ratio Lower Upper  
117 100  
119 92.9 78.2 117.4  
121 32.1 24.7 37.1

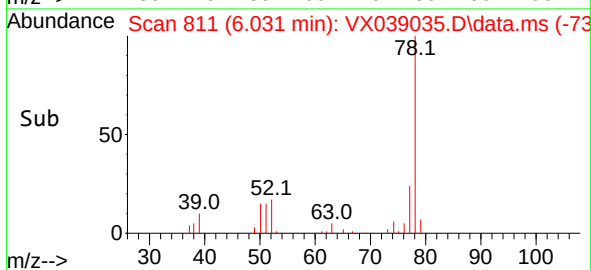
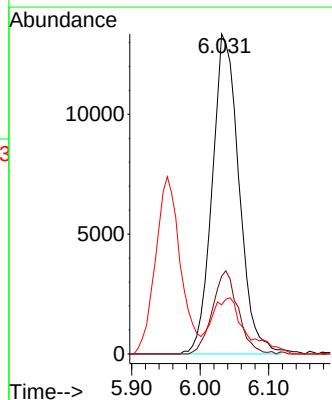
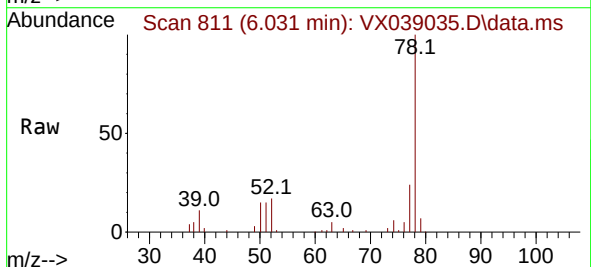
Manual Integrations  
APPROVED

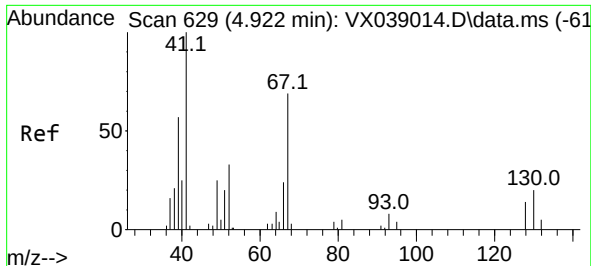
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



#34  
Benzene  
Concen: 5.041 ug/l  
RT: 6.031 min Scan# 811  
Delta R.T. -0.006 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

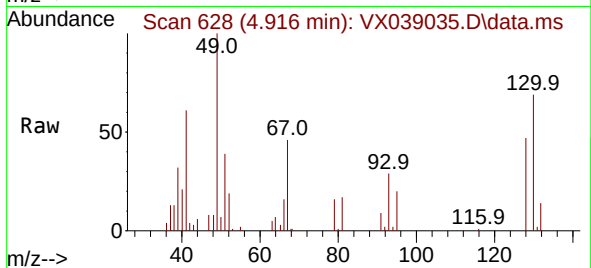
Tgt Ion: 78 Resp: 36278  
Ion Ratio Lower Upper  
78 100  
77 24.3 19.3 28.9  
51 13.5 14.4 21.6#





#35  
Methacrylonitrile  
Concen: 4.739 ug/l  
RT: 4.916 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

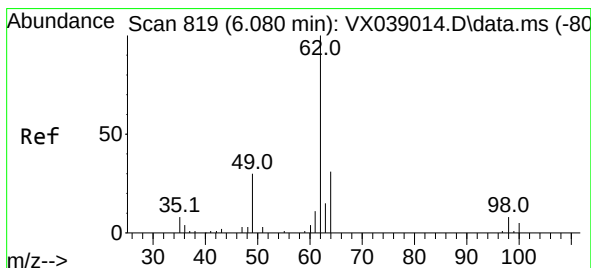
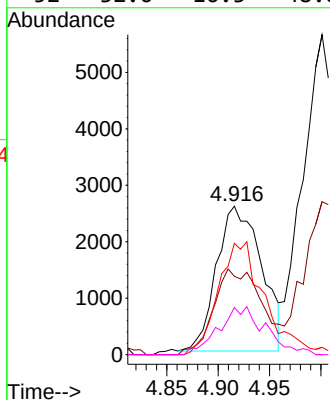
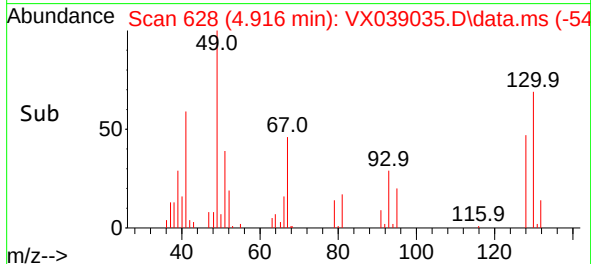
Instrument :  
MSVOA\_X  
ClientSampleId :  
LOQ-WATER-02-QT4-2023



Tgt Ion: 41 Resp: 7808  
Ion Ratio Lower Upper  
41 100  
39 54.1 28.2 84.7  
67 76.9 34.5 103.5  
52 32.6 16.3 48.8

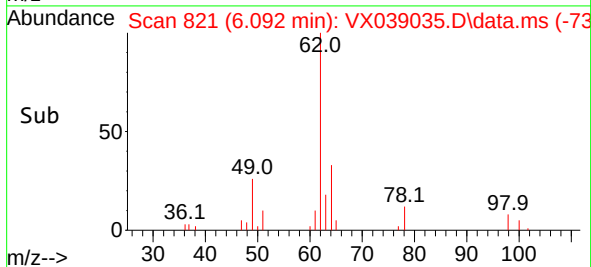
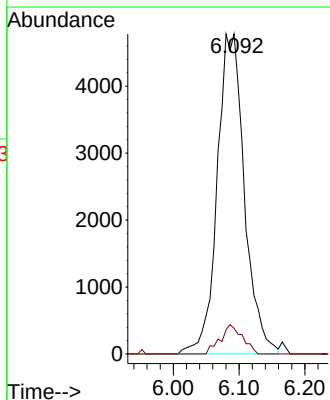
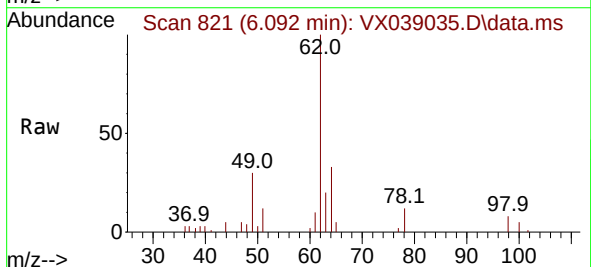
Manual Integrations  
APPROVED

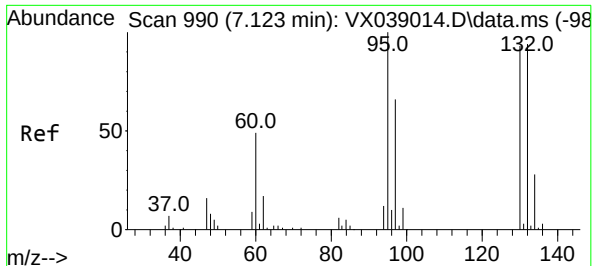
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



#36  
1,2-Dichloroethane  
Concen: 5.221 ug/l  
RT: 6.092 min Scan# 821  
Delta R.T. 0.012 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

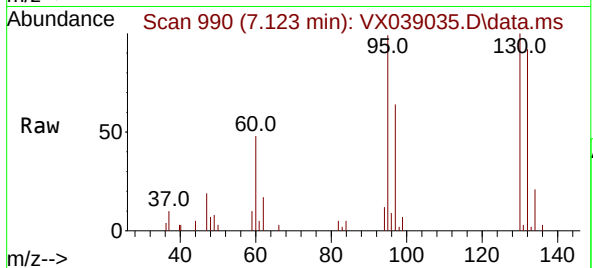
Tgt Ion: 62 Resp: 13787  
Ion Ratio Lower Upper  
62 100  
98 7.4 7.0 10.4





#37  
Trichloroethene  
Concen: 5.033 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

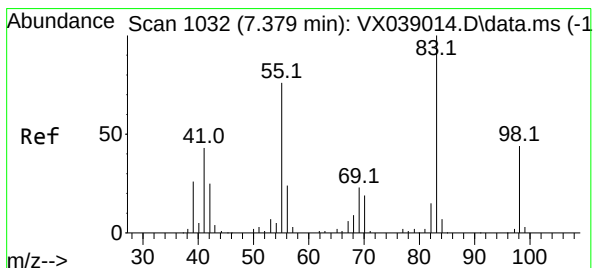
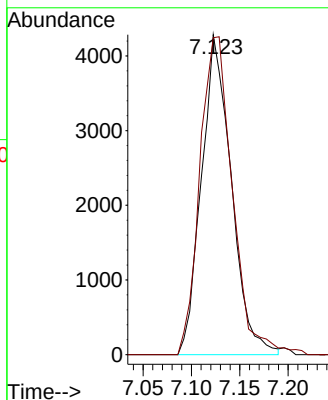
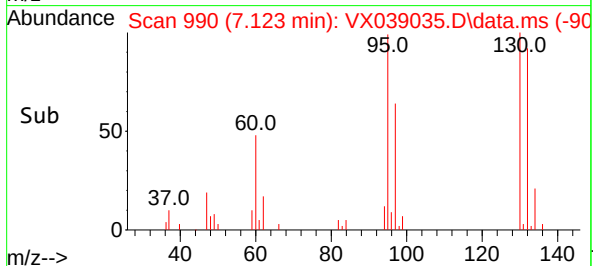
Instrument :  
MSVOA\_X  
ClientSampleId :  
LOQ-WATER-02-QT4-2023



Tgt Ion:130 Resp: 919  
Ion Ratio Lower Upper  
130 100  
95 99.1 85.8 128.8

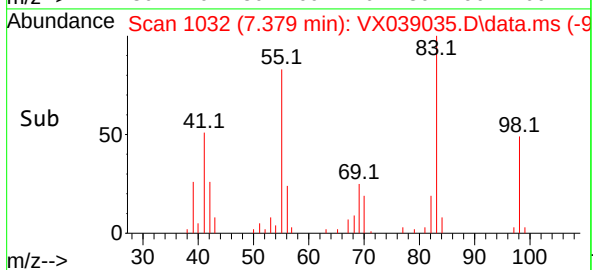
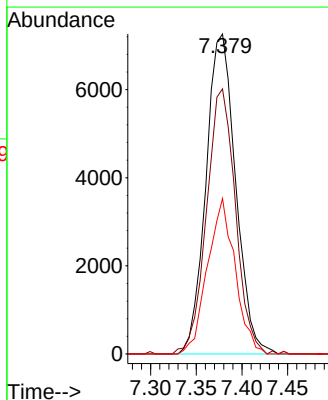
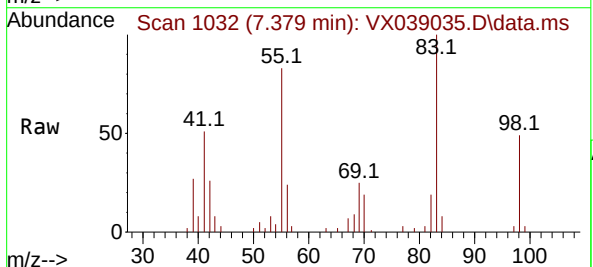
Manual Integrations  
APPROVED

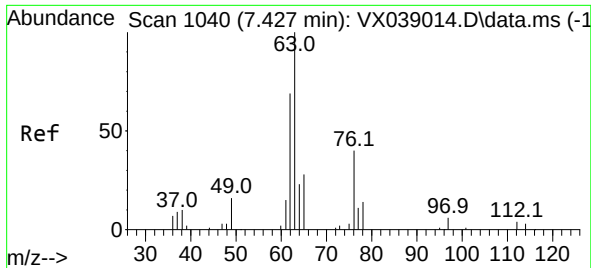
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



#38  
Methylcyclohexane  
Concen: 5.332 ug/l  
RT: 7.379 min Scan# 1032  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Tgt Ion: 83 Resp: 16411  
Ion Ratio Lower Upper  
83 100  
55 80.5 38.6 116.0  
98 45.2 22.3 66.8





#39

1,2-Dichloropropane

Concen: 5.107 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX039035.D

Acq: 27 Nov 2023 12:40

Instrument :

MSVOA\_X

ClientSampleId :

LOQ-WATER-02-QT4-2023

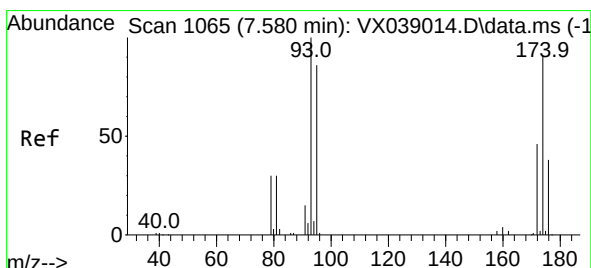
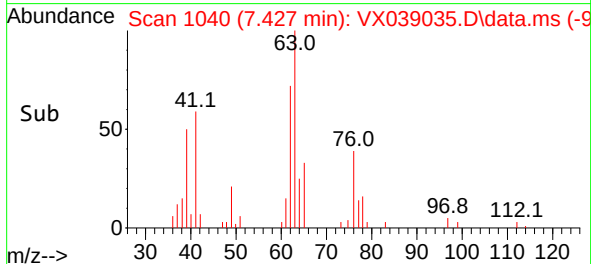
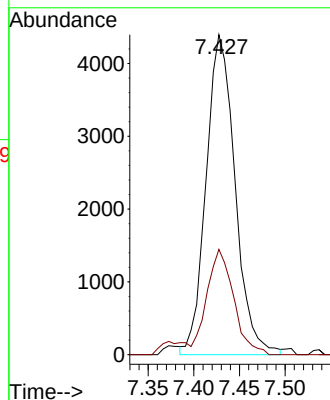
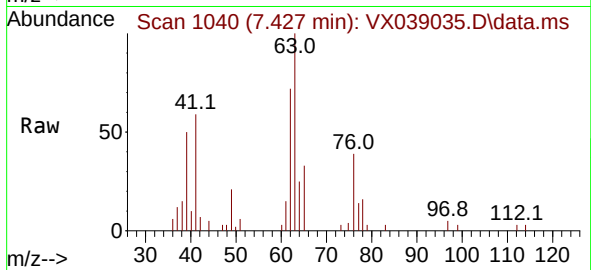
Tgt Ion: 63 Resp: 969  
 Ion Ratio Lower Upper  
 63 100  
 65 33.5 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/28/2023

Supervised By :Mahesh Dadoda 11/28/2023



#40

Dibromomethane

Concen: 4.880 ug/l

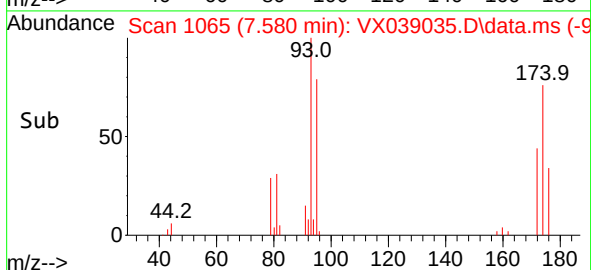
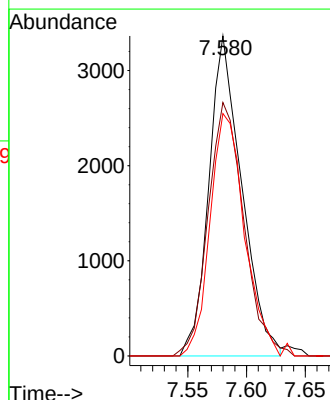
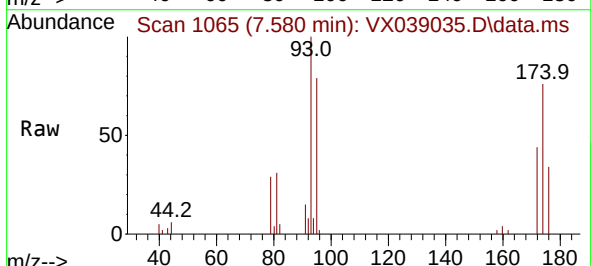
RT: 7.580 min Scan# 1065

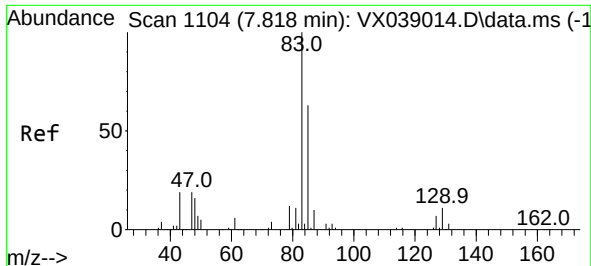
Delta R.T. -0.000 min

Lab File: VX039035.D

Acq: 27 Nov 2023 12:40

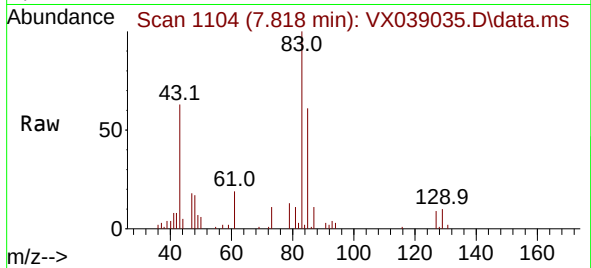
Tgt Ion: 93 Resp: 6544  
 Ion Ratio Lower Upper  
 93 100  
 95 86.1 0.0 163.4  
 174 79.3 0.0 166.4





#41  
Bromodichloromethane  
Concen: 5.007 ug/l  
RT: 7.818 min Scan# 1104  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

