

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX072723\  
 Data File : VX036680.D  
 Acq On : 27 Jul 2023 16:41  
 Operator : JC/MD  
 Sample : PB154443TB  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

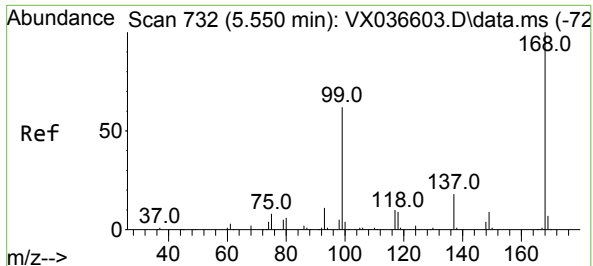
Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jul 28 06:14:04 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072123W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 21 12:14:12 2023  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 127891     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 230670     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 205625     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 87236      | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 86694      | 45.813  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 91.620% |        |          |
| 35) Dibromofluoromethane      | 5.391          | 113  | 73163      | 46.145  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 92.300% |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 271068     | 48.211  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 96.420% |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 98825      | 46.587  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 93.180% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         | Qvalue |          |
| 11) Tert butyl alcohol        | 2.977          | 59   | 1258       | 2.808   | ug/l   | 96       |
| 13) Acrolein                  | 2.215          | 56   | 372        | 1.455   | ug/l # | 14       |
| 16) Acetone                   | 2.380          | 43   | 58560      | 74.575  | ug/l   | 92       |
| 18) Methyl Acetate            | 2.703          | 43   | 1291       | 0.391   | ug/l   | 99       |
| 20) Methylene Chloride        | 2.794          | 84   | 5466       | 3.130   | ug/l # | 91       |
| 25) 2-Butanone                | 4.562          | 43   | 34221      | 26.861  | ug/l   | 94       |
| 29) Tetrahydrofuran           | 5.025          | 42   | 1155       | 1.406   | ug/l   | 91       |
| 31) Cyclohexane               | 5.544          | 56   | 3110       | 1.187   | ug/l # | 13       |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 10650      | 4.507   | ug/l # | 51       |
| 37) Ethyl Acetate             | 4.727          | 43   | 11353      | 4.245   | ug/l   | 97       |
| 38) Carbon Tetrachloride      | 5.556          | 117  | 13320      | 5.302   | ug/l # | 14       |
| 43) Isopropyl Acetate         | 6.342          | 43   | 162642     | 35.324  | ug/l   | 96       |
| 48) Methyl methacrylate       | 7.799          | 41   | 121740     | 56.855  | ug/l # | 48       |
| 49) 1,4-Dioxane               | 7.799          | 88   | 201        | 4.647   | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549          | 43   | 122234     | 47.973  | ug/l # | 37       |
| 52) Toluene                   | 8.720          | 92   | 879        | 0.204   | ug/l   | 94       |
| 53) t-1,3-Dichloropropene     | 8.958          | 75   | 937        | 0.314   | ug/l # | 43       |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 59203      | 18.823  | ug/l # | 53       |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 7268       | 2.410   | ug/l # | 42       |
| 59) 2-Hexanone                | 9.378          | 43   | 143823     | 76.057  | ug/l # | 26       |
| 74) N-amyl acetate            | 10.817         | 43   | 1106       | 0.329   | ug/l # | 48       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 50816      | 24.766  | ug/l # | 39       |
| 80) 1,3,5-Trimethylbenzene    | 11.451         | 105  | 1349       | 0.223   | ug/l   | 94       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 50816      | 56.133  | ug/l # | 5        |
| -----                         |                |      |            |         |        |          |

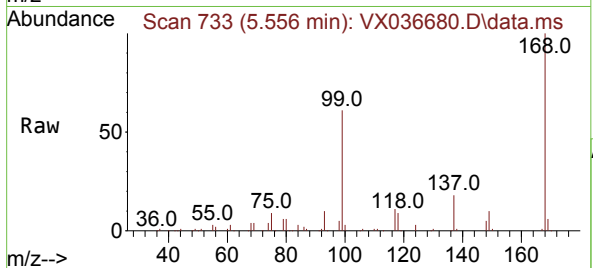
(#) = qualifier out of range (m) = manual integration (+) = signals summed



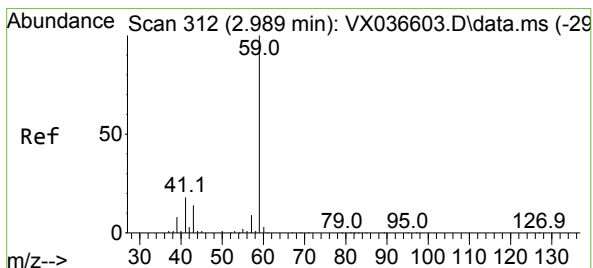
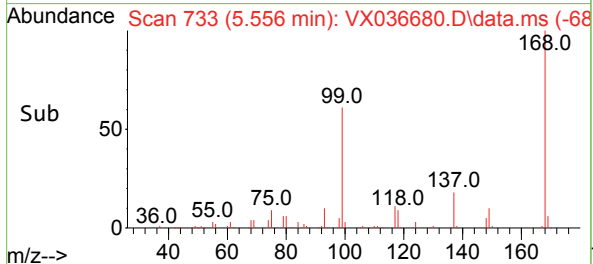
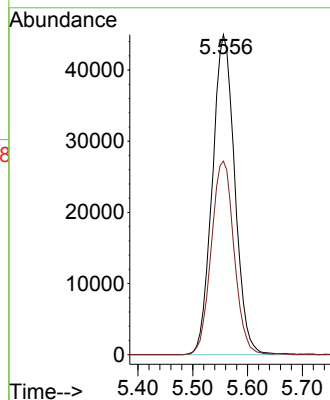


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

Instrument :  
MSVOA\_X  
ClientSampleId :

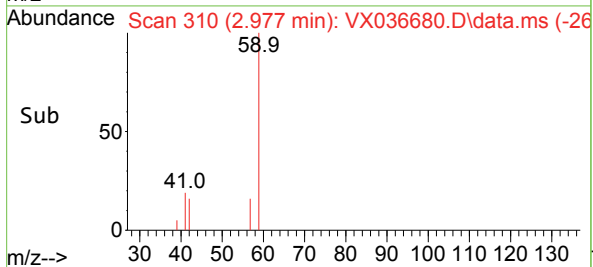
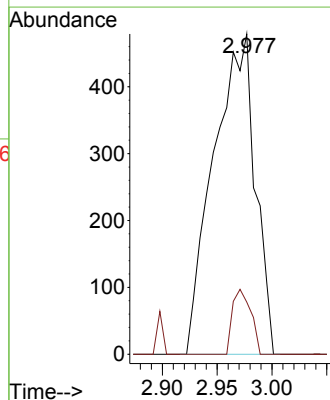
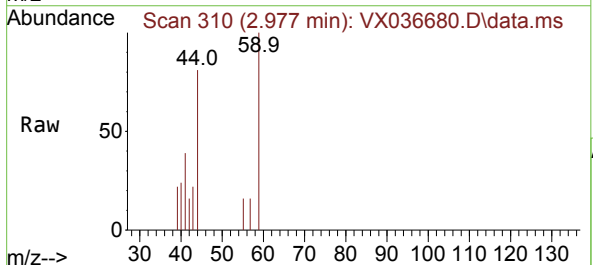


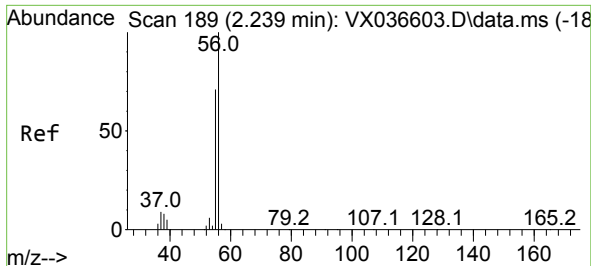
Tgt Ion:168 Resp: 127891  
Ion Ratio Lower Upper  
168 100  
99 60.5 56.6 85.0



#11  
Tert butyl alcohol  
Concen: 2.808 ug/l  
RT: 2.977 min Scan# 310  
Delta R.T. -0.012 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

Tgt Ion: 59 Resp: 1258  
Ion Ratio Lower Upper  
59 100  
57 9.0 6.0 9.0

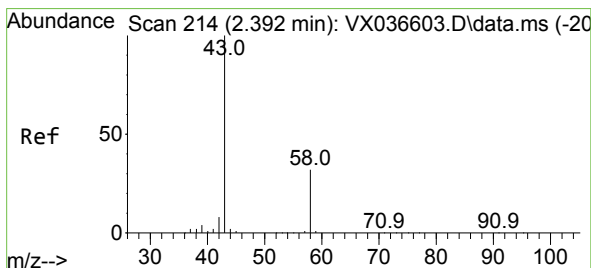
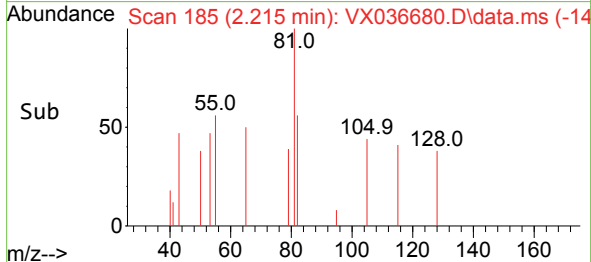
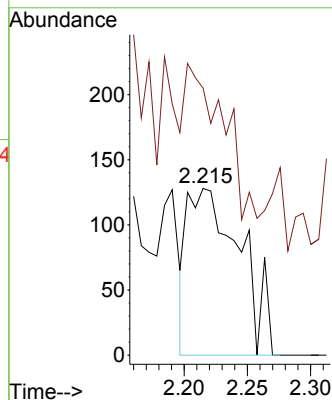
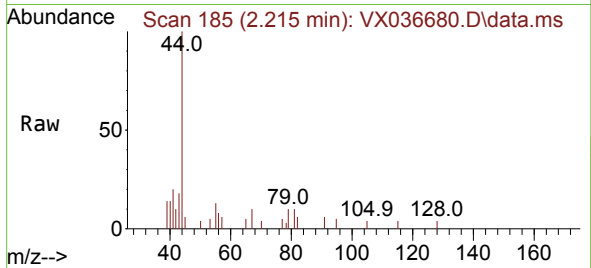




