

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX080723\  
 Data File : VX036843.D  
 Acq On : 07 Aug 2023 17:41  
 Operator : JC/MD  
 Sample : 03891-04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP-2

Quant Time: Aug 08 01:39:17 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

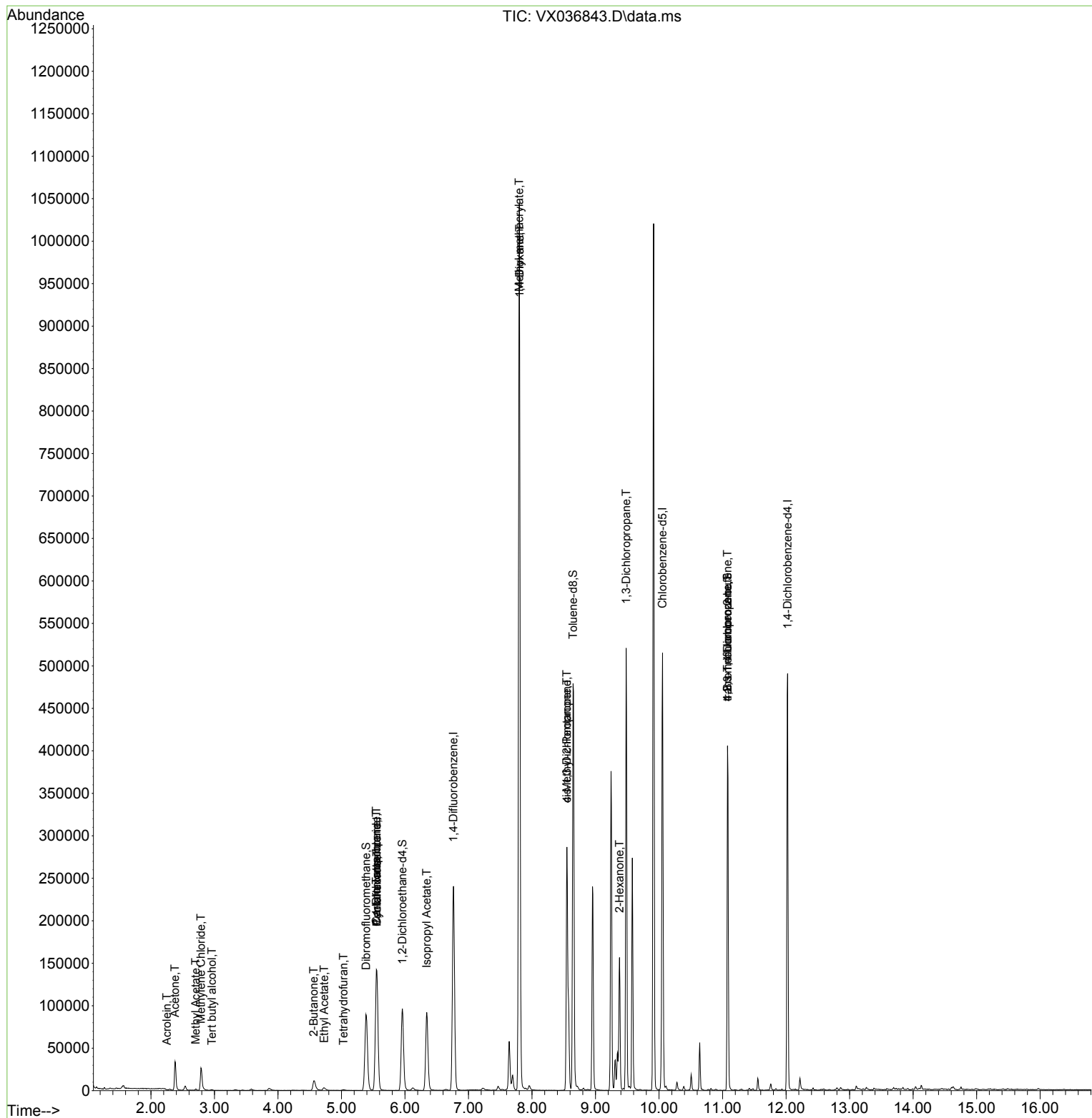
| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 133371     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 245555     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 225071     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 98889      | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 93285      | 47.271  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 94.540% |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 79408      | 47.048  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 94.100% |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 293185     | 48.984  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 97.960% |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 111456     | 49.357  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 98.720% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         | Qvalue |          |
| 11) Tert butyl alcohol        | 2.959          | 59   | 793        | 1.697   | ug/l # | 86       |
| 13) Acrolein                  | 2.251          | 56   | 67         | 0.251   | ug/l # | 14       |
| 16) Acetone                   | 2.379          | 43   | 35873      | 43.807  | ug/l   | 92       |
| 18) Methyl Acetate            | 2.703          | 43   | 1757       | 0.510   | ug/l   | 93       |
| 20) Methylene Chloride        | 2.788          | 84   | 14037      | 7.708   | ug/l   | 92       |
| 25) 2-Butanone                | 4.562          | 43   | 16913      | 12.730  | ug/l # | 86       |
| 29) Tetrahydrofuran           | 5.031          | 42   | 612        | 0.714   | ug/l # | 74       |
| 31) Cyclohexane               | 5.556          | 56   | 2975       | 1.089   | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.550          | 75   | 10943      | 4.350   | ug/l # | 50       |
| 37) Ethyl Acetate             | 4.727          | 43   | 5940       | 2.086   | ug/l   | 96       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 14433      | 5.397   | ug/l # | 14       |
| 43) Isopropyl Acetate         | 6.342          | 43   | 125964     | 25.700  | ug/l # | 95       |
| 48) Methyl methacrylate       | 7.799          | 41   | 87895      | 38.561  | ug/l # | 49       |
| 49) 1,4-Dioxane               | 7.805          | 88   | 110        | 2.389   | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549          | 43   | 140743     | 51.889  | ug/l # | 37       |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 47127      | 14.076  | ug/l # | 52       |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 4811       | 1.498   | ug/l # | 42       |
| 59) 2-Hexanone                | 9.378          | 43   | 108284     | 53.792  | ug/l # | 26       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 58442      | 25.126  | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 58442      | 56.949  | ug/l # | 5        |
| -----                         |                |      |            |         |        |          |