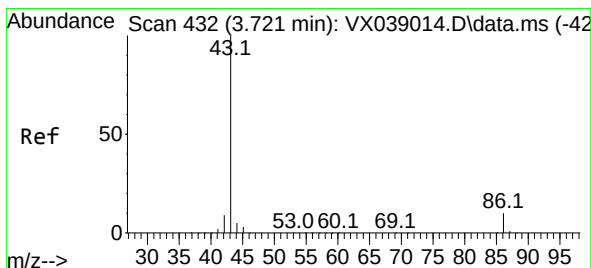
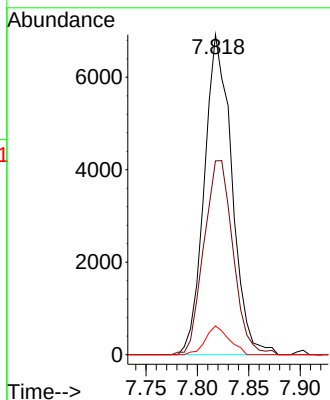
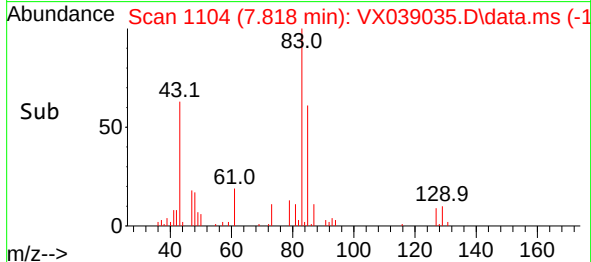
Instrument : MSVOA\_X  
ClientSampleId : LOQ-WATER-02-QT4-2023



Tgt Ion: 83 Resp: 12898  
Ion Ratio Lower Upper  
83 100  
85 60.6 50.8 76.2  
127 9.0 5.9 8.9

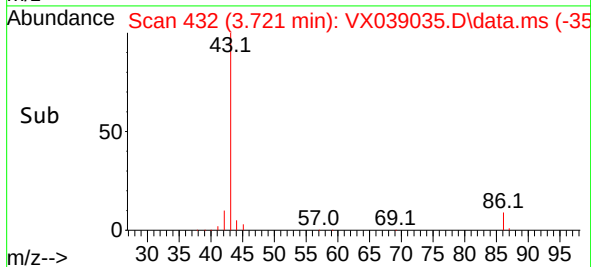
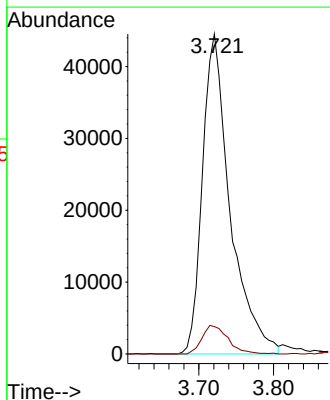
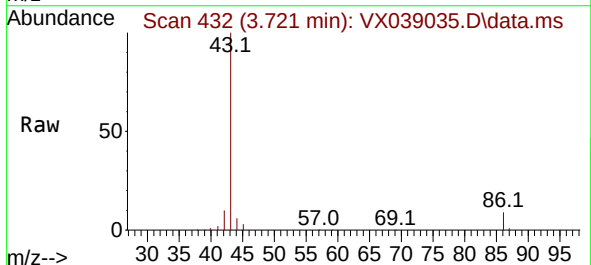
Manual Integrations  
APPROVED

Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023

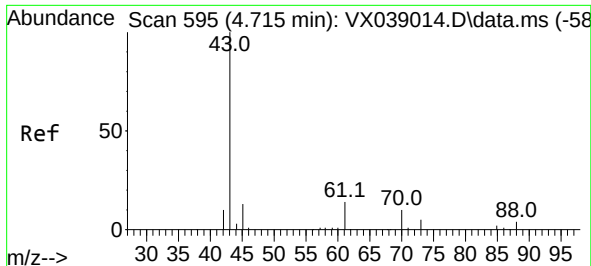


#42  
Vinyl Acetate  
Concen: 25.844 ug/l  
RT: 3.721 min Scan# 432  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Tgt Ion: 43 Resp: 114491  
Ion Ratio Lower Upper  
43 100  
86 8.4 6.7 10.1

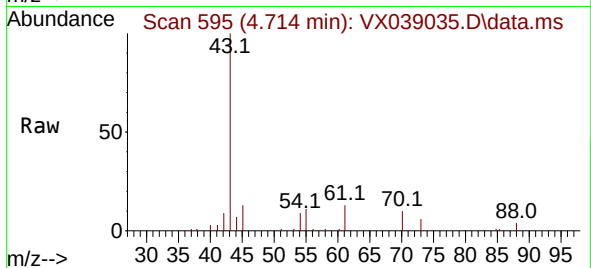






#43  
Ethyl Acetate  
Concen: 5.317 ug/l  
RT: 4.714 min Scan# 595  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

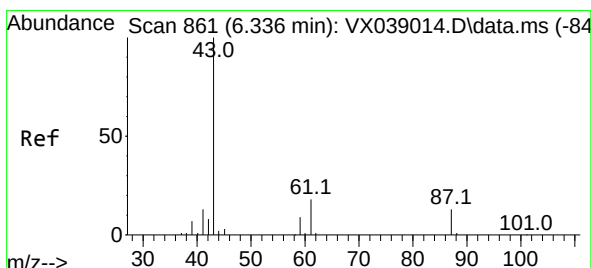
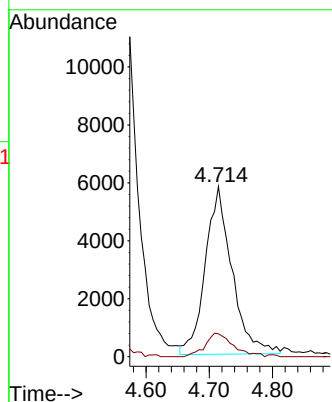
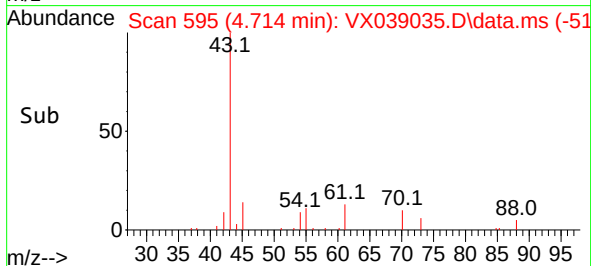
Instrument :  
MSVOA\_X  
ClientSampleId :  
LOQ-WATER-02-QT4-2023



Tgt Ion: 43 Resp: 1701  
Ion Ratio Lower Upper  
43 100  
45 13.9 11.8 17.8

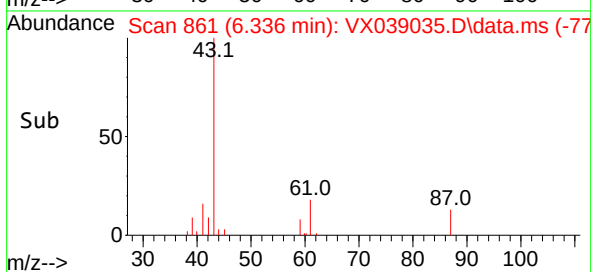
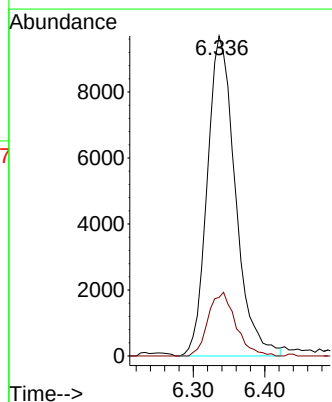
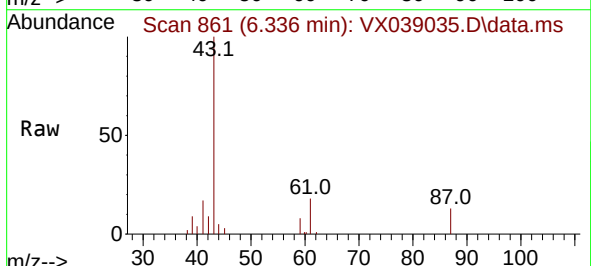
Manual Integrations  
APPROVED

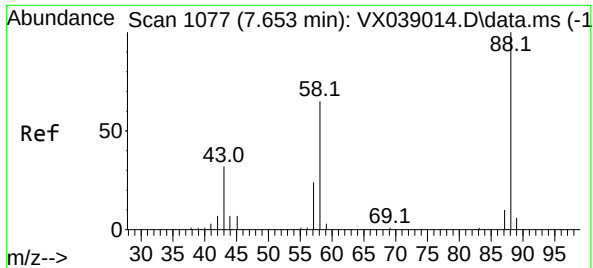
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



#44  
Isopropyl Acetate  
Concen: 5.245 ug/l  
RT: 6.336 min Scan# 861  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Tgt Ion: 43 Resp: 26459  
Ion Ratio Lower Upper  
43 100  
61 19.5 15.6 23.4





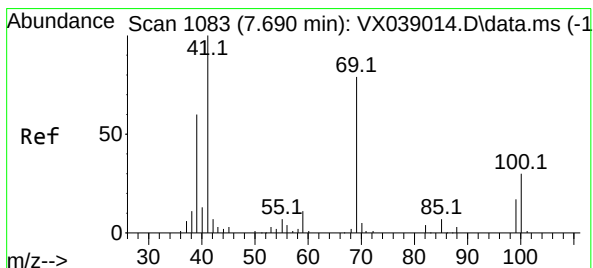
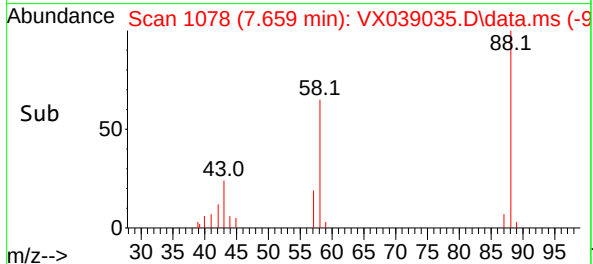
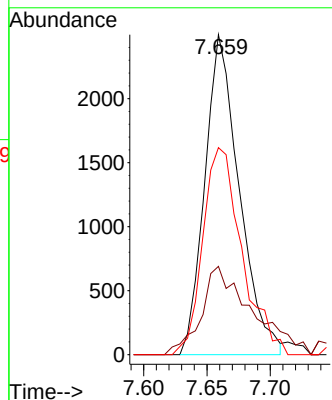
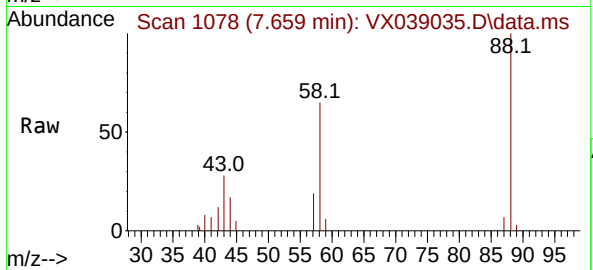
#45  
1,4-Dioxane  
Concen: 91.930 ug/l  
RT: 7.659 min Scan# 1078  
Delta R.T. 0.006 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Instrument :  
MSVOA\_X  
ClientSampleId :  
LOQ-WATER-02-QT4-2023

Tgt Ion: 88 Resp: 4734  
Ion Ratio Lower Upper  
88 100  
43 40.6 28.1 42.1  
58 68.8 57.7 86.5

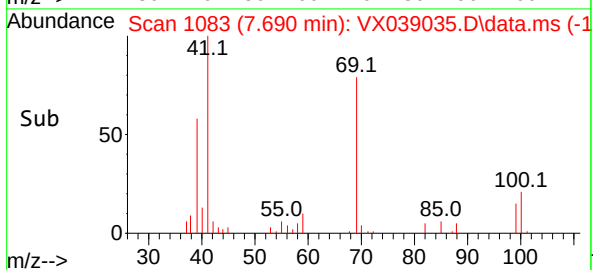
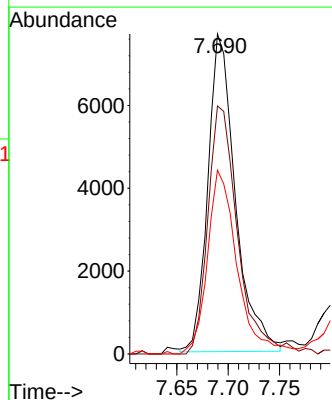
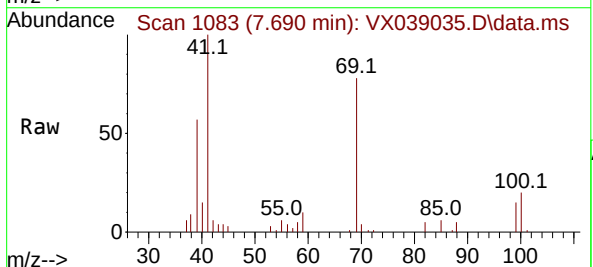
Manual Integrations  
APPROVED

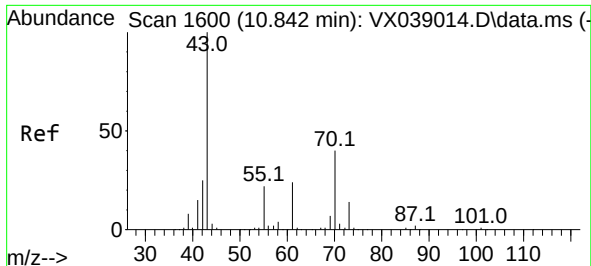
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



#46  
Methyl methacrylate  
Concen: 4.967 ug/l  
RT: 7.690 min Scan# 1083  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Tgt Ion: 41 Resp: 14326  
Ion Ratio Lower Upper  
41 100  
69 78.7 39.6 118.8  
39 58.3 30.1 90.3





#47

n-amyl acetate

Concen: 4.653 ug/l

RT: 10.841 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX039035.D

Acq: 27 Nov 2023 12:40

Instrument :

MSVOA\_X

ClientSampleId :

LOQ-WATER-02-QT4-2023

Tgt Ion: 43 Resp: 1986

Ion Ratio Lower Upper

43 100

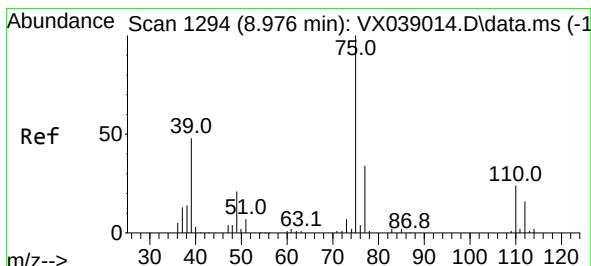
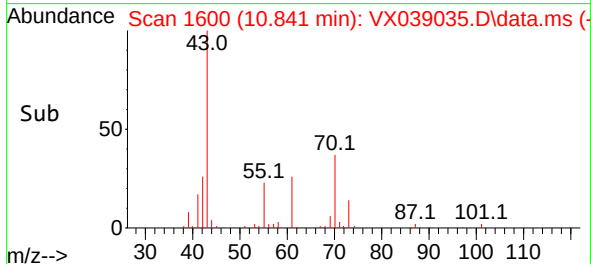
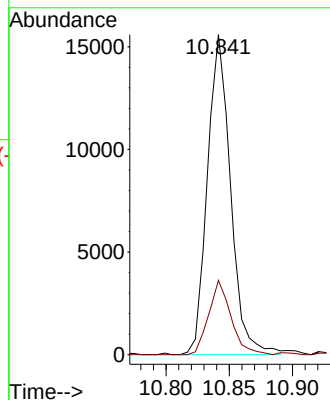
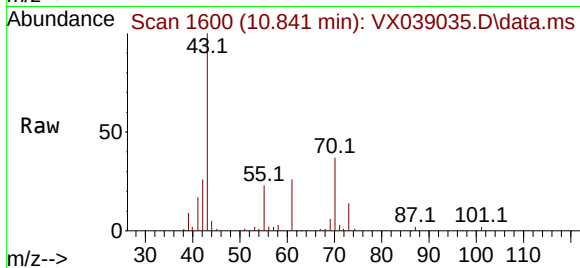
55 22.4 18.2 27.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/28/2023

Supervised By :Mahesh Dadoda 11/28/2023



#48

t-1,3-Dichloropropene

Concen: 4.853 ug/l

RT: 8.976 min Scan# 1294

Delta R.T. -0.000 min

Lab File: VX039035.D

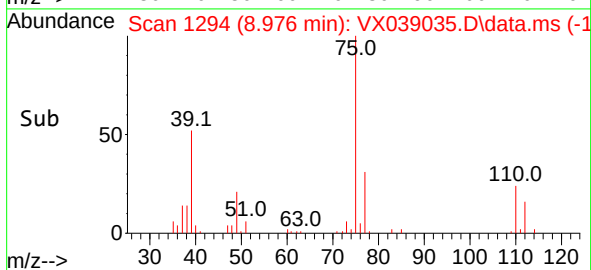
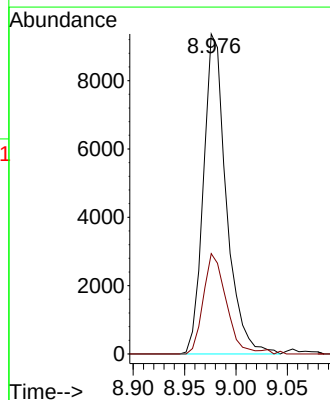
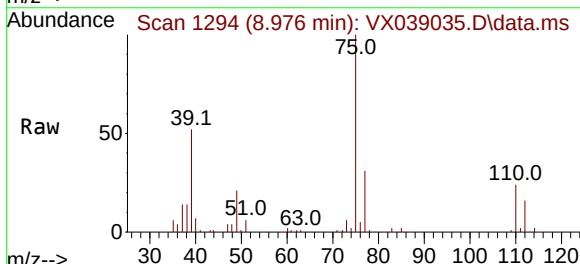
Acq: 27 Nov 2023 12:40