#13  
Acrolein  
Concen: 1.455 ug/l  
RT: 2.215 min Scan# 11  
Delta R.T. -0.024 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

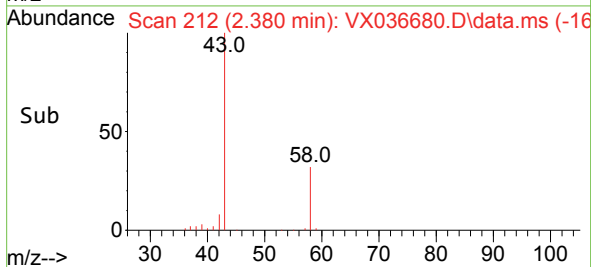
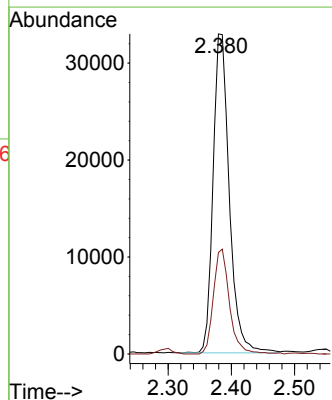
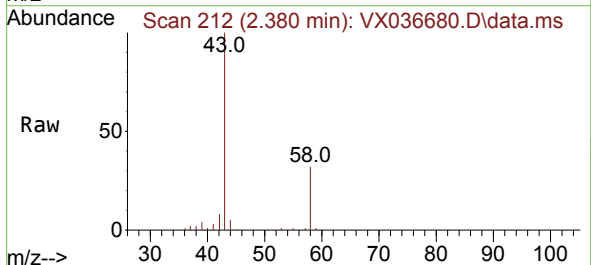
Instrument :  
MSVOA\_X  
ClientSampleId :

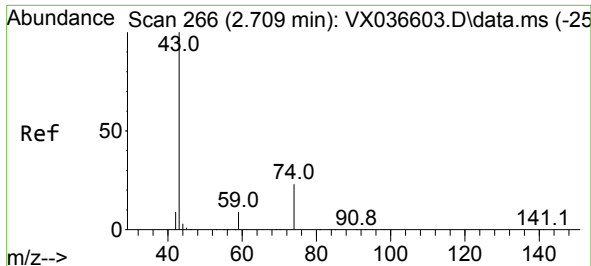
Tgt Ion: 56 Resp: 372  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.1 85.7#



#16  
Acetone  
Concen: 74.575 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.012 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

Tgt Ion: 43 Resp: 58560  
Ion Ratio Lower Upper  
43 100  
58 31.5 21.9 32.9

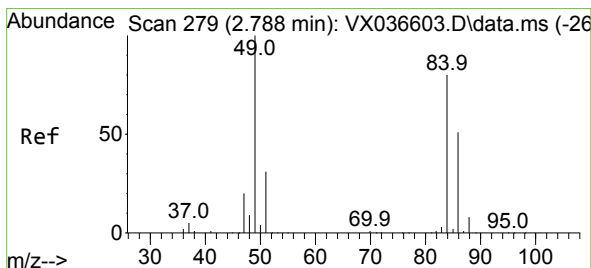
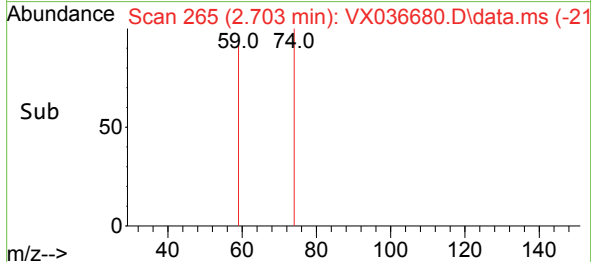
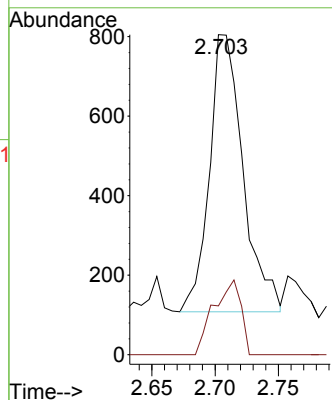
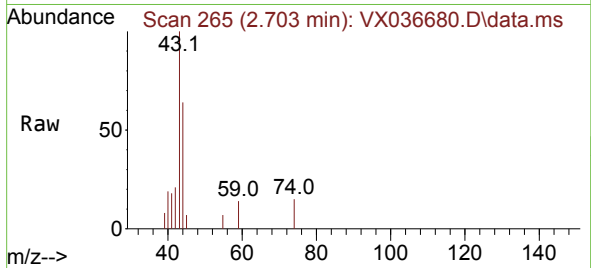




#18  
Methyl Acetate  
Concen: 0.391 ug/l  
RT: 2.703 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

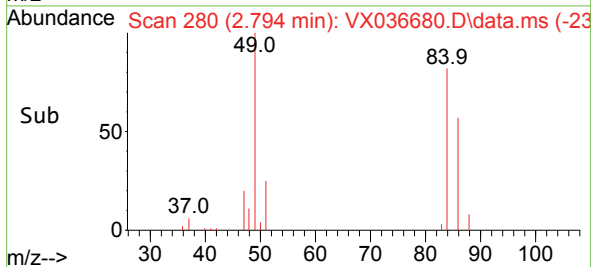
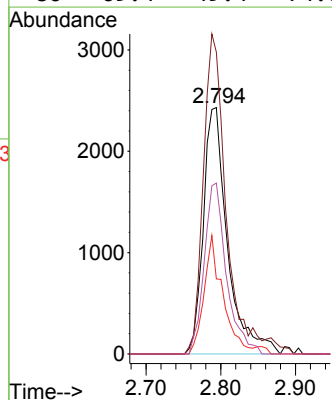
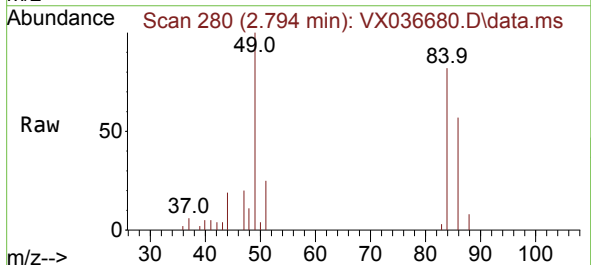
Instrument :  
MSVOA\_X  
ClientSampleId :

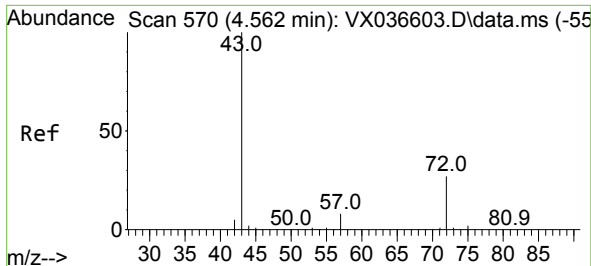
Tgt Ion: 43 Resp: 1291  
Ion Ratio Lower Upper  
43 100  
74 21.8 17.8 26.8



#20  
Methylene Chloride  
Concen: 3.130 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. 0.006 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

Tgt Ion: 84 Resp: 5466  
Ion Ratio Lower Upper  
84 100  
49 122.5 103.6 155.4  
51 30.4 33.8 50.6#  
86 69.4 49.4 74.0

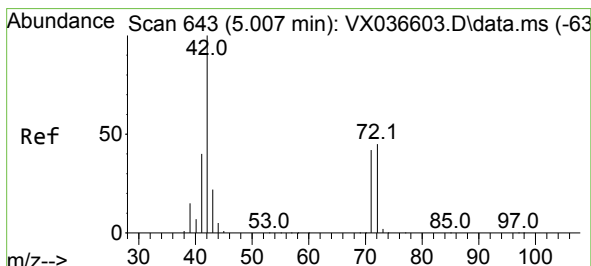
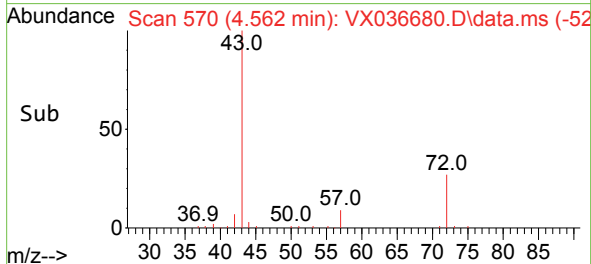
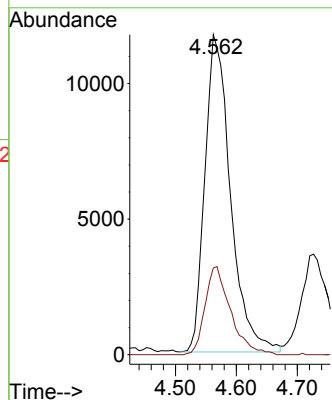
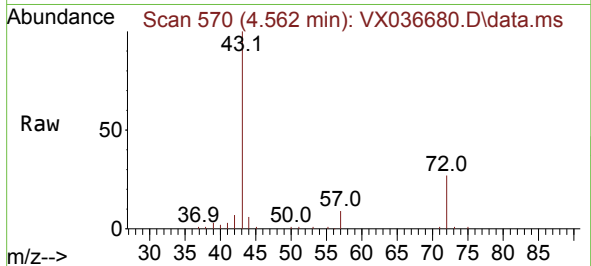