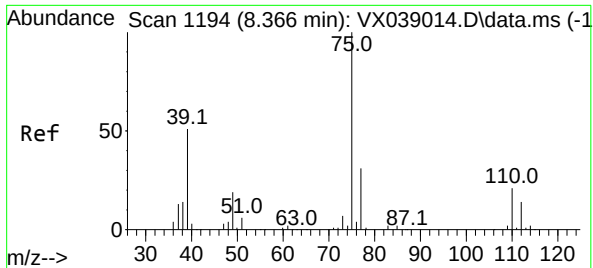
Tgt Ion: 75 Resp: 14498

Ion Ratio Lower Upper

75 100

77 31.4 26.8 40.2





#49

cis-1,3-Dichloropropene

Concen: 4.906 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX039035.D

Acq: 27 Nov 2023 12:40

Instrument :

MSVOA\_X

ClientSampleId :

LOQ-WATER-02-QT4-2023

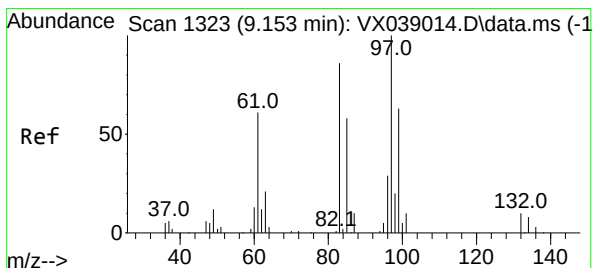
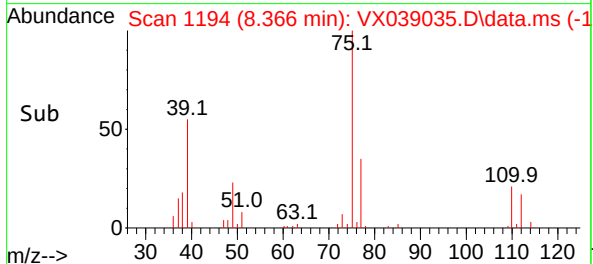
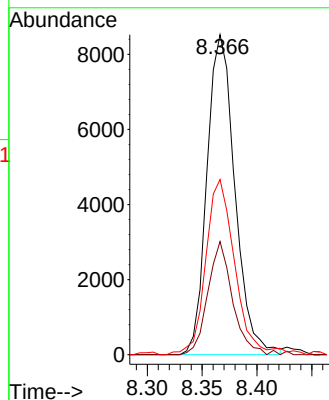
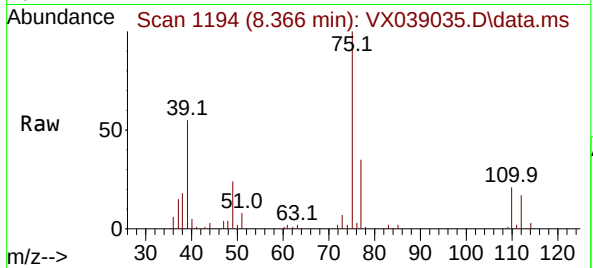
|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 1511  |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 77 35.4     | 24.4 36.6   |
| 39 53.9     | 40.6 60.8   |

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/28/2023

Supervised By :Mahesh Dadoda 11/28/2023



#50

1,1,2-Trichloroethane

Concen: 5.048 ug/l

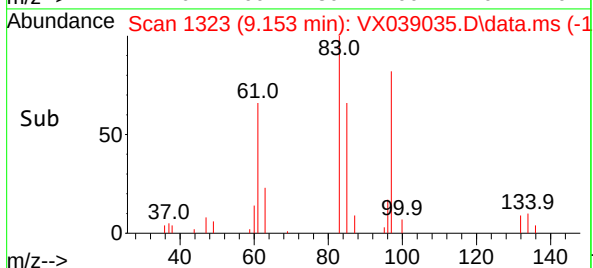
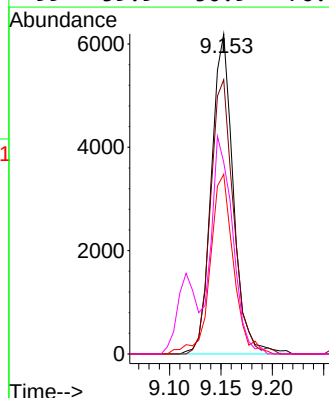
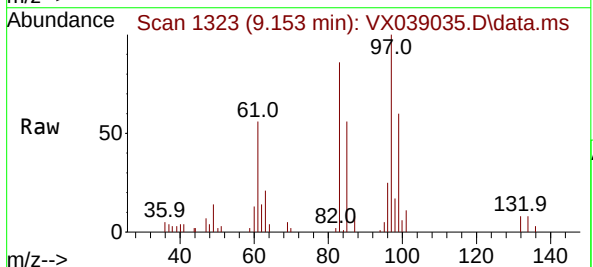
RT: 9.153 min Scan# 1323

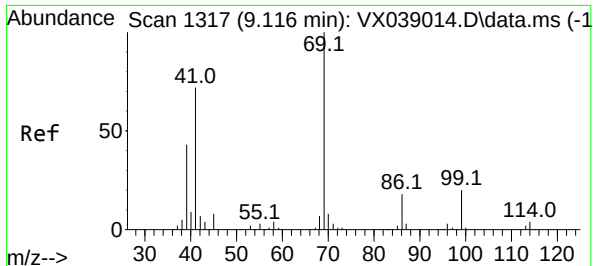
Delta R.T. -0.000 min

Lab File: VX039035.D

Acq: 27 Nov 2023 12:40

|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 9195  |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 83 85.7     | 69.0 103.6  |
| 85 56.2     | 46.3 69.5   |
| 99 59.9     | 50.9 76.3   |





#51

Ethyl methacrylate

Concen: 4.940 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VX039035.D

Acq: 27 Nov 2023 12:40

Instrument :

MSVOA\_X

ClientSampleId :

LOQ-WATER-02-QT4-2023

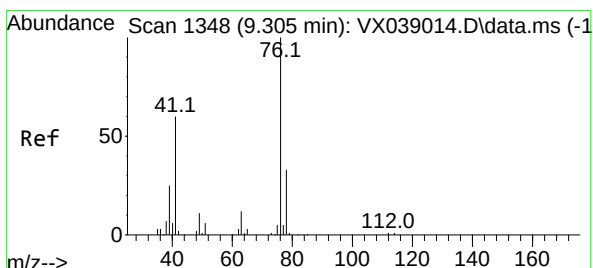
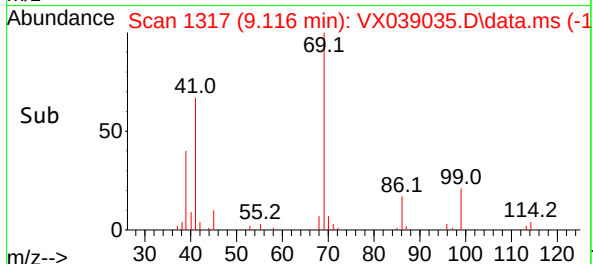
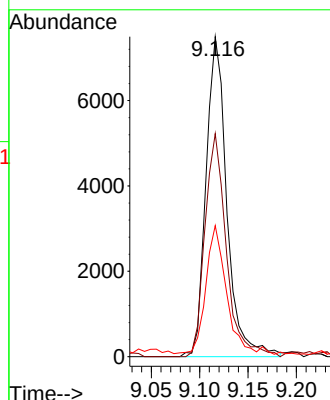
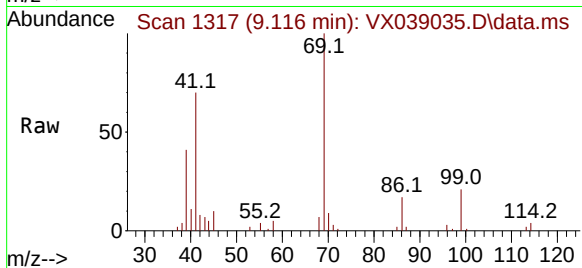
|             |             |
|-------------|-------------|
| Tgt Ion: 69 | Resp: 11264 |
| Ion Ratio   | Lower Upper |
| 69 100      |             |
| 41 69.7     | 36.2 108.6  |
| 39 39.8     | 21.1 63.4   |

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/28/2023

Supervised By :Mahesh Dadoda 11/28/2023



#52

1,3-Dichloropropane

Concen: 5.184 ug/l

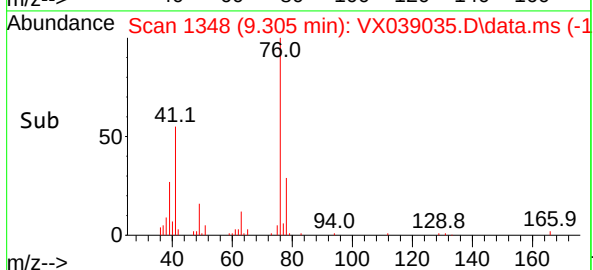
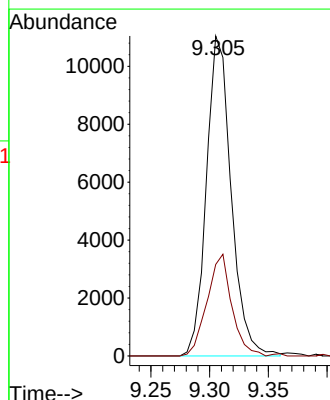
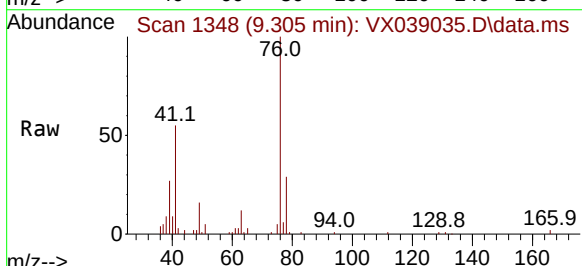
RT: 9.305 min Scan# 1348

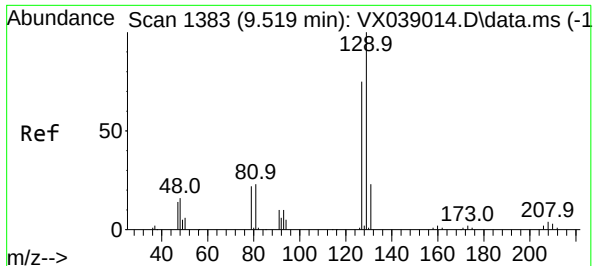
Delta R.T. -0.000 min

Lab File: VX039035.D

Acq: 27 Nov 2023 12:40

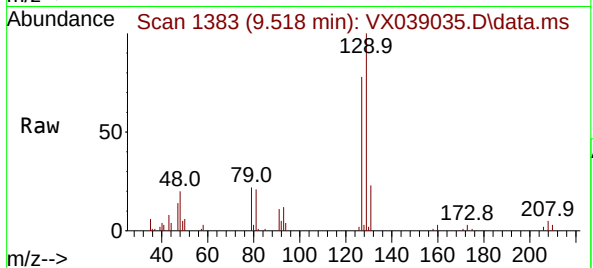
|             |             |
|-------------|-------------|
| Tgt Ion: 76 | Resp: 16194 |
| Ion Ratio   | Lower Upper |
| 76 100      |             |
| 78 31.7     | 0.0 65.0    |





#53  
Dibromochloromethane  
Concen: 4.726 ug/l  
RT: 9.518 min Scan# 1383  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

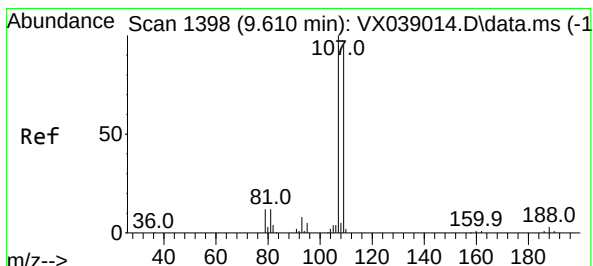
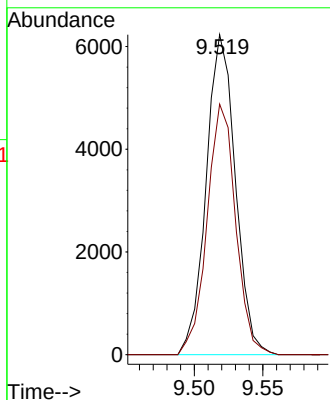
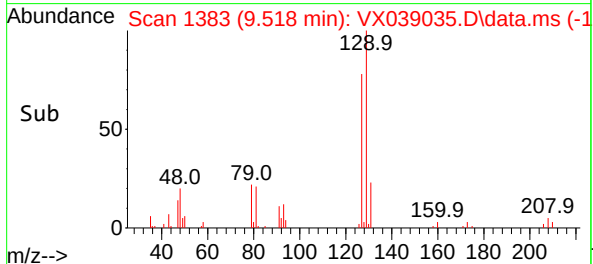
Instrument : MSVOA\_X  
ClientSampleId : LOQ-WATER-02-QT4-2023



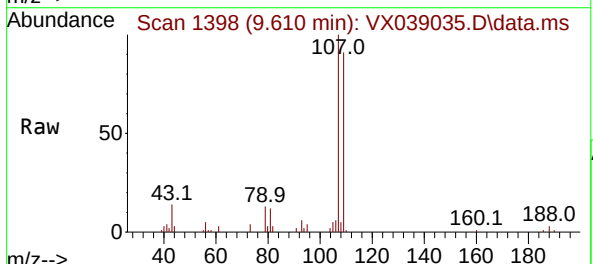
Tgt Ion:129 Resp: 9240  
Ion Ratio Lower Upper  
129 100  
127 76.5 38.3 114.9

Manual Integrations  
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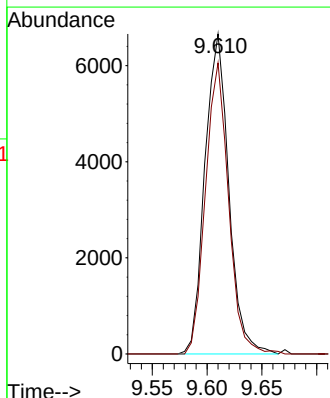
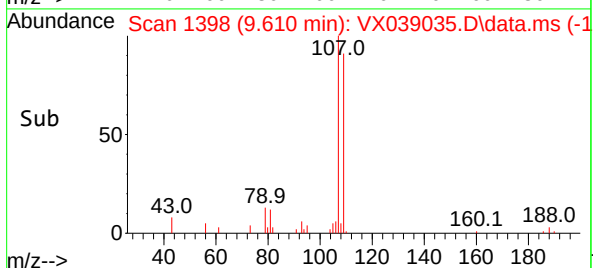
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023

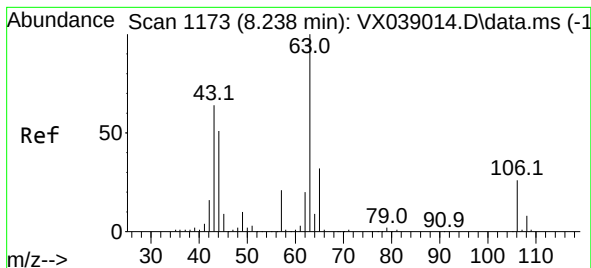


#54  
1,2-Dibromoethane  
Concen: 5.067 ug/l  
RT: 9.610 min Scan# 1398  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40



Tgt Ion:107 Resp: 10122  
Ion Ratio Lower Upper  
107 100  
109 87.3 75.1 112.7





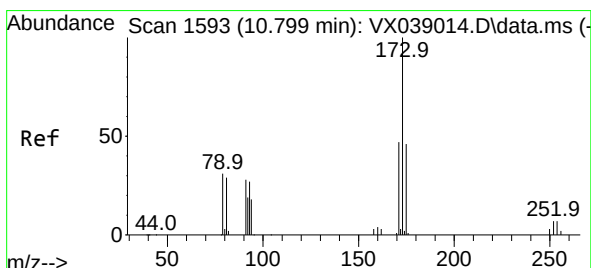
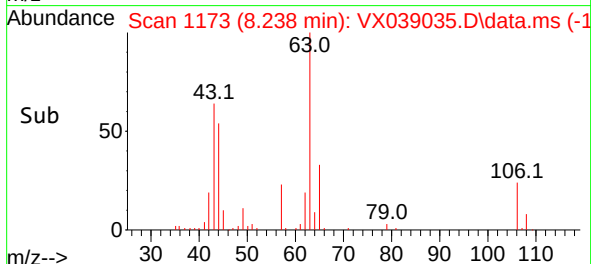
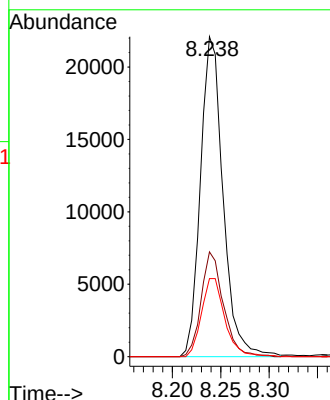
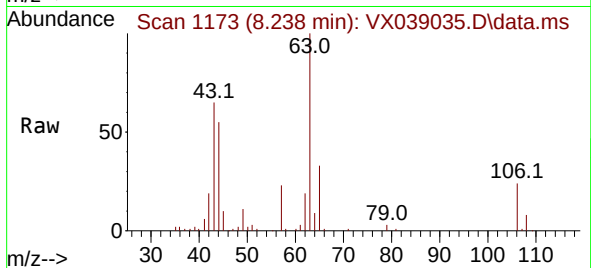
#55  
2-Chloroethyl vinyl ether  
Concen: 24.920 ug/l  
RT: 8.238 min Scan# 1173  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Instrument : MSVOA\_X  
ClientSampleId : LOQ-WATER-02-QT4-2023