#25  
2-Butanone  
Concen: 26.861 ug/l  
RT: 4.562 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

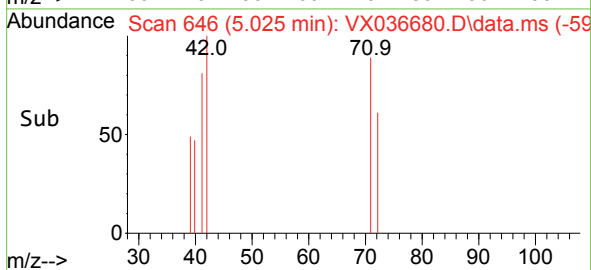
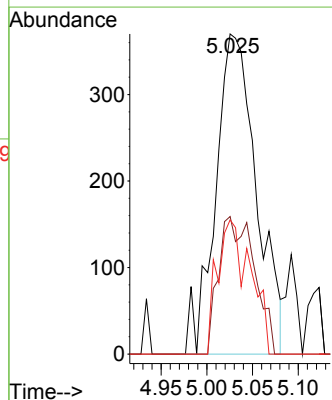
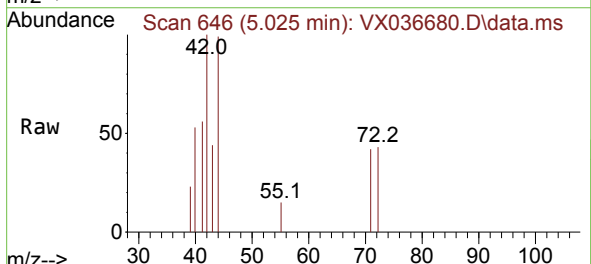
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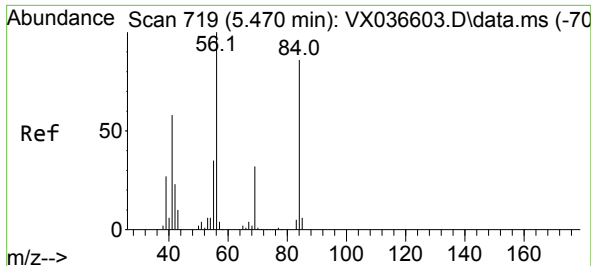
Tgt Ion: 43 Resp: 34221  
Ion Ratio Lower Upper  
43 100  
72 27.4 19.4 29.2



#29  
Tetrahydrofuran  
Concen: 1.406 ug/l  
RT: 5.025 min Scan# 646  
Delta R.T. 0.018 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

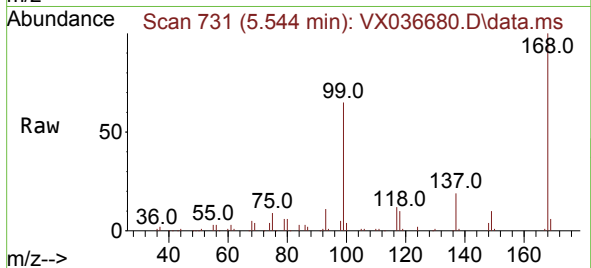
Tgt Ion: 42 Resp: 1155  
Ion Ratio Lower Upper  
42 100  
72 37.6 34.2 51.4  
71 33.7 32.2 48.2



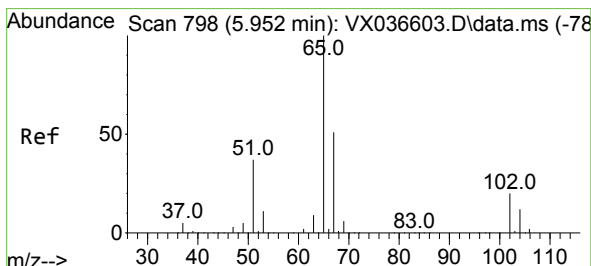
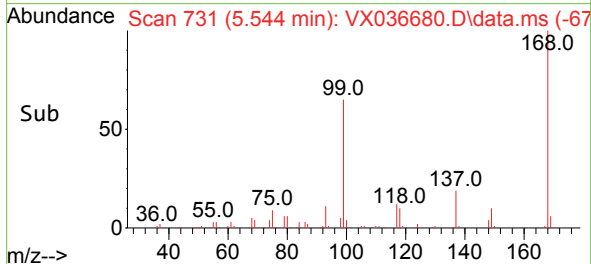
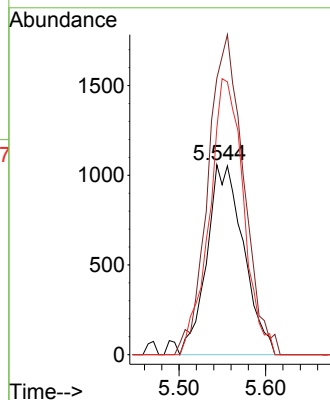


#31  
Cyclohexane  
Concen: 1.187 ug/l  
RT: 5.544 min Scan# 719  
Delta R.T. 0.073 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

Instrument :  
MSVOA\_X  
ClientSampleId :

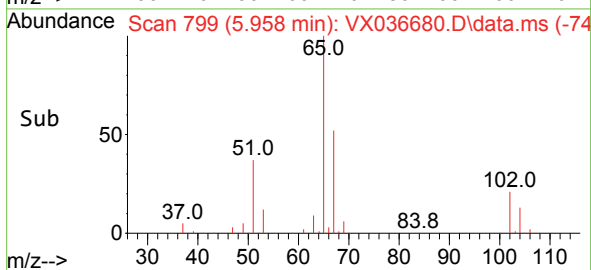
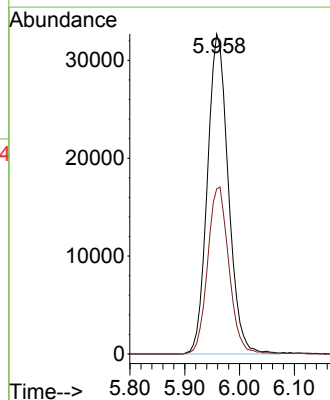
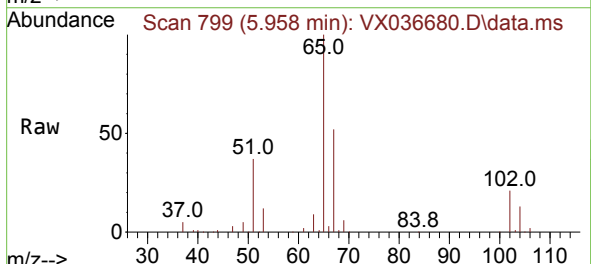


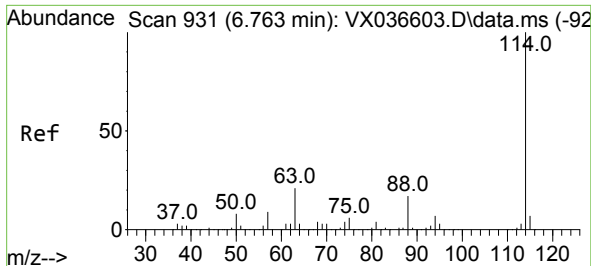
Tgt Ion: 56 Resp: 3110  
Ion Ratio Lower Upper  
56 100  
69 145.5 23.4 35.2#  
84 119.3 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 45.813 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.006 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

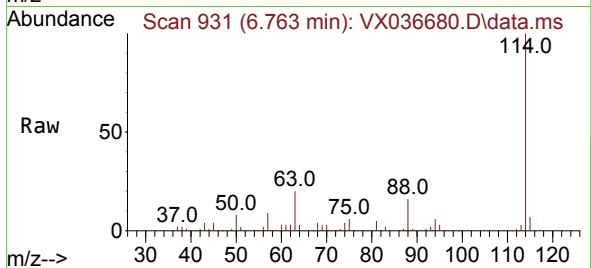
Tgt Ion: 65 Resp: 86694  
Ion Ratio Lower Upper  
65 100  
67 53.0 0.0 100.2



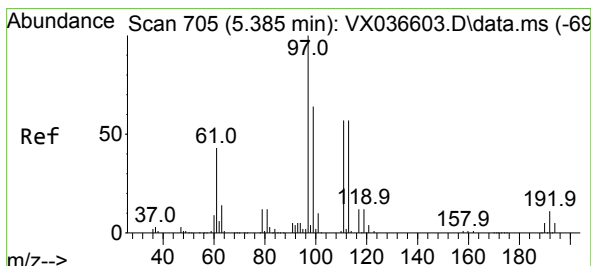
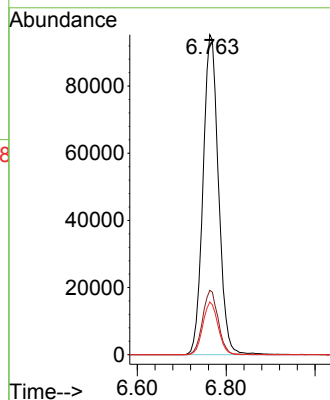
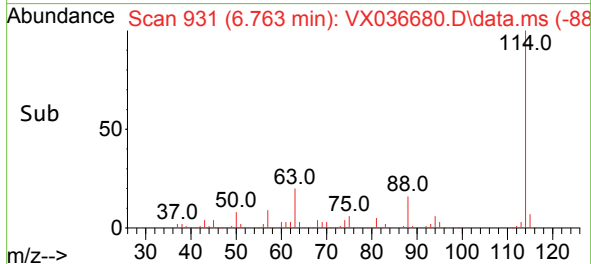


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

Instrument :  
MSVOA\_X  
ClientSampleId :

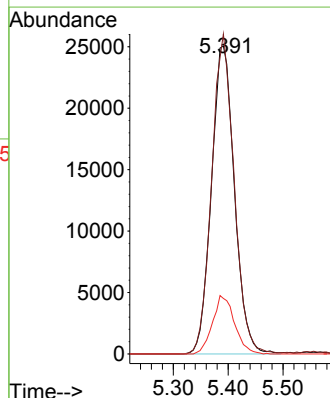
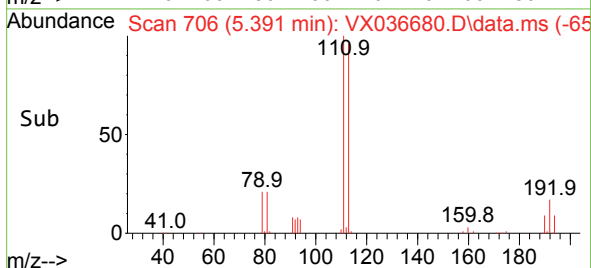
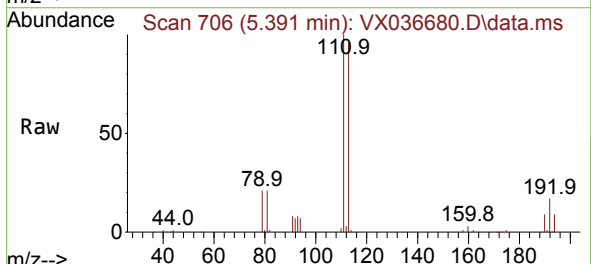


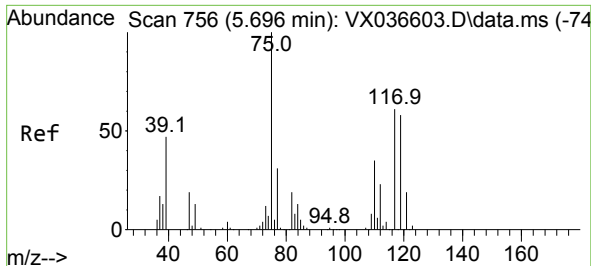
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Ion Ratio Lower Upper  
114 100  
63 20.1 0.0 45.0  
88 16.4 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 46.145 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.006 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

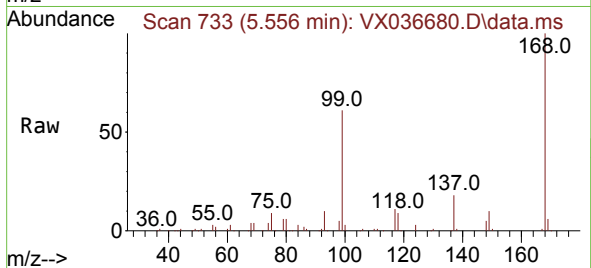
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Ion Ratio Lower Upper  
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111 101.2 82.9 124.3  
192 18.1 13.3 19.9



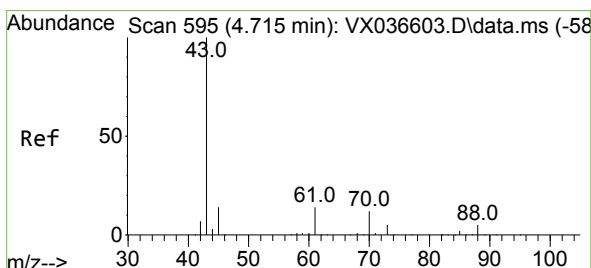
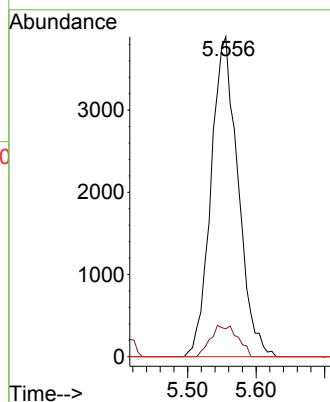
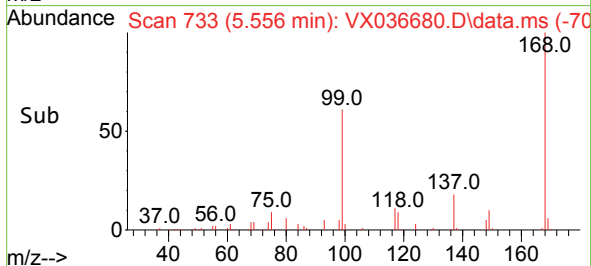


#36  
1,1-Dichloropropene  
Concen: 4.507 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.140 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

Instrument :  
MSVOA\_X  
ClientSampleId :

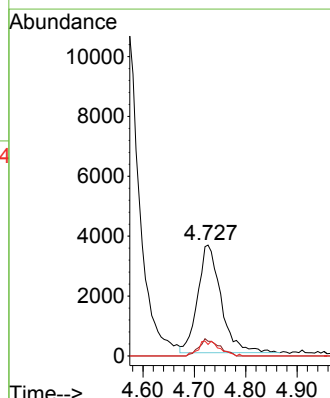
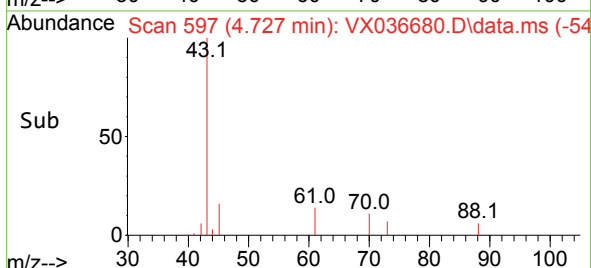
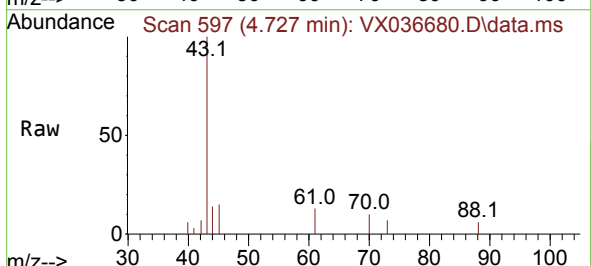


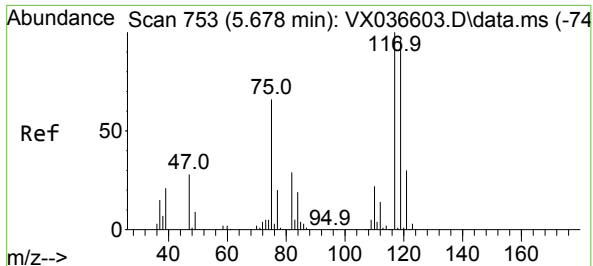
Tgt Ion: 75 Resp: 10650  
Ion Ratio Lower Upper  
75 100  
110 9.8 17.0 50.9#  
77 0.0 24.7 37.1#



#37  
Ethyl Acetate  
Concen: 4.245 ug/l  
RT: 4.727 min Scan# 597  
Delta R.T. 0.012 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

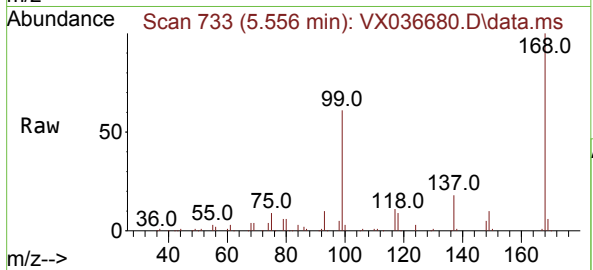
Tgt Ion: 43 Resp: 11353  
Ion Ratio Lower Upper  
43 100  
61 13.5 10.6 16.0  
70 12.4 8.3 12.5



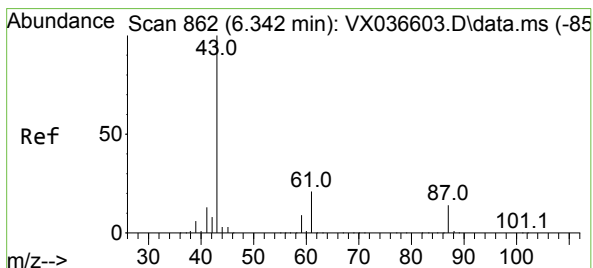
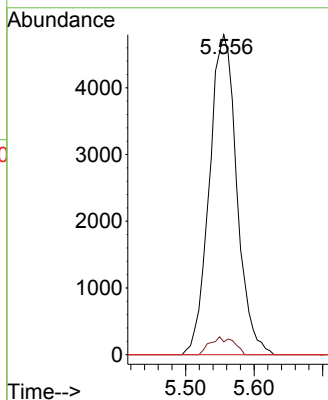
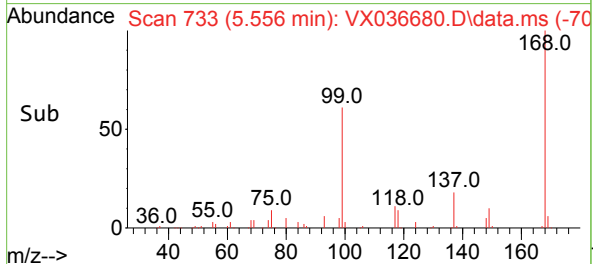