Tgt Ion: 63 Resp: 36018  
Ion Ratio Lower Upper  
63 100  
65 32.0 25.8 38.6  
106 25.1 20.6 31.0

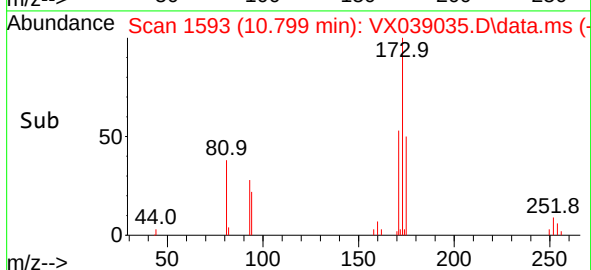
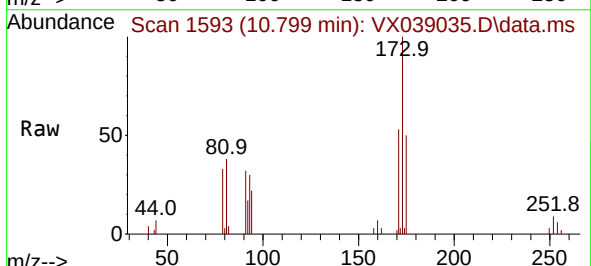
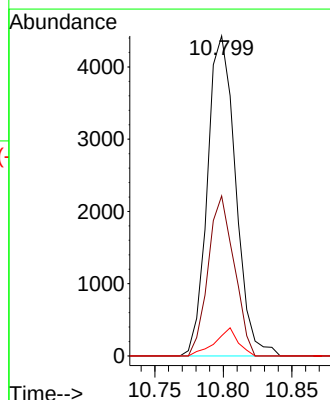
Manual Integrations  
APPROVED

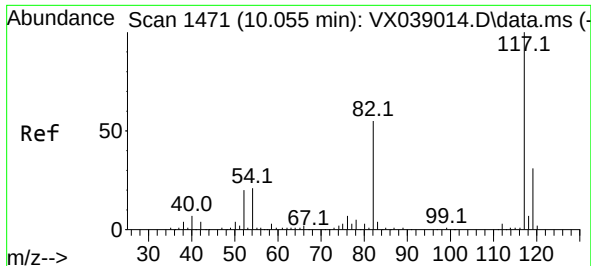
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



#56  
Bromoform  
Concen: 4.492 ug/l  
RT: 10.799 min Scan# 1593  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

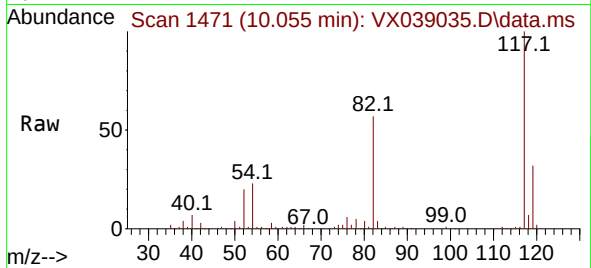
Tgt Ion:173 Resp: 6343  
Ion Ratio Lower Upper  
173 100  
175 46.1 37.6 56.4  
254 7.2 5.8 8.8





#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

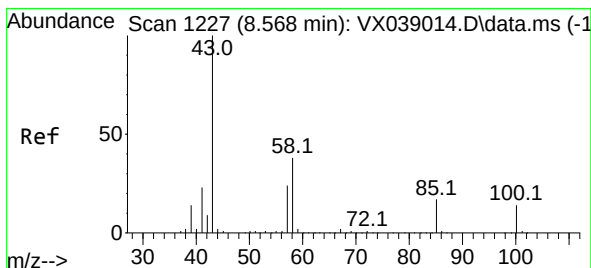
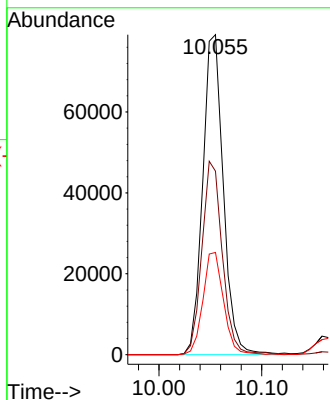
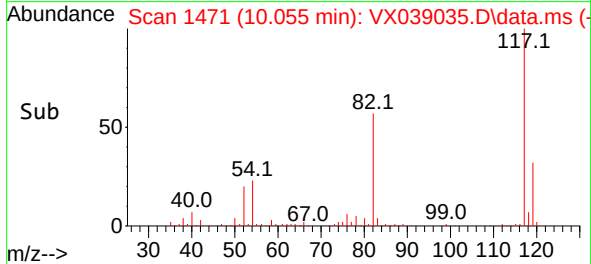
Instrument : MSVOA\_X  
ClientSampleId : LOQ-WATER-02-QT4-2023



Tgt Ion: 117 Resp: 110425  
Ion Ratio Lower Upper  
117 100  
82 60.1 47.0 70.6  
119 31.9 25.2 37.8

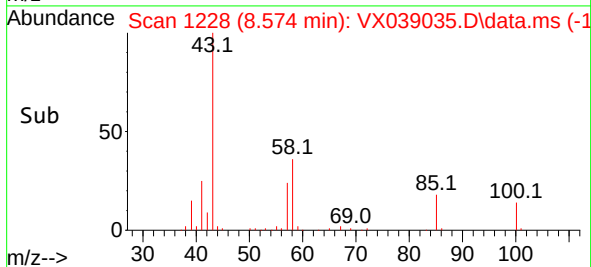
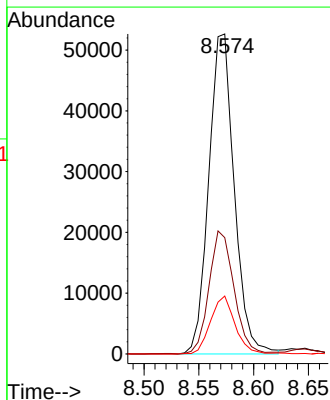
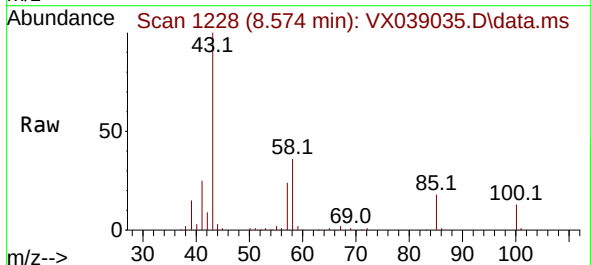
Manual Integrations  
APPROVED

Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023

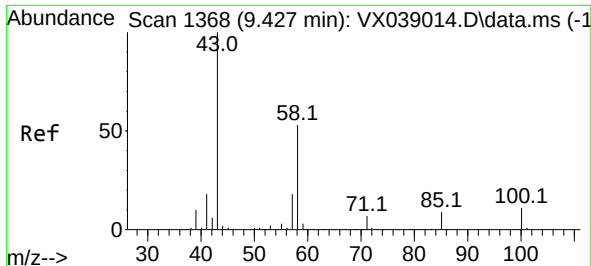


#58  
4-Methyl-2-Pentanone  
Concen: 25.451 ug/l  
RT: 8.574 min Scan# 1228  
Delta R.T. 0.006 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Tgt Ion: 43 Resp: 85227  
Ion Ratio Lower Upper  
43 100  
58 37.5 30.1 45.1  
85 17.0 13.9 20.9







#59

2-Hexanone

Concen: 28.630 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.000 min

Lab File: VX039035.D

Acq: 27 Nov 2023 12:40

Instrument :

MSVOA\_X

ClientSampleId :

LOQ-WATER-02-QT4-2023

Tgt Ion: 43 Resp: 7869

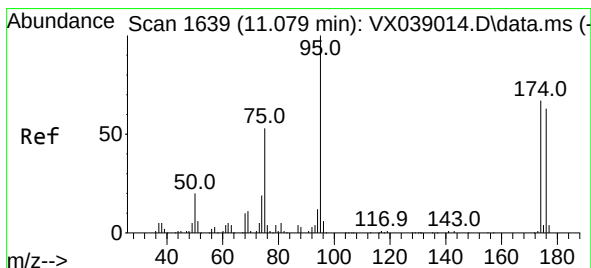
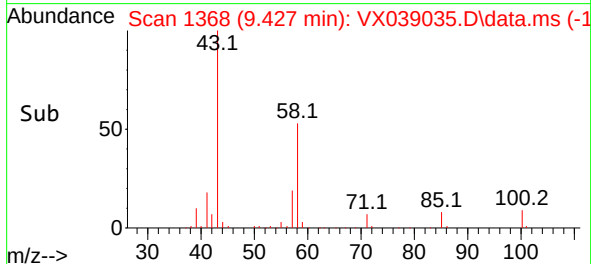
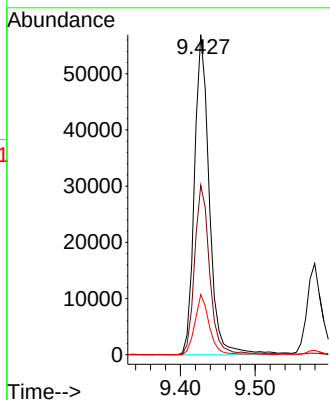
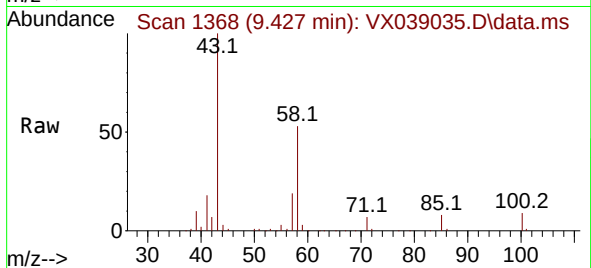
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 52.7  | 42.7  | 64.1  |
| 57  | 18.1  | 14.8  | 22.2  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/28/2023

Supervised By :Mahesh Dadoda 11/28/2023



#60

4-Bromofluorobenzene

Concen: 29.476 ug/l

RT: 11.079 min Scan# 1639

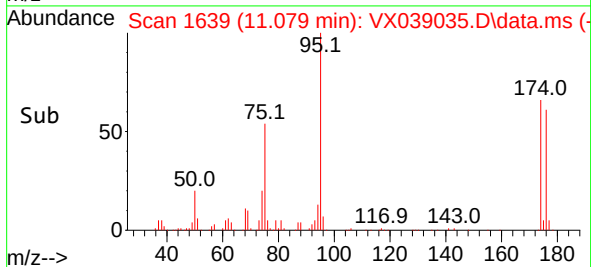
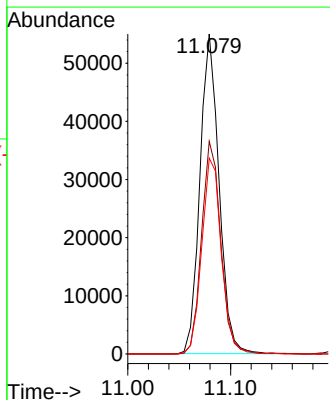
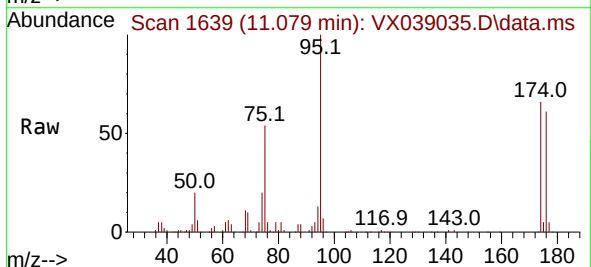
Delta R.T. -0.000 min

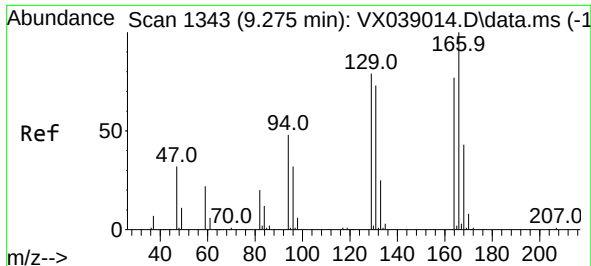
Lab File: VX039035.D

Acq: 27 Nov 2023 12:40

Tgt Ion: 95 Resp: 71092

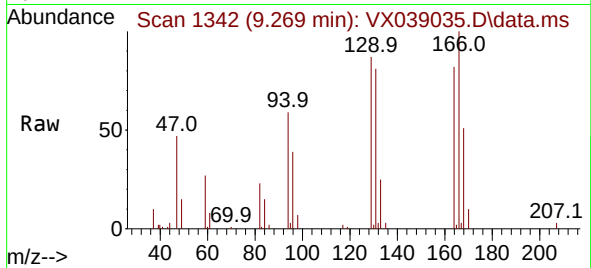
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 174 | 66.7  | 55.4  | 83.2  |
| 176 | 62.7  | 52.6  | 78.8  |





#61  
Tetrachloroethene  
Concen: 5.078 ug/l  
RT: 9.269 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

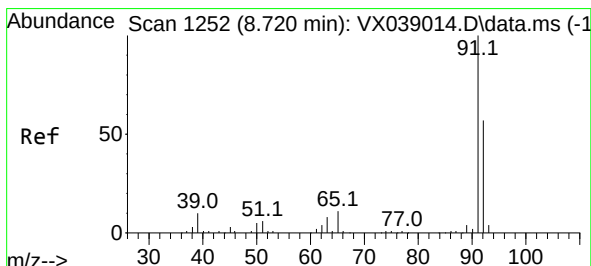
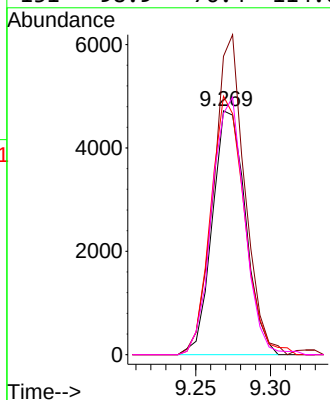
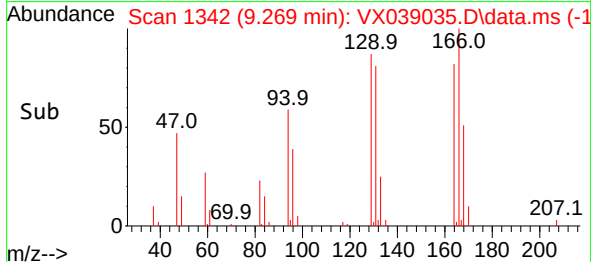
Instrument : MSVOA\_X  
ClientSampleId : LOQ-WATER-02-QT4-2023



Tgt Ion:164 Resp: 729  
Ion Ratio Lower Upper  
164 100  
166 122.4 104.0 156.0  
129 106.0 82.0 123.0  
131 98.9 76.4 114.6

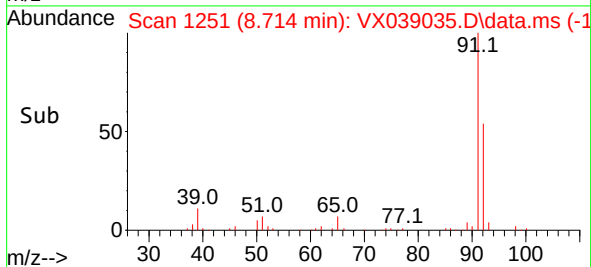
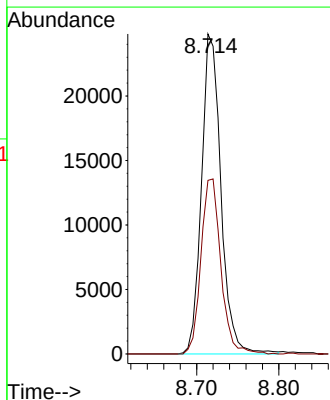
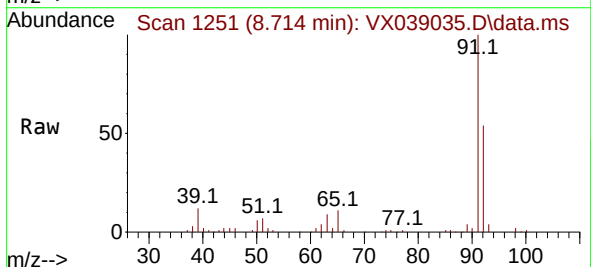
Manual Integrations  
APPROVED

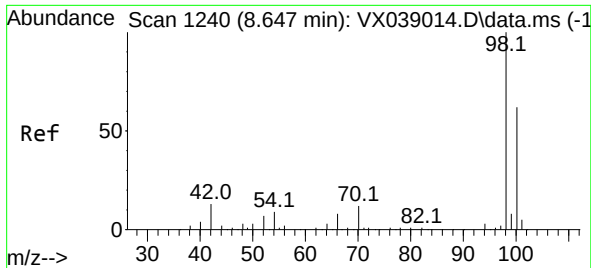
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



#62  
Toluene  
Concen: 5.203 ug/l  
RT: 8.714 min Scan# 1251  
Delta R.T. -0.006 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

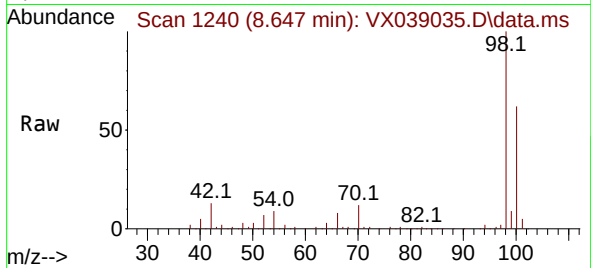
Tgt Ion: 91 Resp: 40788  
Ion Ratio Lower Upper  
91 100  
92 55.9 45.9 68.9