#38  
Carbon Tetrachloride  
Concen: 5.302 ug/l  
RT: 5.556 min Scan# 711  
Delta R.T. -0.122 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

Instrument :  
MSVOA\_X  
ClientSampleId :

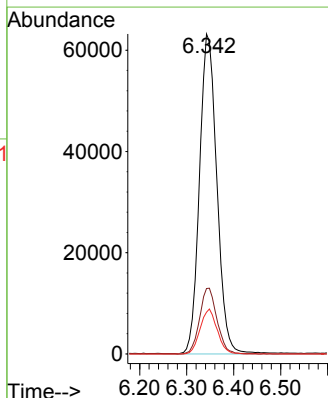
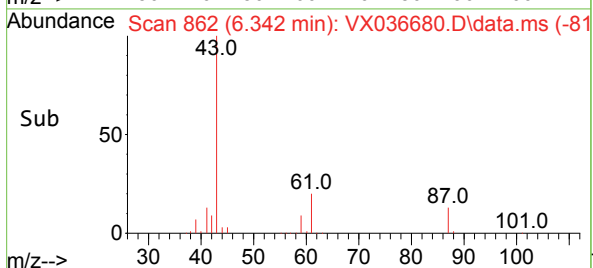
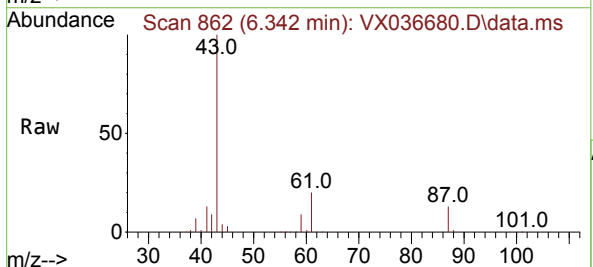


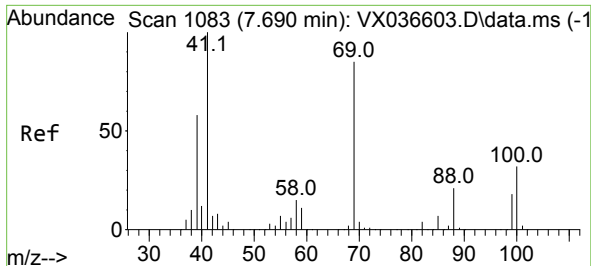
Tgt Ion:117 Resp: 13320  
Ion Ratio Lower Upper  
117 100  
119 4.0 78.2 117.2#  
121 0.0 24.4 36.6#



#43  
Isopropyl Acetate  
Concen: 35.324 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. -0.000 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

Tgt Ion: 43 Resp: 162642  
Ion Ratio Lower Upper  
43 100  
61 20.5 15.2 22.8  
87 13.7 9.8 14.6





#48

Methyl methacrylate

Concen: 56.855 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.110 min

Lab File: VX036680.D

Acq: 27 Jul 2023 16:41

Instrument :

MSVOA\_X

ClientSampleId :

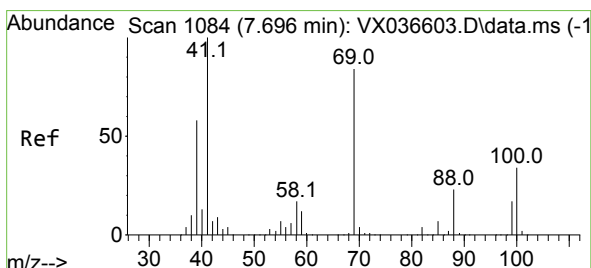
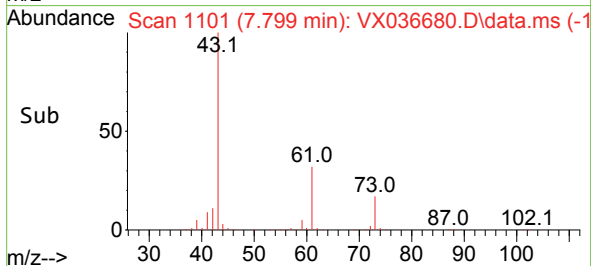
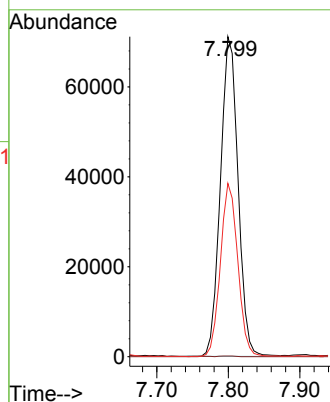
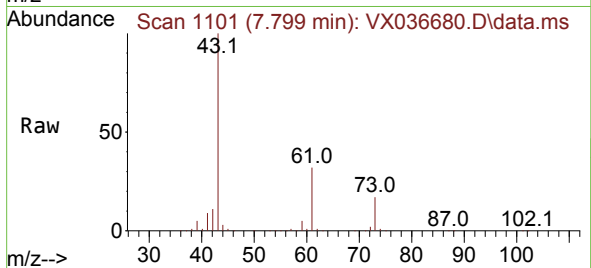
Tgt Ion: 41 Resp: 121740

Ion Ratio Lower Upper

41 100

69 0.2 59.2 88.8#

39 53.8 47.7 71.5



#49

1,4-Dioxane

Concen: 4.647 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.104 min

Lab File: VX036680.D

Acq: 27 Jul 2023 16:41

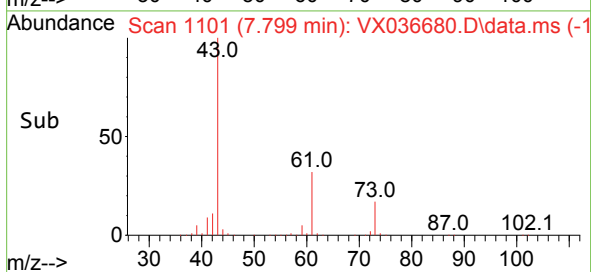
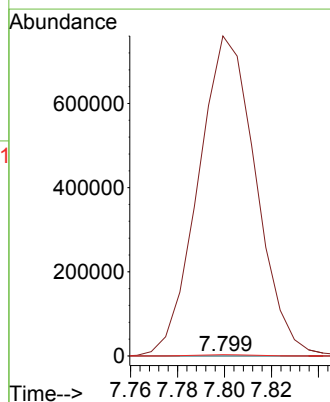
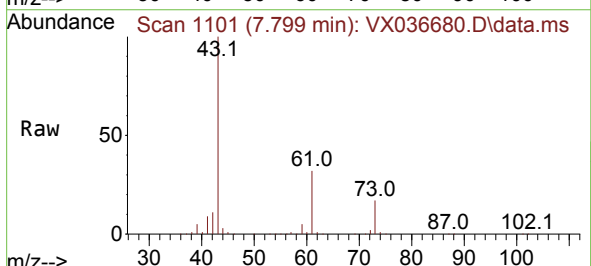
Tgt Ion: 88 Resp: 201

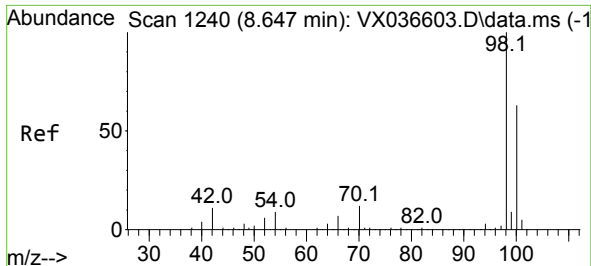
Ion Ratio Lower Upper

88 100

43 650835.8 0.0 0.0#

58 2549.3 60.1 90.1#

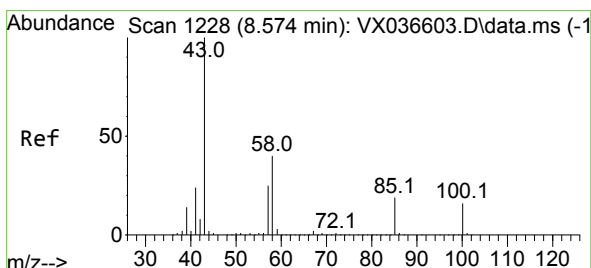
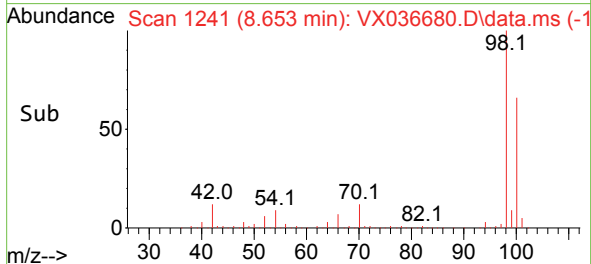
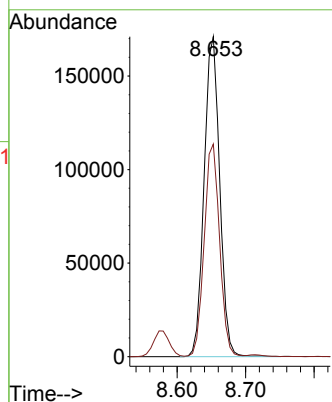
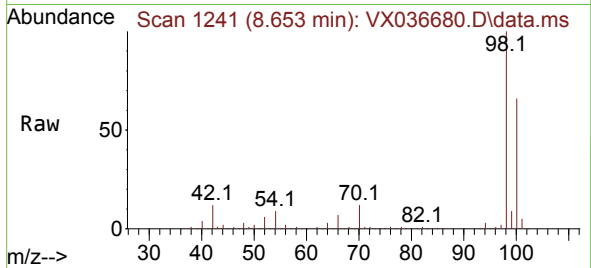




#50  
Toluene-d8  
Concen: 48.211 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

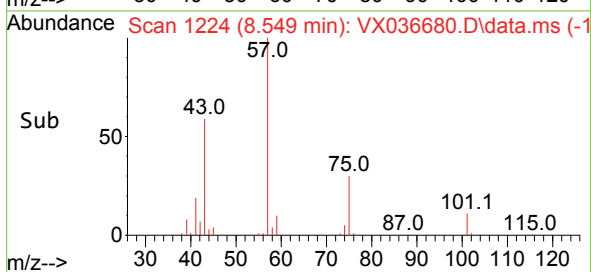
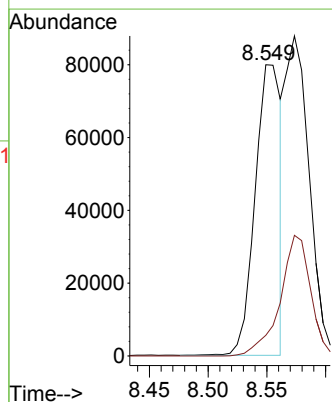
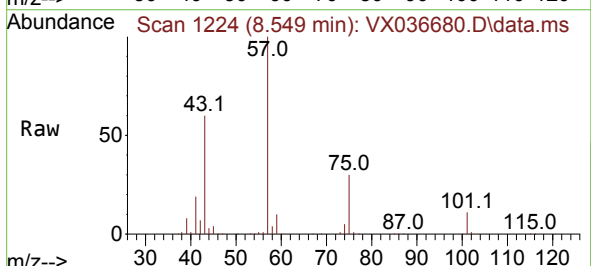
Instrument :  
MSVOA\_X  
ClientSampleId :

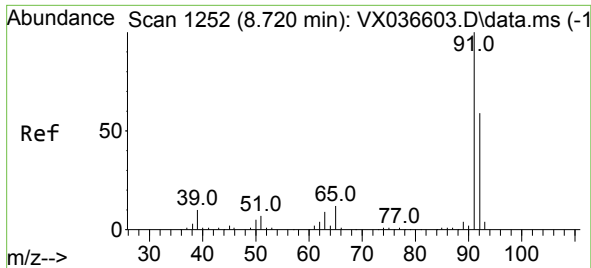
Tgt Ion: 98 Resp: 271068  
Ion Ratio Lower Upper  
98 100  
100 65.2 53.1 79.7



#51  
4-Methyl-2-Pentanone  
Concen: 47.973 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.024 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

Tgt Ion: 43 Resp: 122234  
Ion Ratio Lower Upper  
43 100  
58 0.0 30.4 45.6#

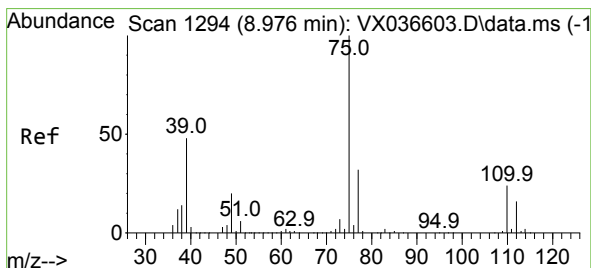
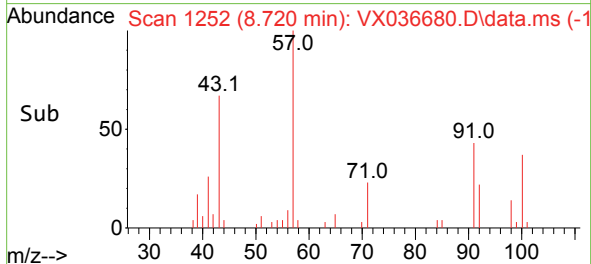
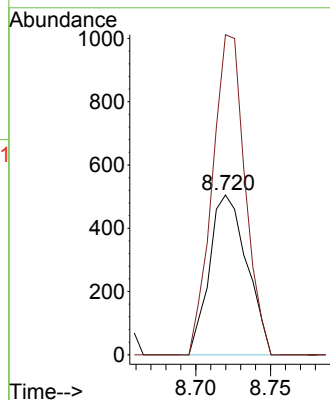
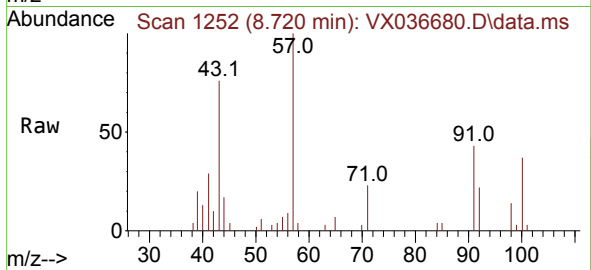




#52  
Toluene  
Concen: 0.204 ug/l  
RT: 8.720 min Scan# 1252  
Delta R.T. -0.000 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

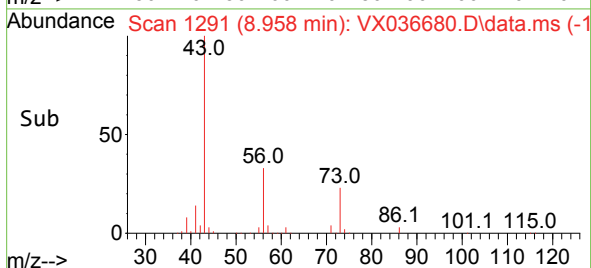
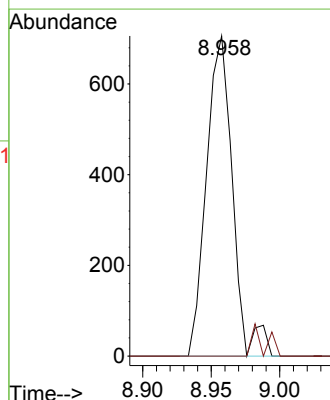
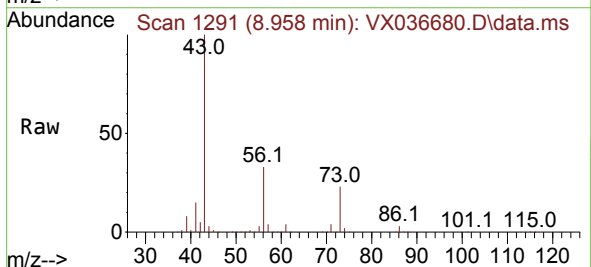
Instrument :  
MSVOA\_X  
ClientSampleId :

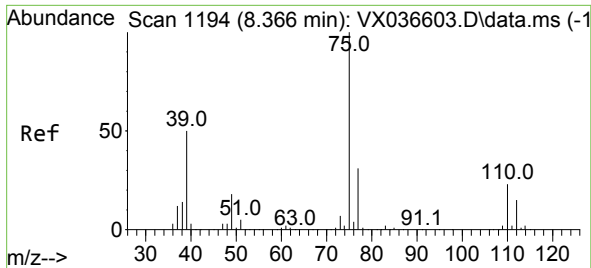
Tgt Ion: 92 Resp: 879  
Ion Ratio Lower Upper  
92 100  
91 175.5 134.2 201.2



#53  
t-1,3-Dichloropropene  
Concen: 0.314 ug/l  
RT: 8.958 min Scan# 1291  
Delta R.T. -0.018 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

Tgt Ion: 75 Resp: 937  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.7 38.5#

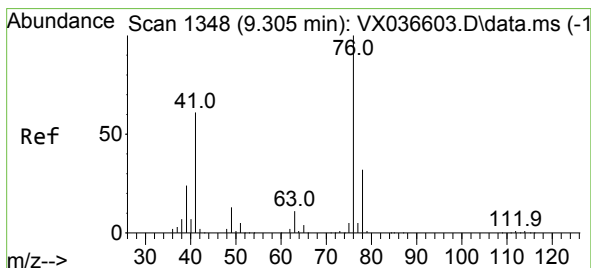
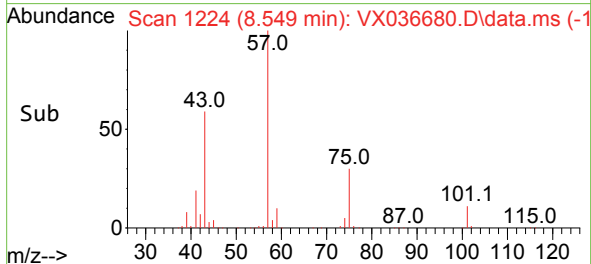
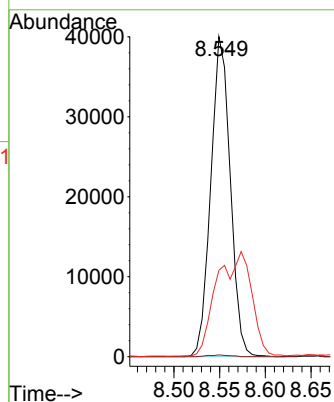
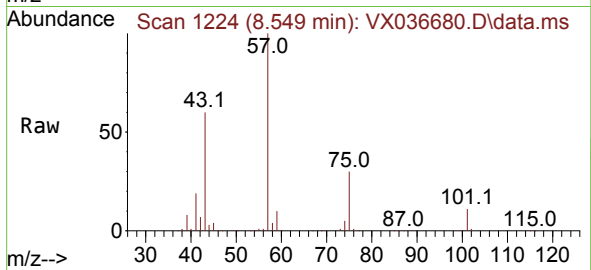




#54  
 cis-1,3-Dichloropropene  
 Concen: 18.823 ug/l  
 RT: 8.549 min Scan# 1194  
 Delta R.T. 0.183 min  
 Lab File: VX036680.D  
 Acq: 27 Jul 2023 16:41