#63  
Toluene-d8  
Concen: 30.634 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

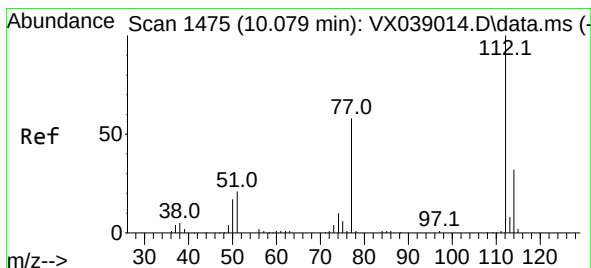
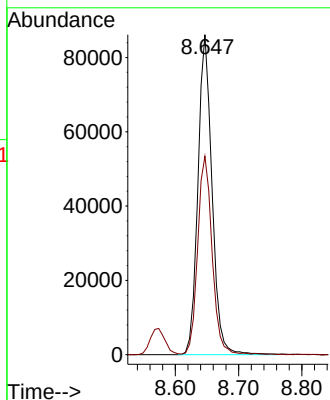
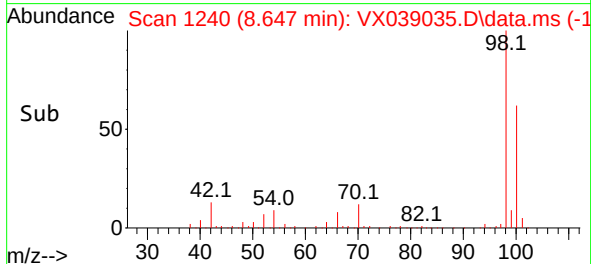
Instrument :  
MSVOA\_X  
ClientSampleId :  
LOQ-WATER-02-QT4-2023



Tgt Ion: 98 Resp: 133744  
Ion Ratio Lower Upper  
98 100  
100 63.5 51.0 76.4

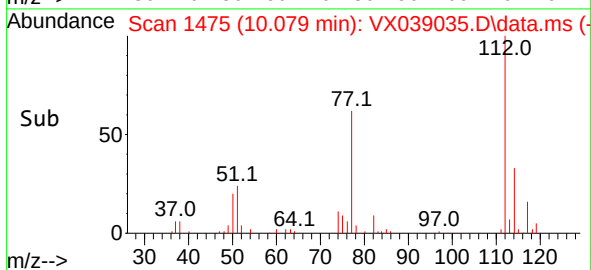
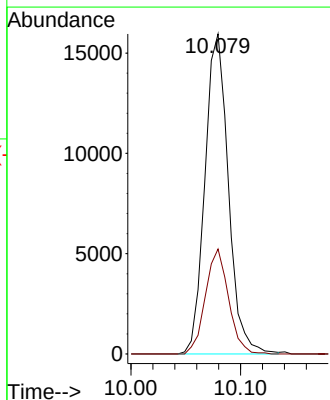
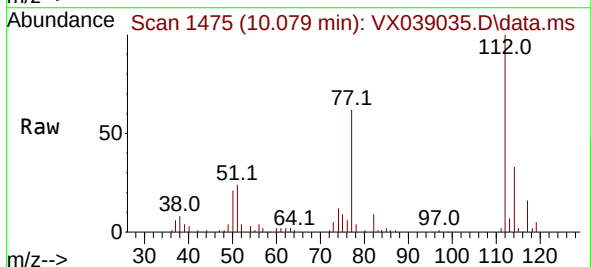
Manual Integrations  
APPROVED

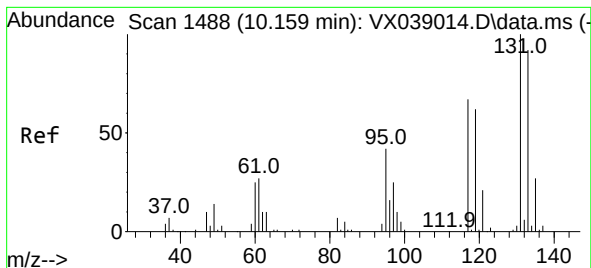
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



#64  
Chlorobenzene  
Concen: 4.978 ug/l  
RT: 10.079 min Scan# 1475  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Tgt Ion:112 Resp: 23739  
Ion Ratio Lower Upper  
112 100  
114 32.8 25.9 38.9





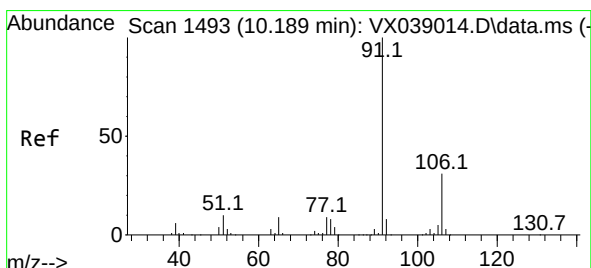
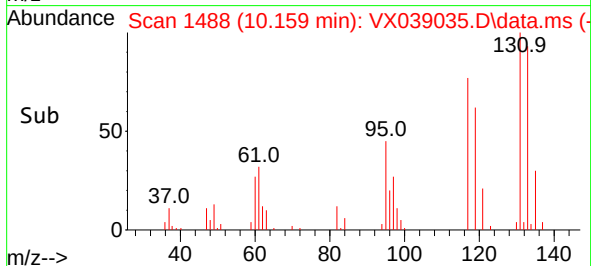
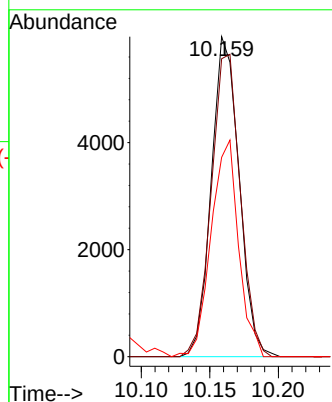
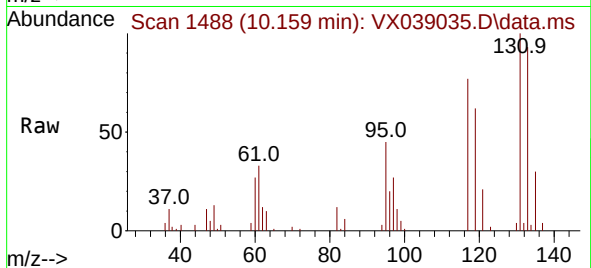
#65  
1,1,1,2-Tetrachloroethane  
Concen: 4.901 ug/l  
RT: 10.159 min Scan# 1488  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Instrument : MSVOA\_X  
ClientSampleId : LOQ-WATER-02-QT4-2023

Tgt Ion:131 Resp: 841  
Ion Ratio Lower Upper  
131 100  
133 99.0 0.0 191.8  
119 67.1 0.0 135.4

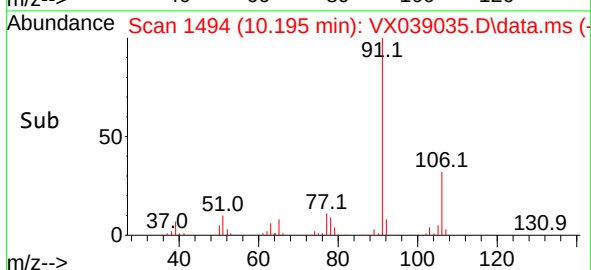
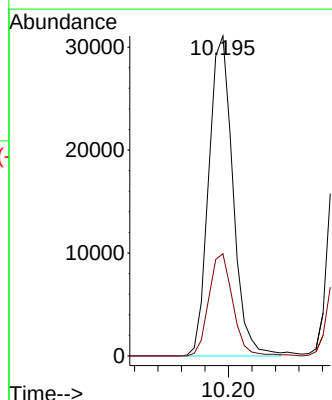
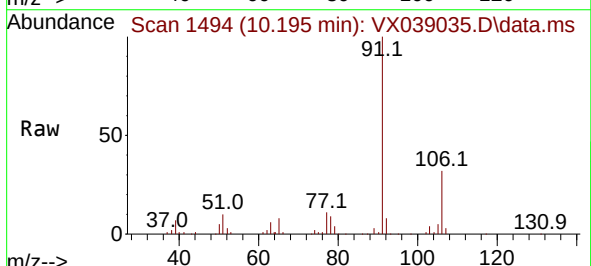
Manual Integrations  
APPROVED

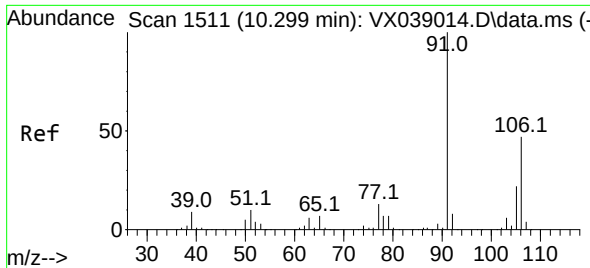
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



#66  
Ethyl Benzene  
Concen: 4.977 ug/l  
RT: 10.195 min Scan# 1494  
Delta R.T. 0.006 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Tgt Ion: 91 Resp: 44432  
Ion Ratio Lower Upper  
91 100  
106 31.9 24.4 36.6





#67

m/p-Xylenes

Concen: 9.976 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX039035.D

Acq: 27 Nov 2023 12:40

Instrument :

MSVOA\_X

ClientSampleId :

LOQ-WATER-02-QT4-2023

Tgt Ion:106 Resp: 32908

Ion Ratio Lower Upper

106 100

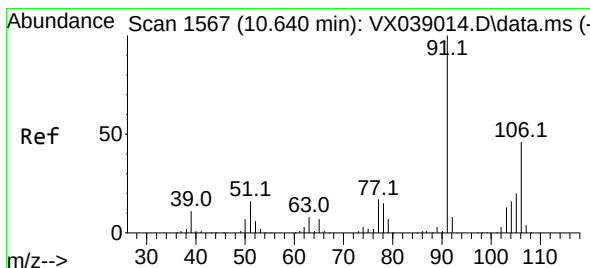
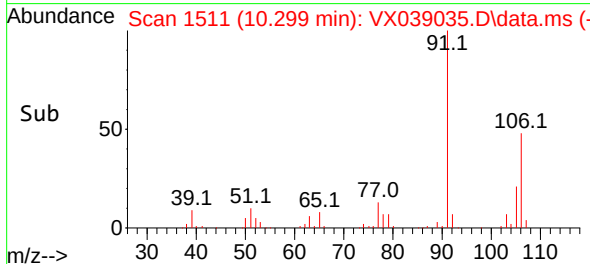
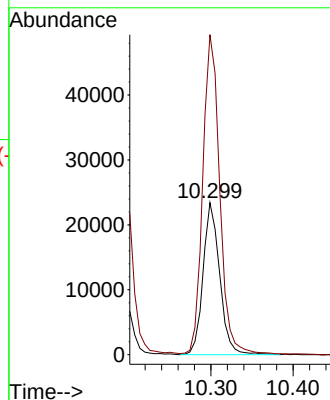
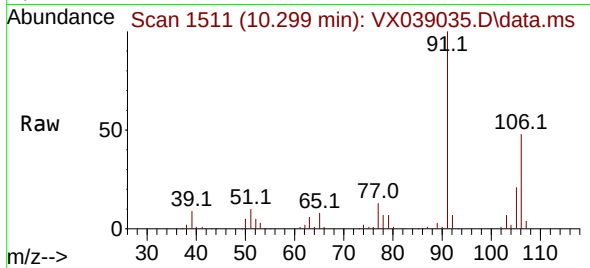
91 213.9 169.4 254.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/28/2023

Supervised By :Mahesh Dadoda 11/28/2023



#68

o-Xylene

Concen: 5.077 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX039035.D

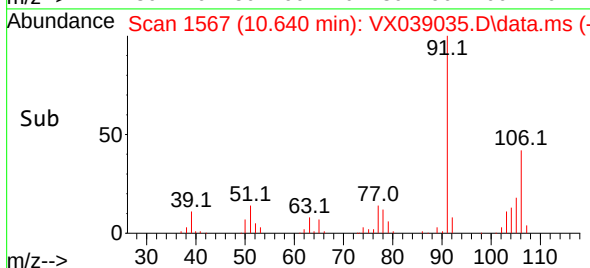
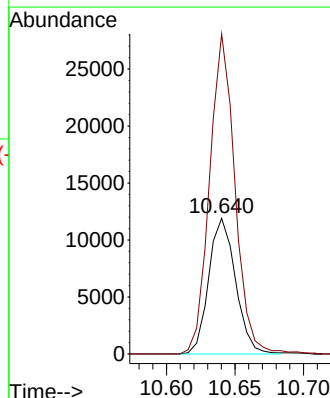
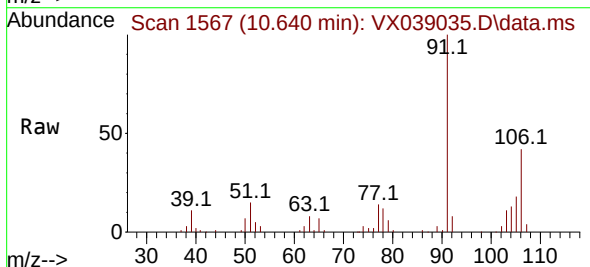
Acq: 27 Nov 2023 12:40

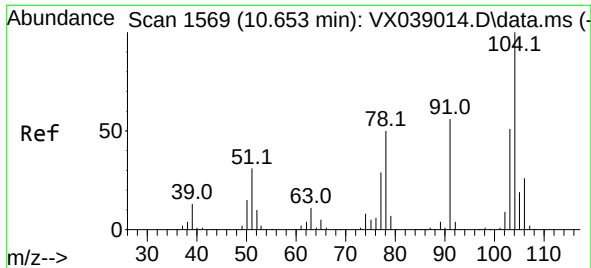
Tgt Ion:106 Resp: 16222

Ion Ratio Lower Upper

106 100

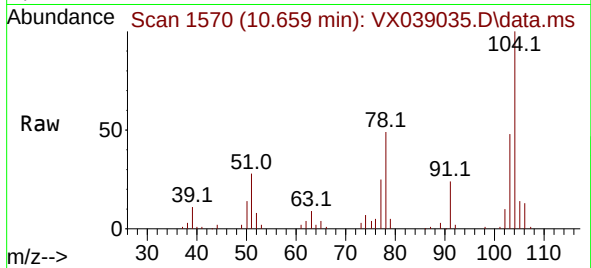
91 223.2 111.2 333.6





#69  
Styrene  
Concen: 4.815 ug/l  
RT: 10.659 min Scan# 1569  
Delta R.T. 0.006 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

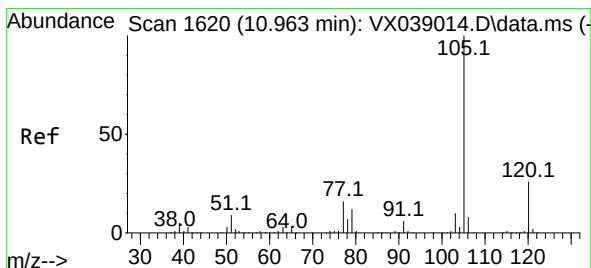
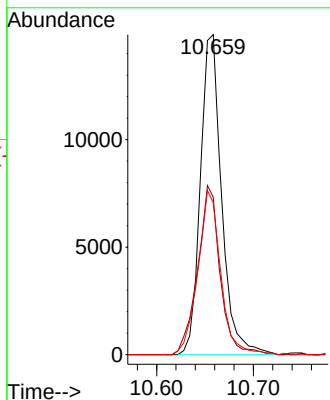
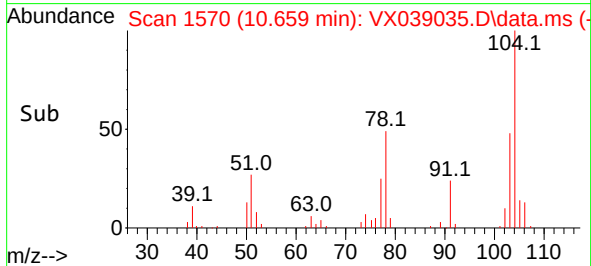
Instrument : MSVOA\_X  
ClientSampleId : LOQ-WATER-02-QT4-2023



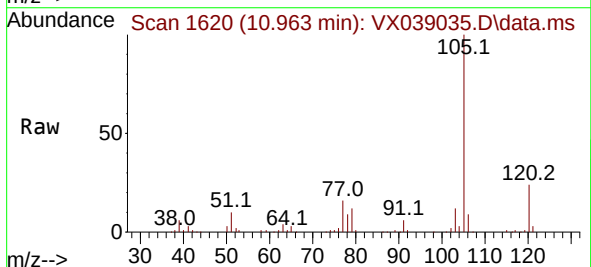
Tgt Ion:104 Resp: 22770  
Ion Ratio Lower Upper  
104 100  
78 54.7 43.7 65.5  
103 55.1 44.6 67.0

Manual Integrations  
APPROVED

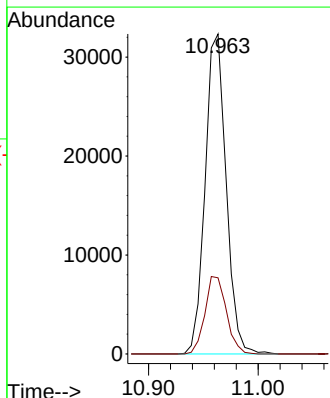
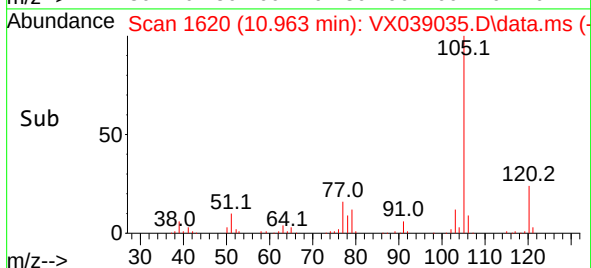
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023