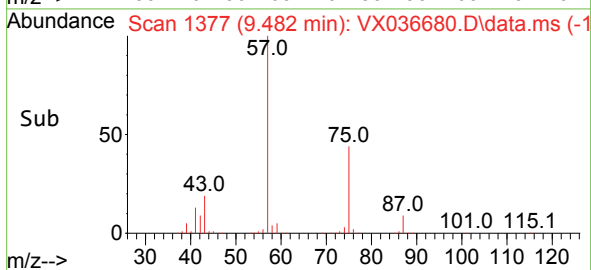
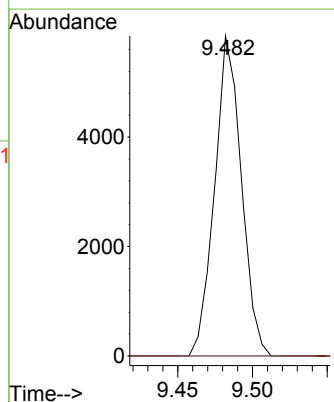
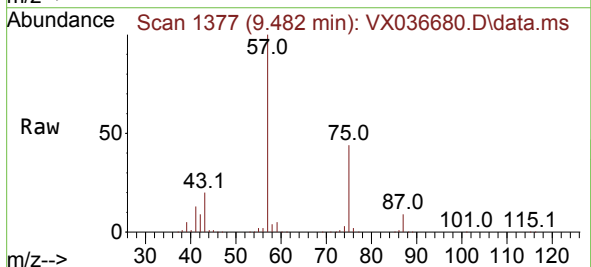
Instrument :  
 MSVOA\_X  
 ClientSampleId :

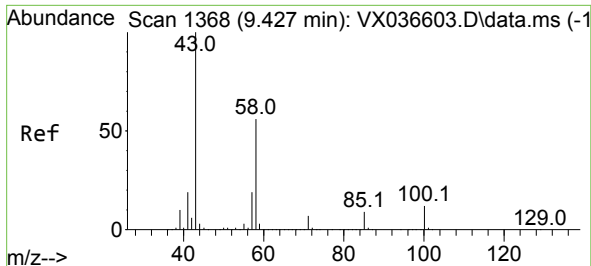
Tgt Ion: 75 Resp: 59203  
 Ion Ratio Lower Upper  
 75 100  
 77 0.5 25.3 37.9#  
 39 26.8 46.7 70.1#



#57  
 1,3-Dichloropropane  
 Concen: 2.410 ug/l  
 RT: 9.482 min Scan# 1377  
 Delta R.T. 0.177 min  
 Lab File: VX036680.D  
 Acq: 27 Jul 2023 16:41

Tgt Ion: 76 Resp: 7268  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 26.1 39.1#

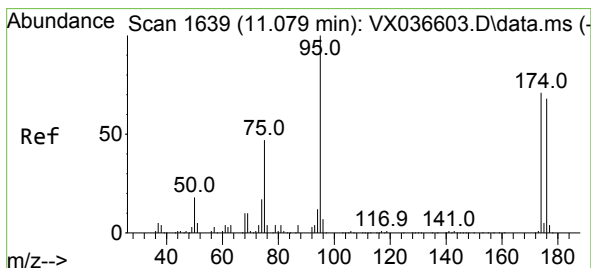
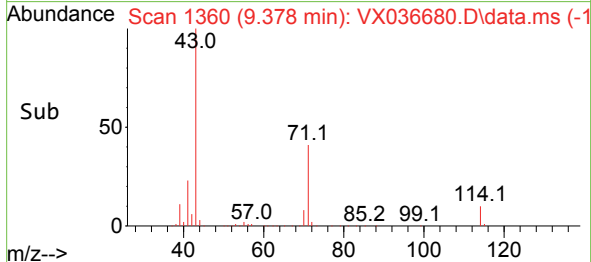
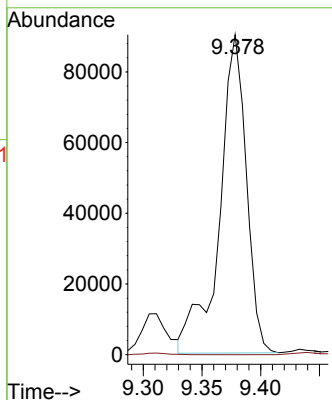
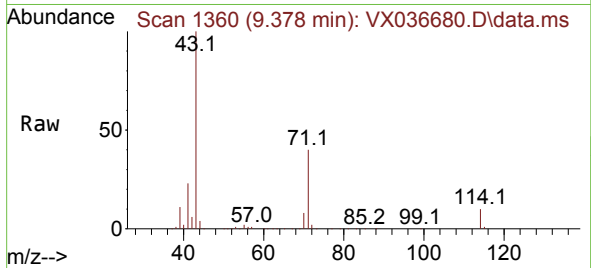




#59  
2-Hexanone  
Concen: 76.057 ug/l  
RT: 9.378 min Scan# 11  
Delta R.T. -0.049 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

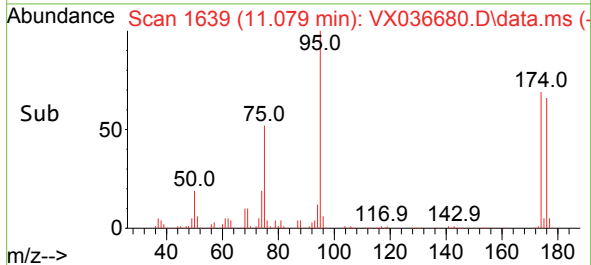
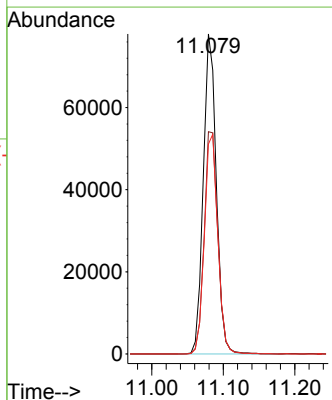
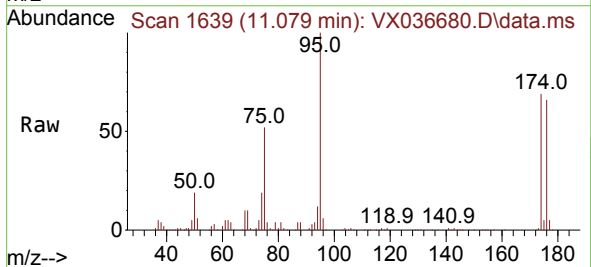
Instrument :  
MSVOA\_X  
ClientSampleId :

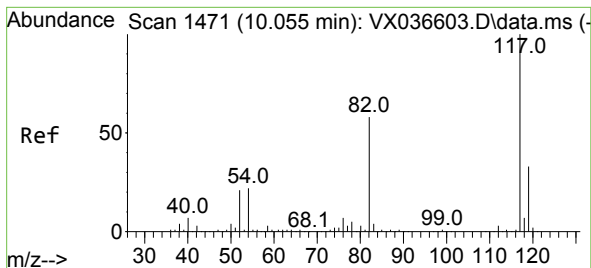
Tgt Ion: 43 Resp: 143823  
Ion Ratio Lower Upper  
43 100  
58 0.0 26.2 78.5#



#62  
4-Bromofluorobenzene  
Concen: 46.587 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

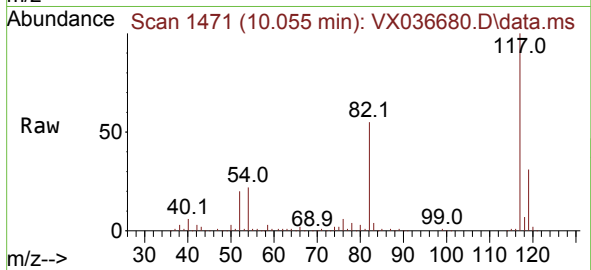
Tgt Ion: 95 Resp: 98825  
Ion Ratio Lower Upper  
95 100  
174 72.4 0.0 135.6  
176 70.8 0.0 131.0



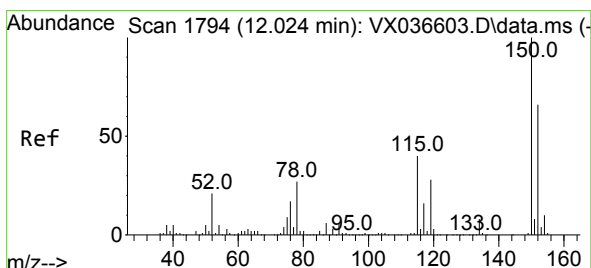
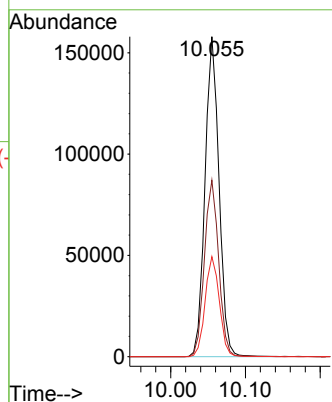
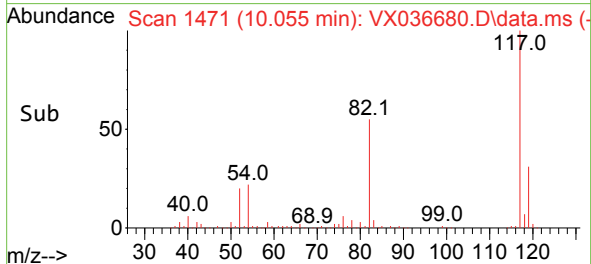