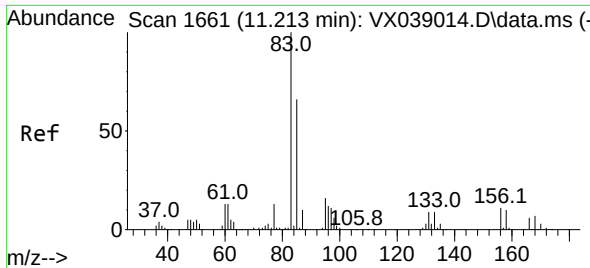


#70  
Isopropylbenzene  
Concen: 5.032 ug/l  
RT: 10.963 min Scan# 1620  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40



Tgt Ion:105 Resp: 43018  
Ion Ratio Lower Upper  
105 100  
120 24.7 18.5 34.3





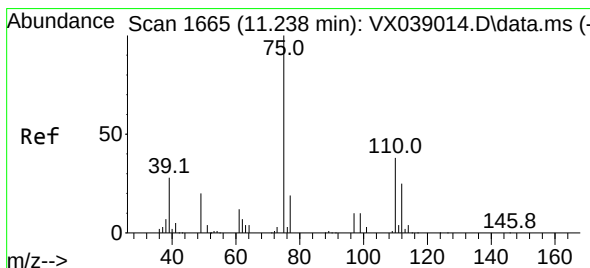
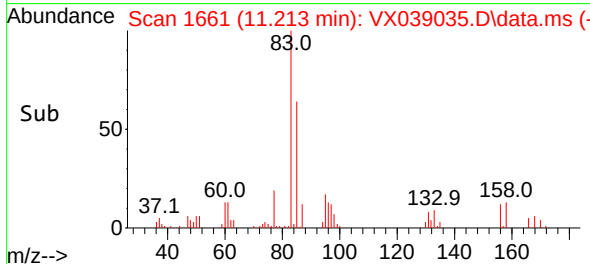
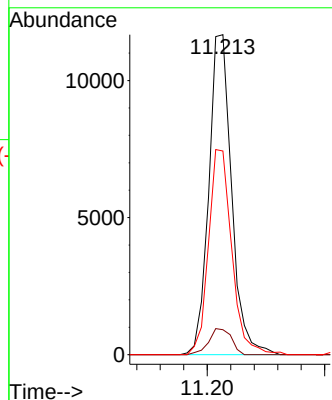
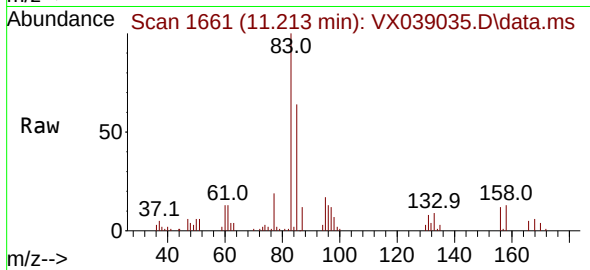
#71  
1,1,2,2-Tetrachloroethane  
Concen: 4.935 ug/l  
RT: 11.213 min Scan# 1661  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Instrument : MSVOA\_X  
ClientSampleId : LOQ-WATER-02-QT4-2023

Tgt Ion: 83 Resp: 1575  
Ion Ratio Lower Upper  
83 100  
131 8.0 4.6 13.8  
85 65.1 32.5 97.4

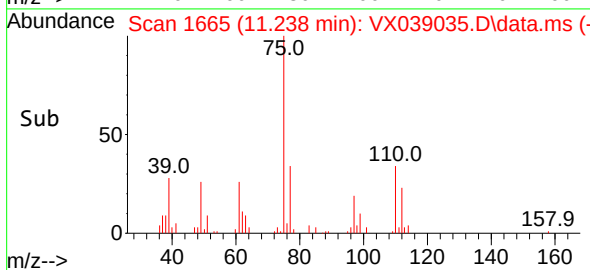
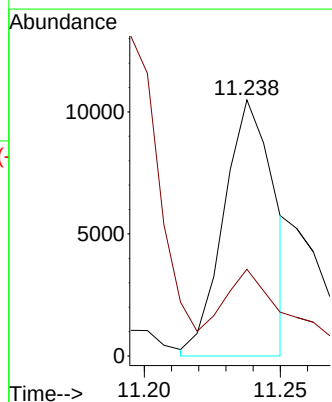
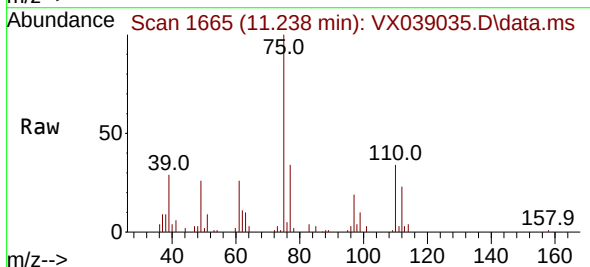
Manual Integrations  
APPROVED

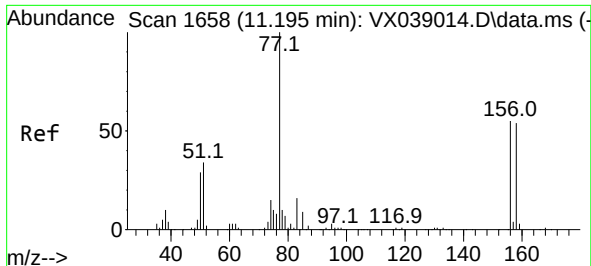
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



#72  
1,2,3-Trichloropropane  
Concen: 4.984 ug/l m  
RT: 11.238 min Scan# 1665  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

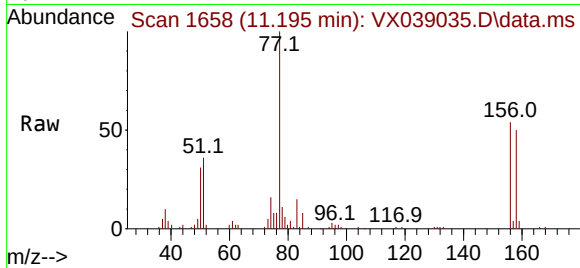
Tgt Ion: 75 Resp: 13459  
Ion Ratio Lower Upper  
75 100  
77 46.5 0.0 76.4





#73  
Bromobenzene  
Concen: 4.841 ug/l  
RT: 11.195 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

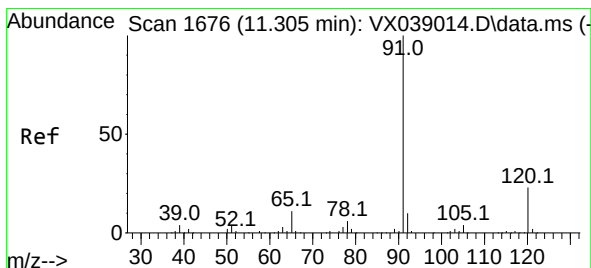
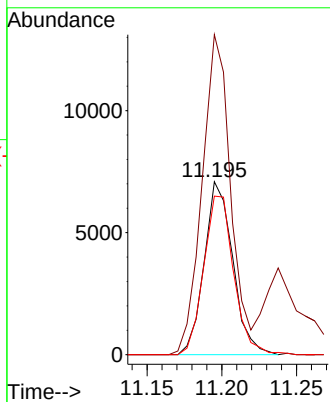
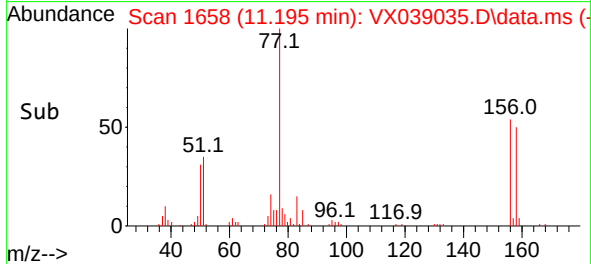
Instrument :  
MSVOA\_X  
ClientSampleId :  
LOQ-WATER-02-QT4-2023



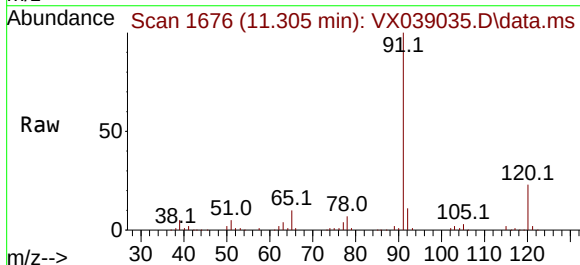
Tgt Ion:156 Resp: 942  
Ion Ratio Lower Upper  
156 100  
77 184.0 0.0 363.2  
158 95.9 0.0 197.8

Manual Integrations  
APPROVED

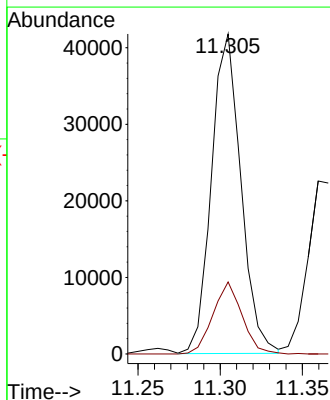
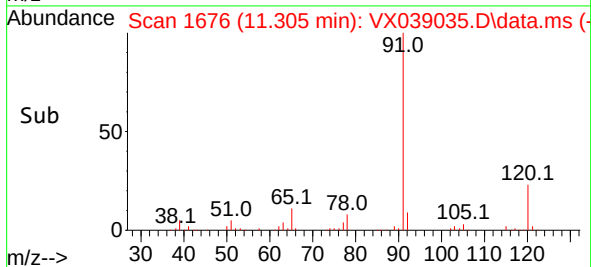
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



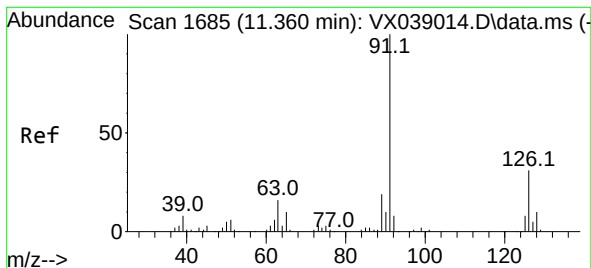
#74  
n-propylbenzene  
Concen: 4.966 ug/l  
RT: 11.305 min Scan# 1676  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40



Tgt Ion: 91 Resp: 52022  
Ion Ratio Lower Upper  
91 100  
120 22.2 0.0 43.4







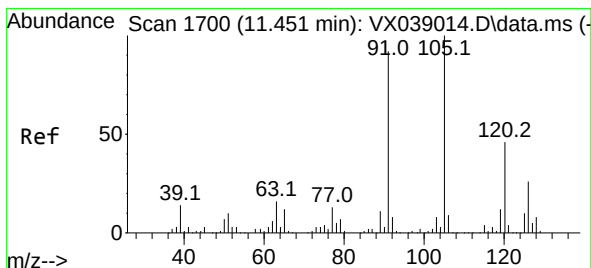
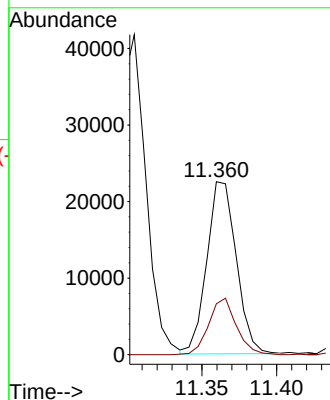
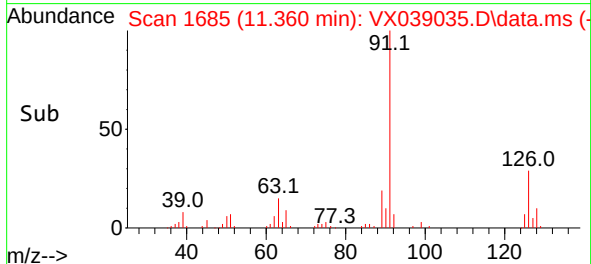
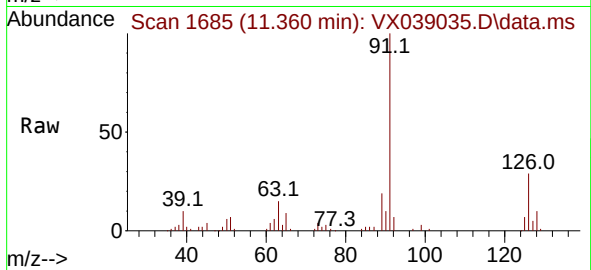
#75  
2-Chlorotoluene  
Concen: 5.019 ug/l  
RT: 11.360 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Instrument : MSVOA\_X  
ClientSampleId : LOQ-WATER-02-QT4-2023

Tgt Ion: 91 Resp: 30840  
Ion Ratio Lower Upper  
91 100  
126 30.7 0.0 64.2

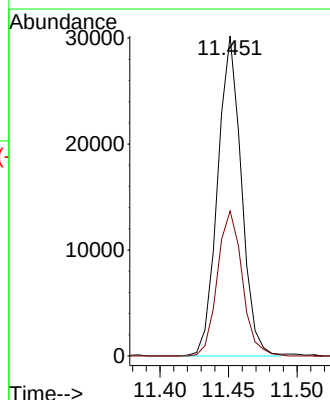
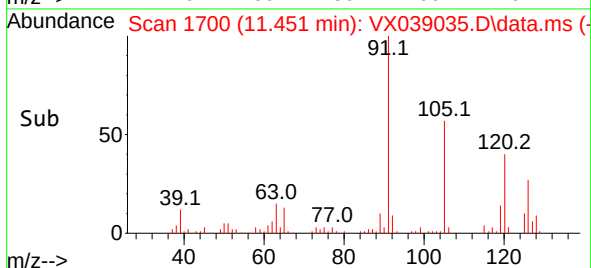
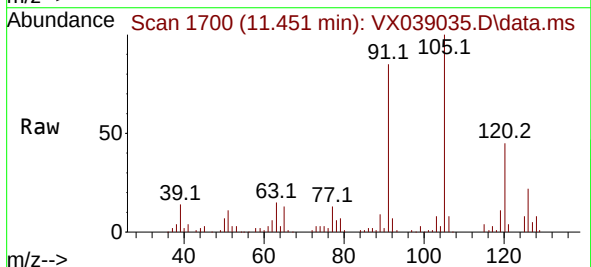
Manual Integrations  
APPROVED

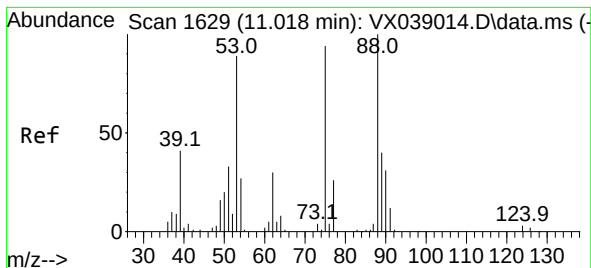
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



#76  
1,3,5-Trimethylbenzene  
Concen: 4.930 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

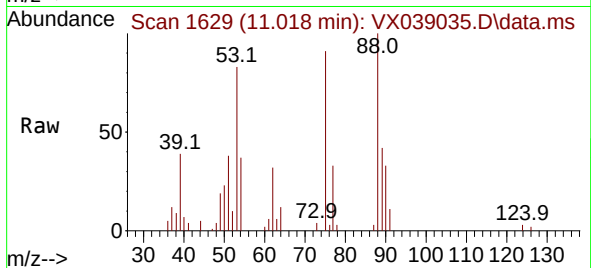
Tgt Ion:105 Resp: 36312  
Ion Ratio Lower Upper  
105 100  
120 47.4 0.0 92.6





#77  
t-1,4-Dichloro-2-butene  
Concen: 4.516 ug/l  
RT: 11.018 min Scan# 1629  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

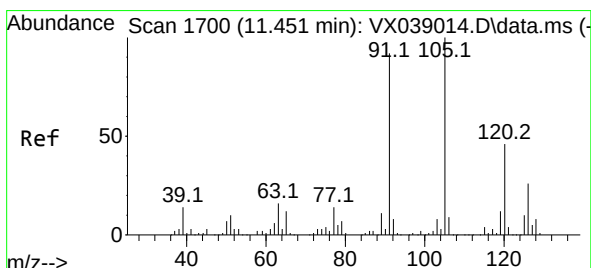
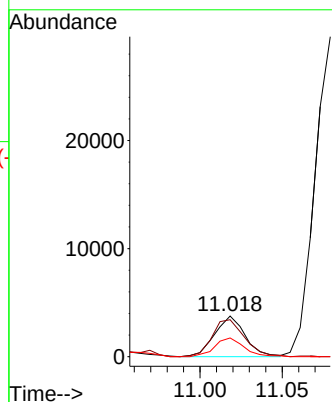
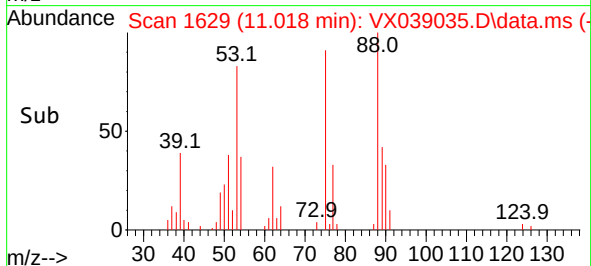
Instrument : MSVOA\_X  
ClientSampleId : LOQ-WATER-02-QT4-2023