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

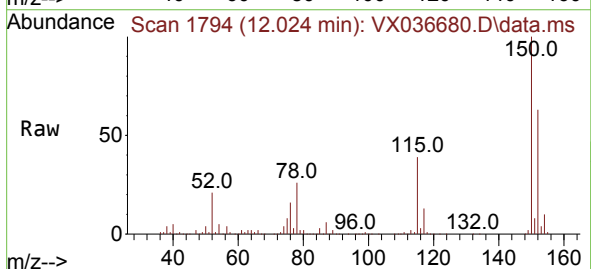
Instrument :  
MSVOA\_X  
ClientSampleId :



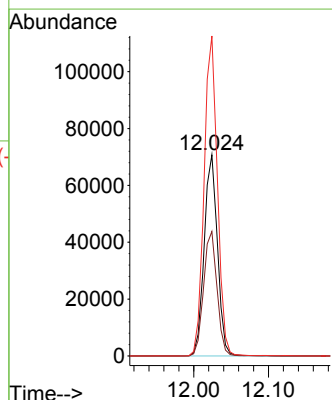
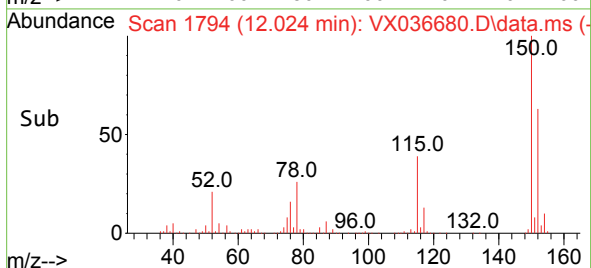
Tgt Ion:117 Resp: 205625  
Ion Ratio Lower Upper  
117 100  
82 55.2 46.2 69.4  
119 31.2 25.5 38.3

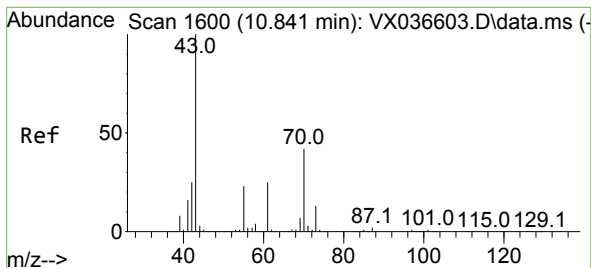


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41



Tgt Ion:152 Resp: 87236  
Ion Ratio Lower Upper  
152 100  
115 62.8 43.3 129.9  
150 159.3 0.0 345.0





#74

N-amy1 acetate

Concen: 0.329 ug/l

RT: 10.817 min Scan# 1

Delta R.T. -0.024 min

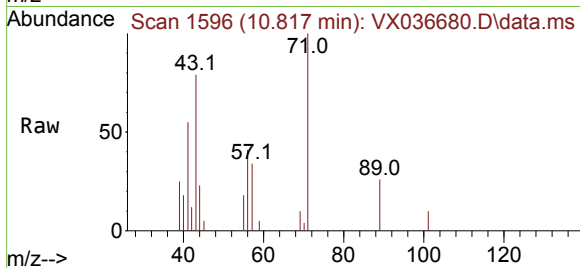
Lab File: VX036680.D

Acq: 27 Jul 2023 16:41

Instrument :

MSVOA\_X

ClientSampleId :



Tgt Ion: 43 Resp: 1106

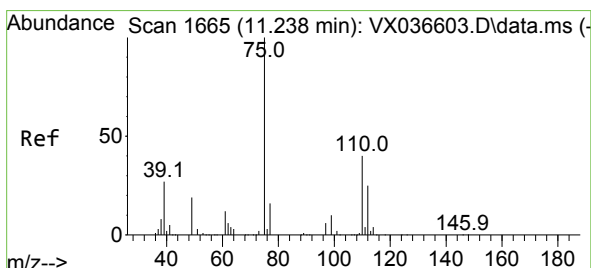
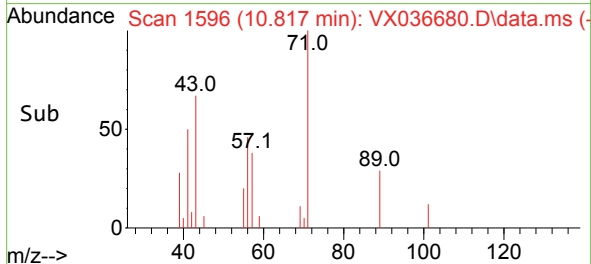
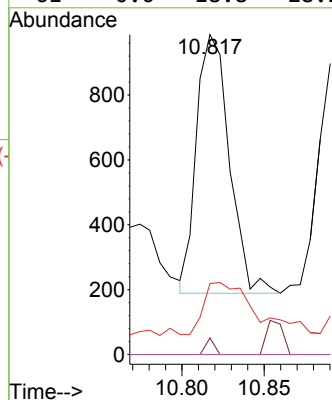
Ion Ratio Lower Upper

43 100

70 0.0 32.9 49.3#

55 40.2 19.3 28.9#

61 0.0 18.8 28.2#



#76

1,2,3-Trichloropropane

Concen: 24.766 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX036680.D

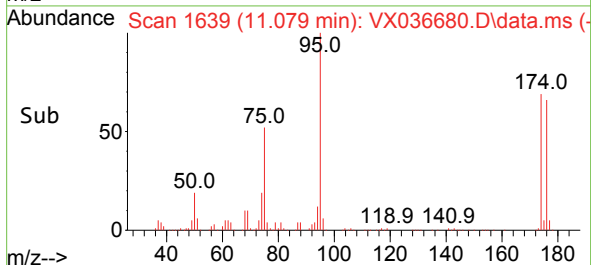
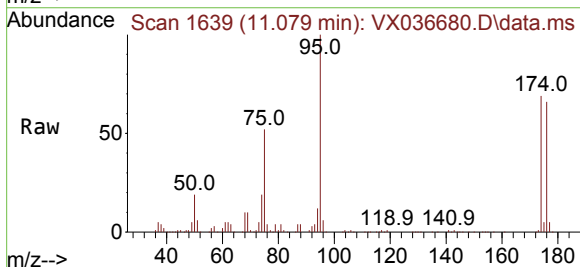
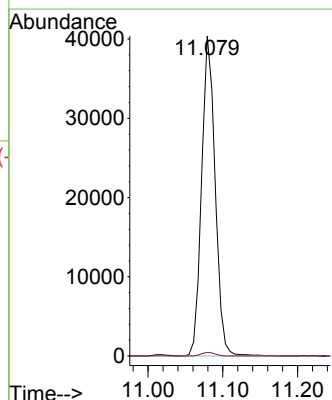
Acq: 27 Jul 2023 16:41

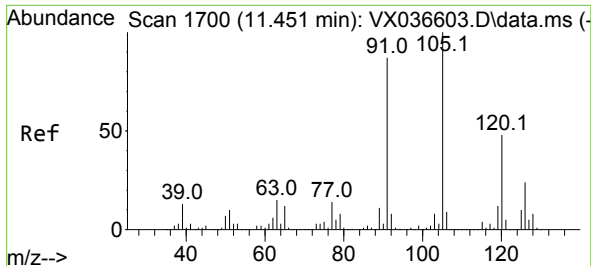
Tgt Ion: 75 Resp: 50816

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#

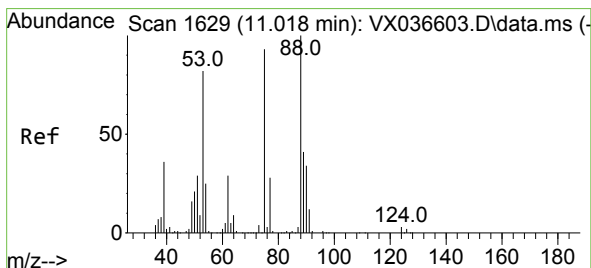
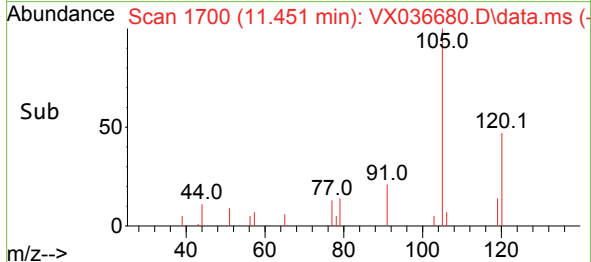
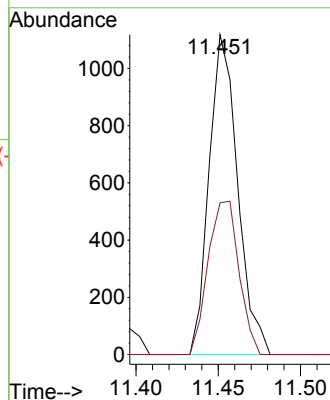
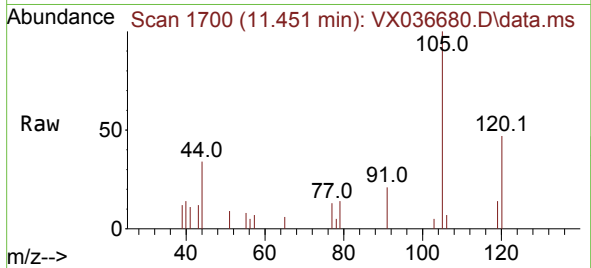




#80  
1,3,5-Trimethylbenzene  
Concen: 0.223 ug/l  
RT: 11.451 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion:105 Resp: 1349  
Ion Ratio Lower Upper  
105 100  
120 52.0 24.1 72.3



#81  
trans-1,4-Dichloro-2-butene  
Concen: 56.133 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX036680.D  
Acq: 27 Jul 2023 16:41

Tgt Ion: 75 Resp: 50816  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#