Tgt Ion: 75 Resp: 483  
Ion Ratio Lower Upper  
75 100  
53 90.8 46.9 140.8  
89 45.9 21.3 63.7

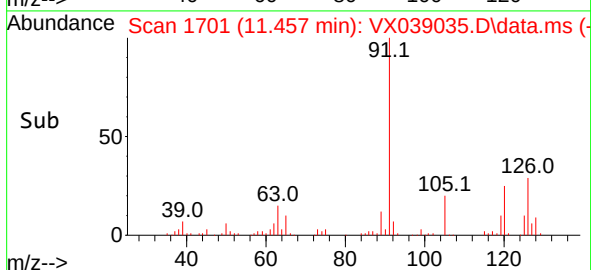
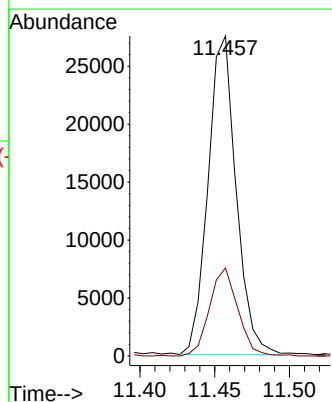
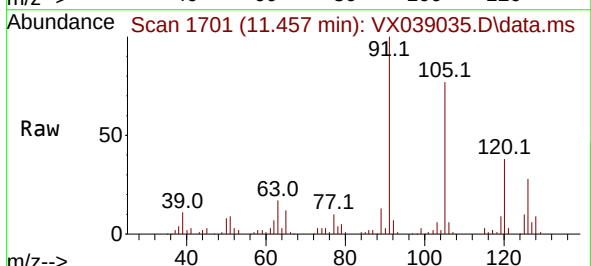
Manual Integrations  
APPROVED

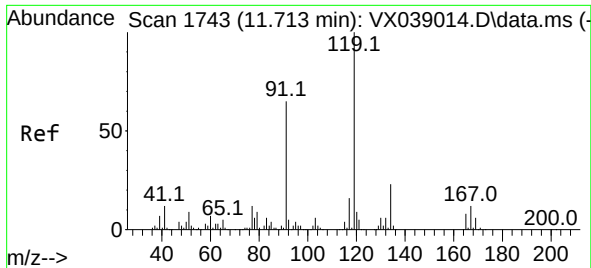
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



#78  
4-Chlorotoluene  
Concen: 4.980 ug/l  
RT: 11.457 min Scan# 1701  
Delta R.T. 0.006 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

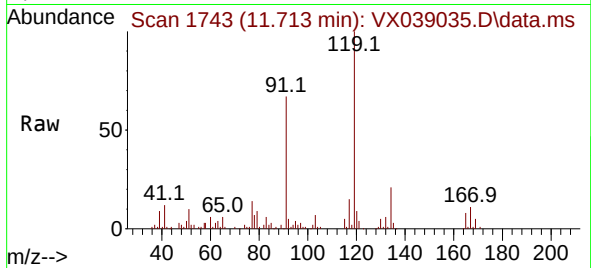
Tgt Ion: 91 Resp: 35982  
Ion Ratio Lower Upper  
91 100  
126 27.7 0.0 57.4





#79  
tert-butylbenzene  
Concen: 4.967 ug/l  
RT: 11.713 min Scan# 1743  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

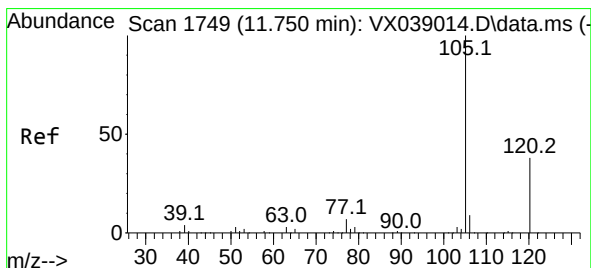
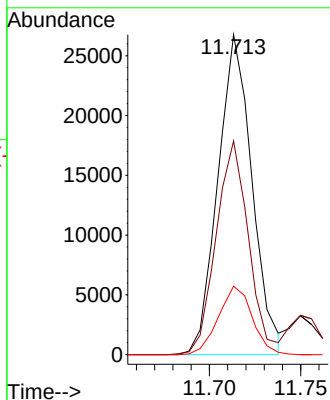
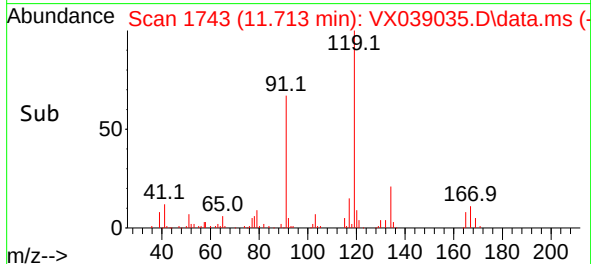
Instrument : MSVOA\_X  
ClientSampleId : LOQ-WATER-02-QT4-2023



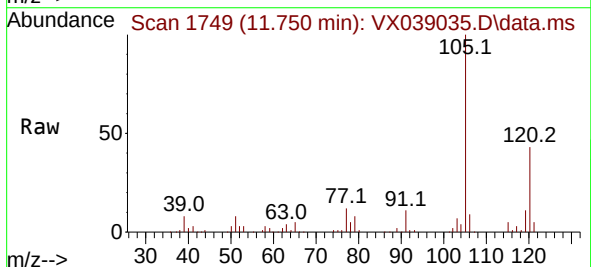
Tgt Ion:119 Resp: 34789  
Ion Ratio Lower Upper  
119 100  
91 63.6 0.0 125.6  
134 21.3 0.0 43.8

Manual Integrations  
APPROVED

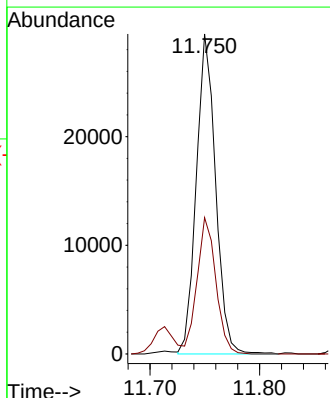
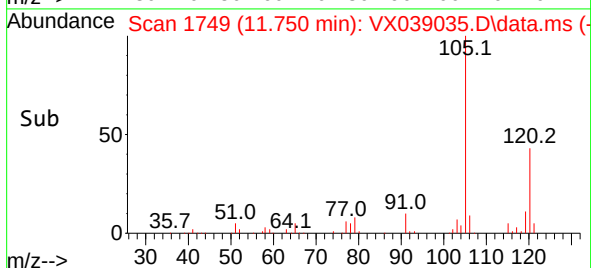
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023

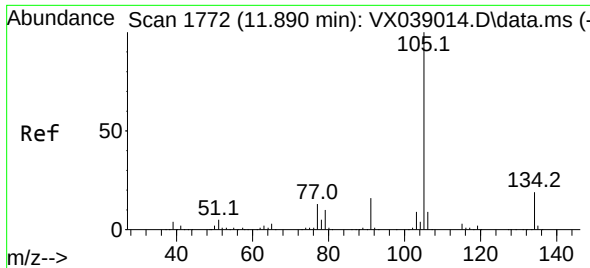


#80  
1,2,4-Trimethylbenzene  
Concen: 4.886 ug/l  
RT: 11.750 min Scan# 1749  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40



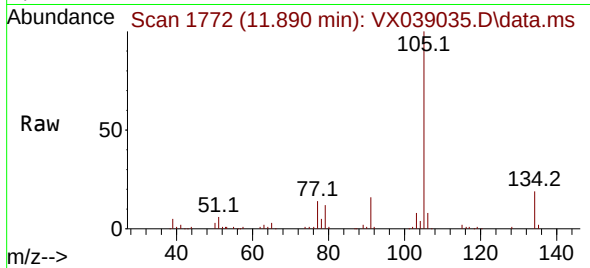
Tgt Ion:105 Resp: 36013  
Ion Ratio Lower Upper  
105 100  
120 41.4 0.0 86.4





#81  
 sec-Butylbenzene  
 Concen: 5.038 ug/l  
 RT: 11.890 min Scan# 1772  
 Delta R.T. -0.000 min  
 Lab File: VX039035.D  
 Acq: 27 Nov 2023 12:40

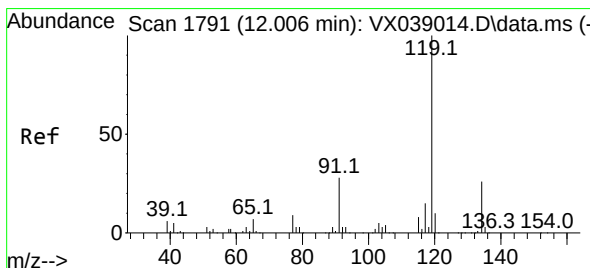
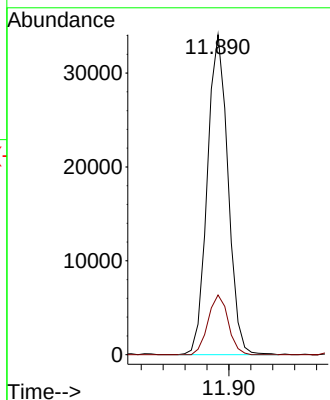
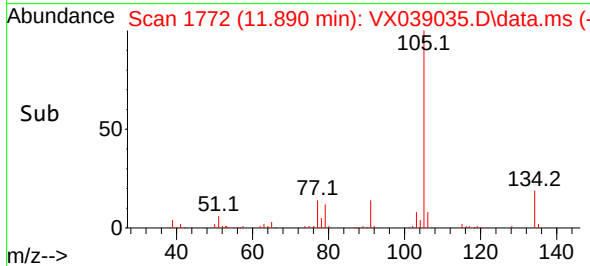
Instrument : MSVOA\_X  
 ClientSampleId : LOQ-WATER-02-QT4-2023



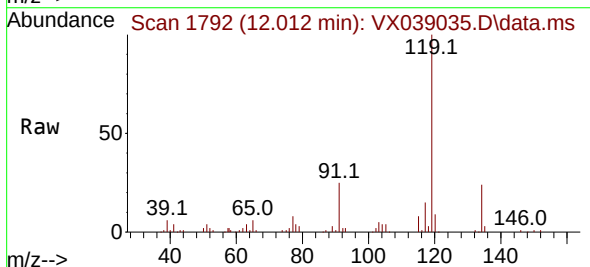
Tgt Ion:105 Resp: 4460  
 Ion Ratio Lower Upper  
 105 100  
 134 18.1 0.0 38.4

Manual Integrations  
 APPROVED

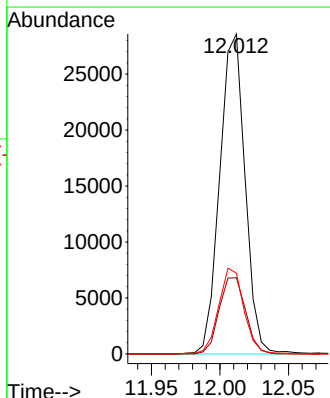
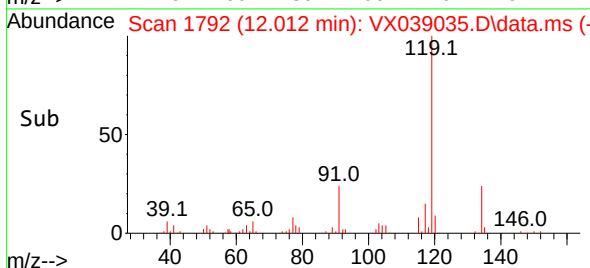
Reviewed By :John Carlone 11/28/2023  
 Supervised By :Mahesh Dadoda 11/28/2023

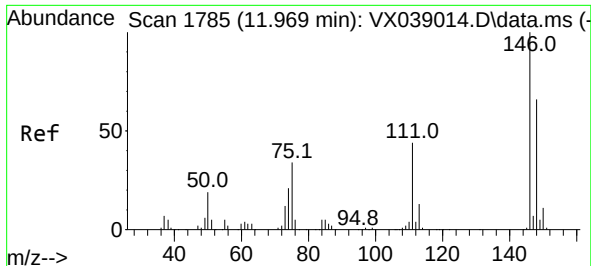


#82  
 p-Isopropyltoluene  
 Concen: 4.885 ug/l  
 RT: 12.012 min Scan# 1792  
 Delta R.T. 0.006 min  
 Lab File: VX039035.D  
 Acq: 27 Nov 2023 12:40



Tgt Ion:119 Resp: 36658  
 Ion Ratio Lower Upper  
 119 100  
 134 24.9 0.0 52.6  
 91 26.8 0.0 54.2





#83

1,3-Dichlorobenzene

Concen: 4.998 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX039035.D

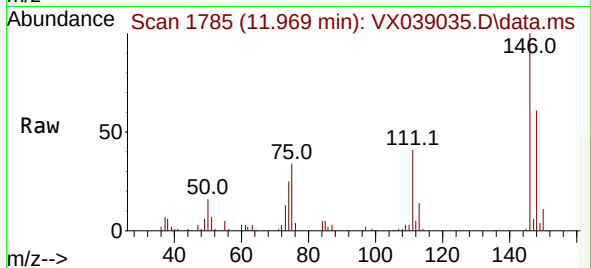
Acq: 27 Nov 2023 12:40

Instrument :

MSVOA\_X

ClientSampleId :

LOQ-WATER-02-QT4-2023



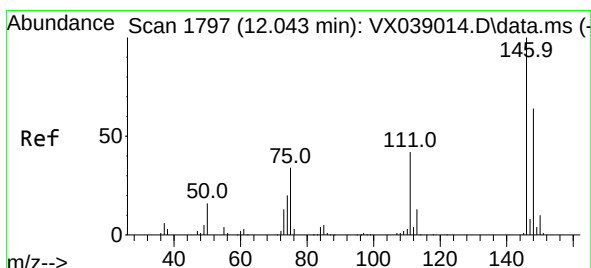
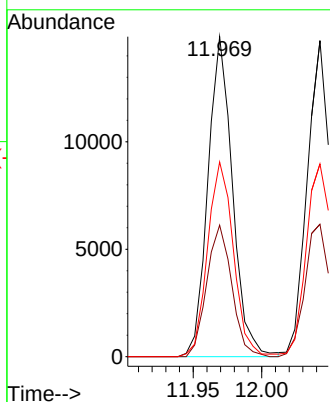
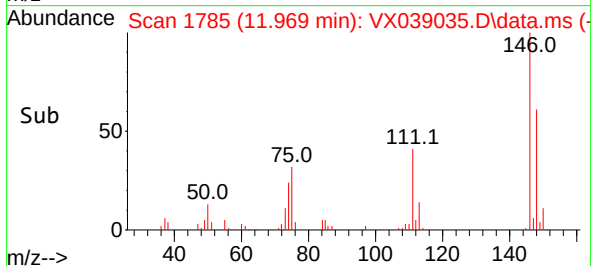
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 1861      |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 41.8  | 22.3 66.9 |
| 148         | 63.7  | 32.8 98.3 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/28/2023

Supervised By :Mahesh Dadoda 11/28/2023



#84

1,4-Dichlorobenzene

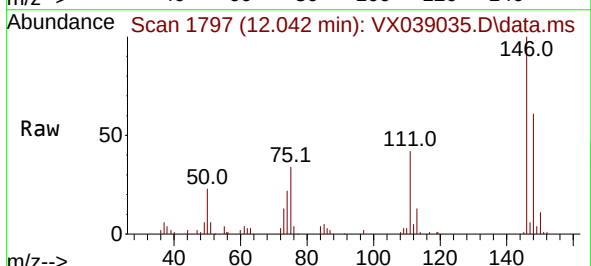
Concen: 4.744 ug/l

RT: 12.042 min Scan# 1797

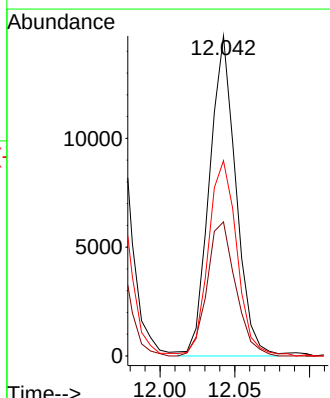
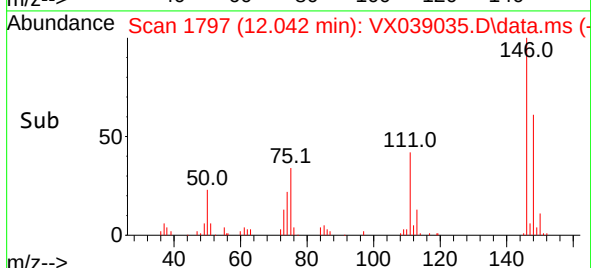
Delta R.T. -0.000 min

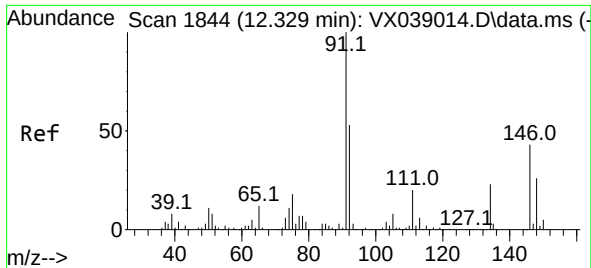
Lab File: VX039035.D

Acq: 27 Nov 2023 12:40



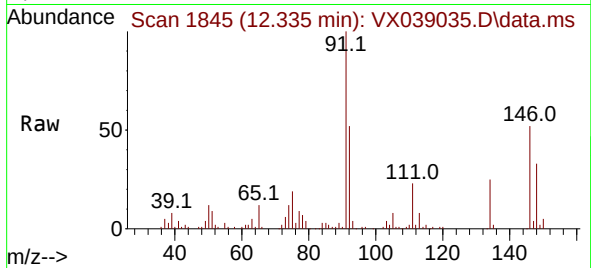
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 18132     |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 45.3  | 21.4 64.2 |
| 148         | 65.7  | 31.8 95.4 |





#85  
n-Butylbenzene  
Concen: 4.853 ug/l  
RT: 12.335 min Scan# 1845  
Delta R.T. 0.006 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

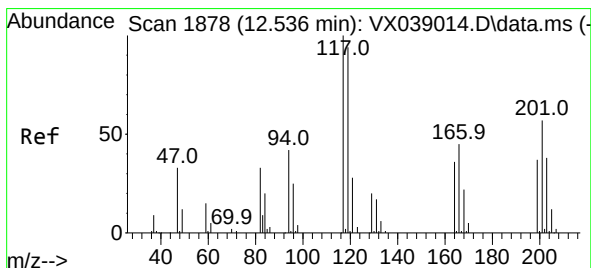
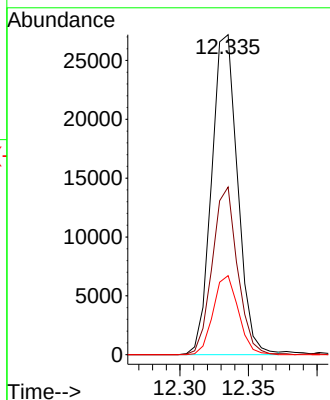
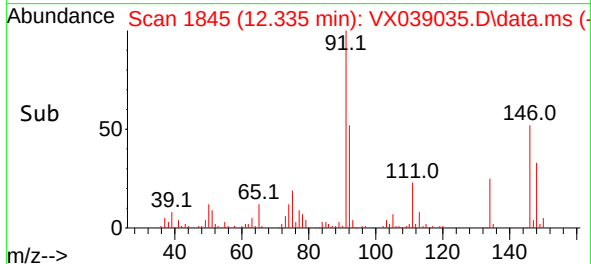
Instrument :  
MSVOA\_X  
ClientSampleId :  
LOQ-WATER-02-QT4-2023



Tgt Ion: 91 Resp: 3595  
Ion Ratio Lower Upper  
91 100  
92 50.6 0.0 106.2  
134 23.9 0.0 48.8

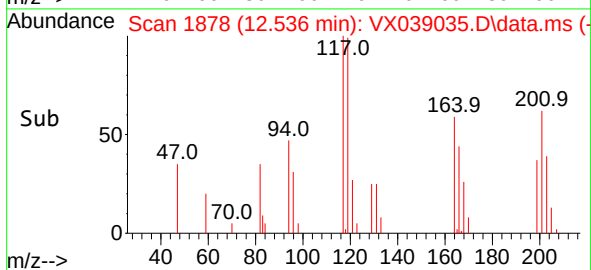
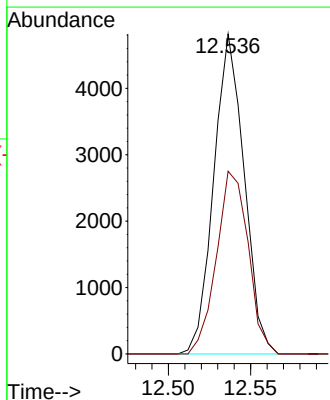
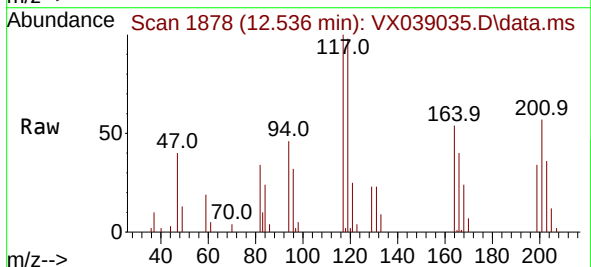
Manual Integrations  
APPROVED

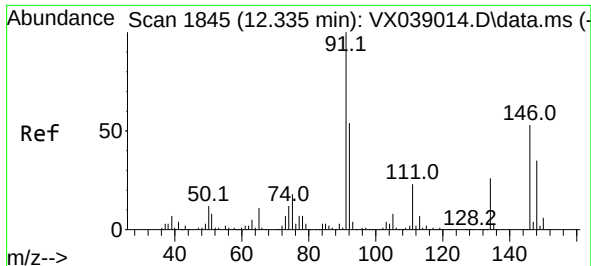
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



#86  
Hexachloroethane  
Concen: 4.356 ug/l  
RT: 12.536 min Scan# 1878  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

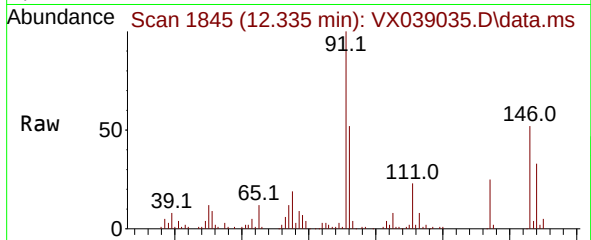
Tgt Ion:117 Resp: 6193  
Ion Ratio Lower Upper  
117 100  
201 59.8 31.8 95.3





#87  
1,2-Dichlorobenzene  
Concen: 4.894 ug/l  
RT: 12.335 min Scan# 1845  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

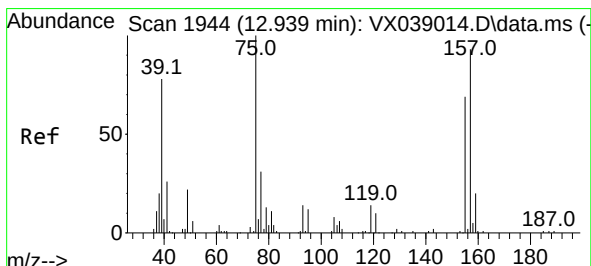
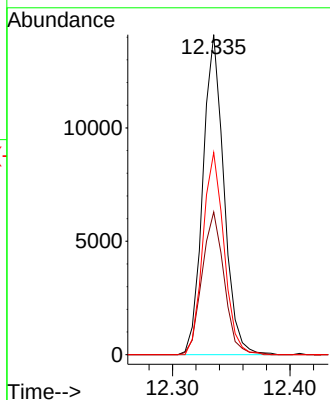
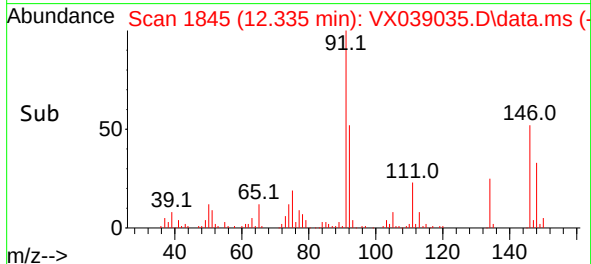
Instrument : MSVOA\_X  
ClientSampleId : LOQ-WATER-02-QT4-2023



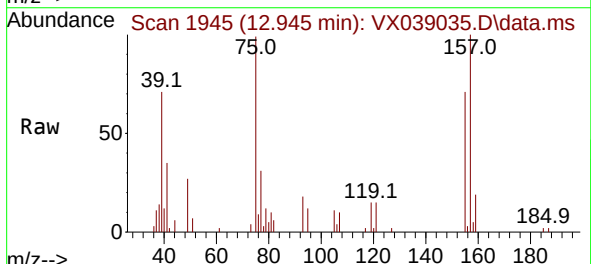
Tgt Ion: 146 Resp: 17530  
Ion Ratio Lower Upper  
146 100  
111 46.8 22.4 67.2  
148 63.3 31.9 95.7

Manual Integrations  
APPROVED

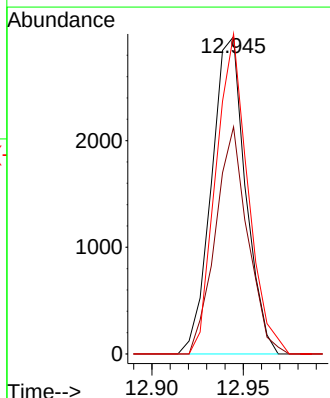
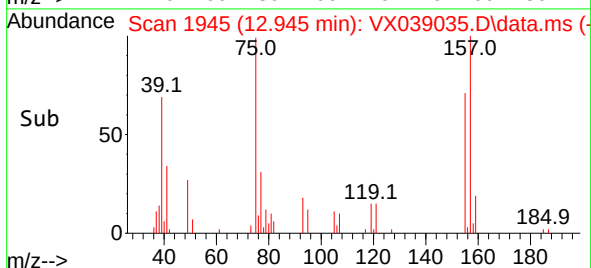
Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023

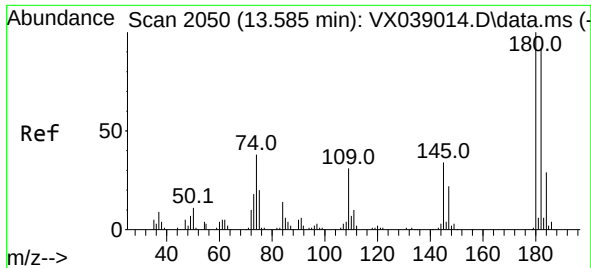


#88  
1,2-Dibromo-3-Chloropropane  
Concen: 4.725 ug/l  
RT: 12.945 min Scan# 1945  
Delta R.T. 0.006 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40



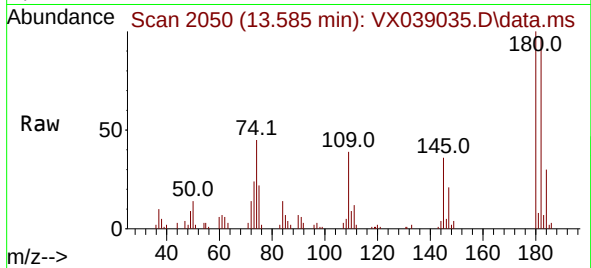
Tgt Ion: 75 Resp: 3857  
Ion Ratio Lower Upper  
75 100  
155 67.8 58.2 87.4  
157 94.8 76.5 114.7





#89  
1,2,4-Trichlorobenzene  
Concen: 4.591 ug/l  
RT: 13.585 min Scan# 2050  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

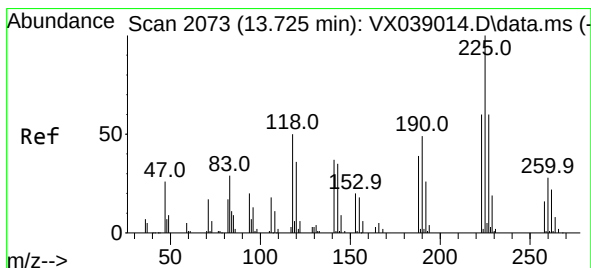
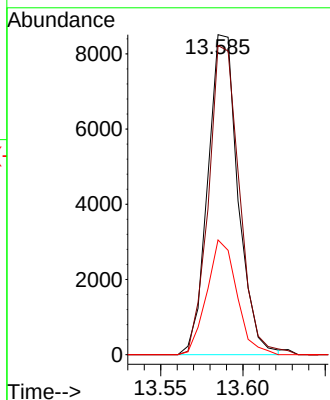
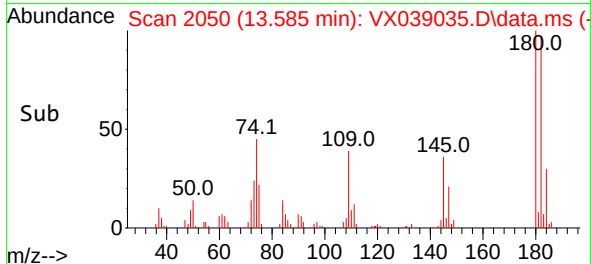
Instrument :  
MSVOA\_X  
ClientSampleId :  
LOQ-WATER-02-QT4-2023



Tgt Ion:180 Resp: 1090  
Ion Ratio Lower Upper  
180 100  
182 98.3 74.5 111.7  
145 35.5 26.6 40.0

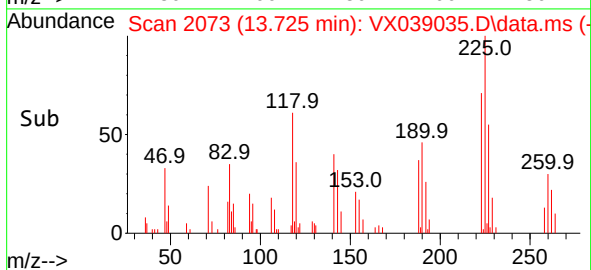
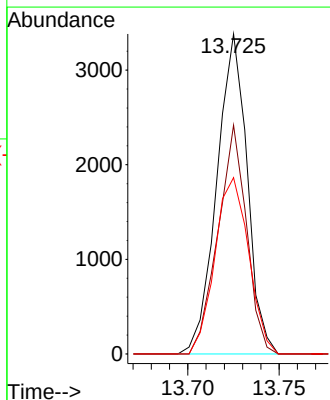
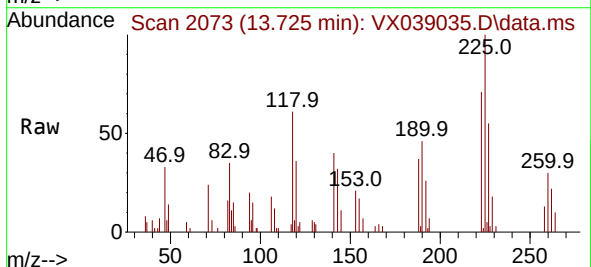
Manual Integrations  
APPROVED

Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023

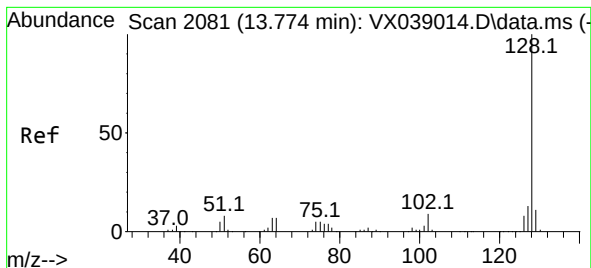


#90  
Hexachlorobutadiene  
Concen: 4.613 ug/l  
RT: 13.725 min Scan# 2073  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

Tgt Ion:225 Resp: 3912  
Ion Ratio Lower Upper  
225 100  
223 67.2 0.0 124.4  
227 61.4 0.0 124.4

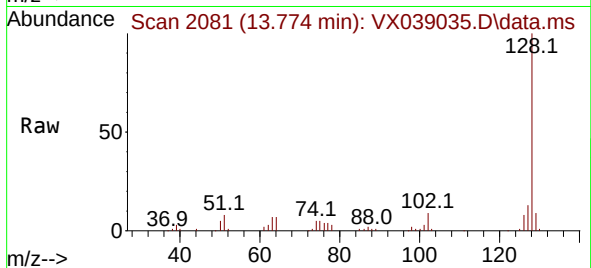






#91  
Naphthalene  
Concen: 4.651 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. -0.000 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40

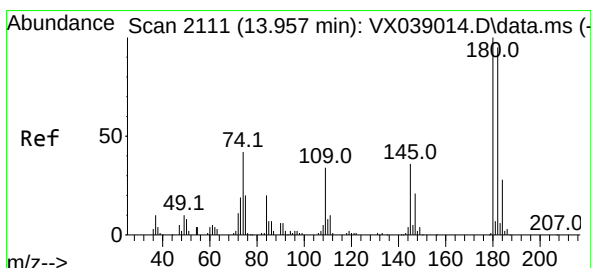
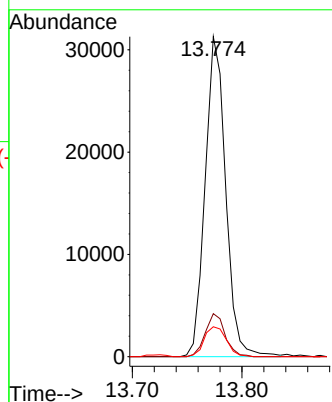
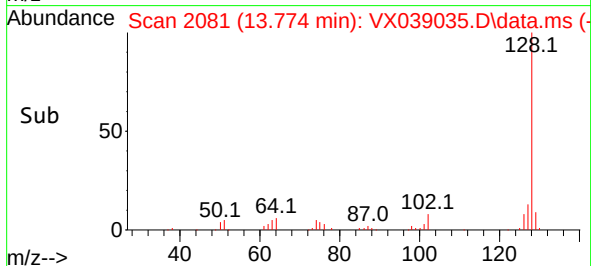
Instrument : MSVOA\_X  
ClientSampleId : LOQ-WATER-02-QT4-2023



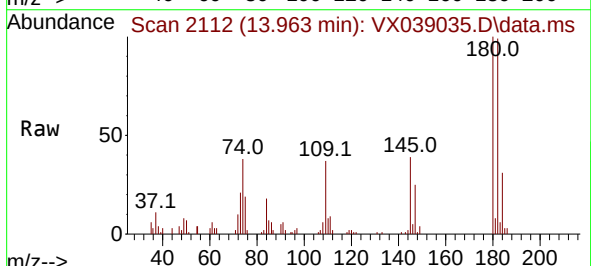
Tgt Ion:128 Resp: 40738  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.2 15.2  
129 10.1 8.6 12.8

Manual Integrations  
APPROVED

Reviewed By :John Carlone 11/28/2023  
Supervised By :Mahesh Dadoda 11/28/2023



#92  
1,2,3-Trichlorobenzene  
Concen: 4.630 ug/l  
RT: 13.963 min Scan# 2112  
Delta R.T. 0.006 min  
Lab File: VX039035.D  
Acq: 27 Nov 2023 12:40



Tgt Ion:180 Resp: 10651  
Ion Ratio Lower Upper  
180 100  
182 98.1 0.0 191.6  
145 39.6 0.0 69.6