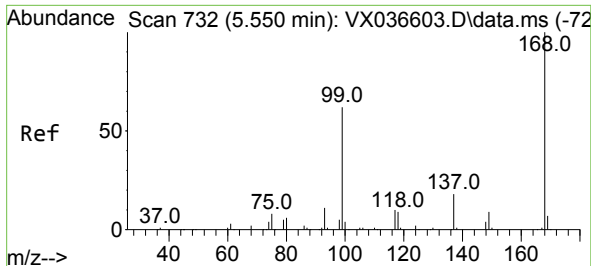
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Jul 21 12:14:12 2023  
Response via : Initial Calibration

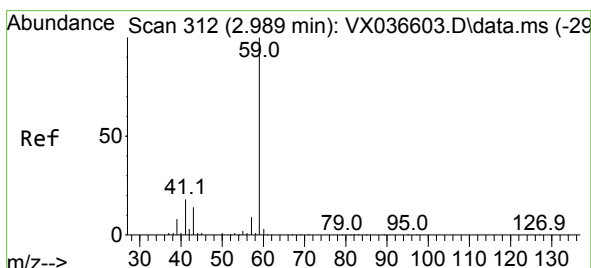
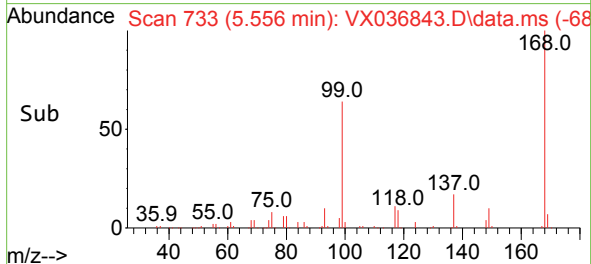
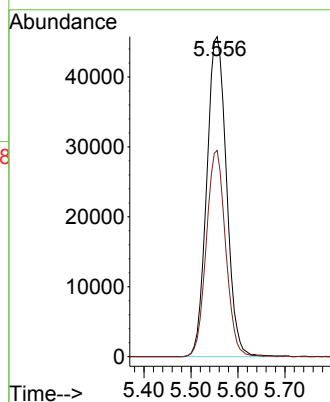
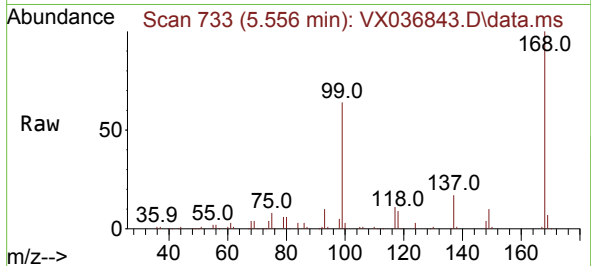




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX036843.D  
Acq: 07 Aug 2023 17:41

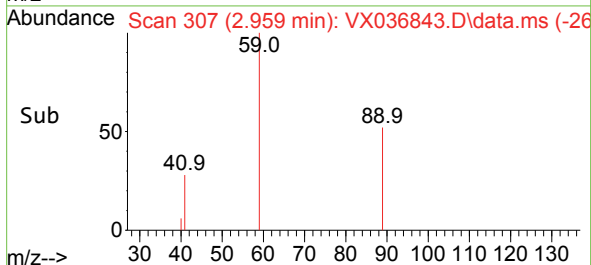
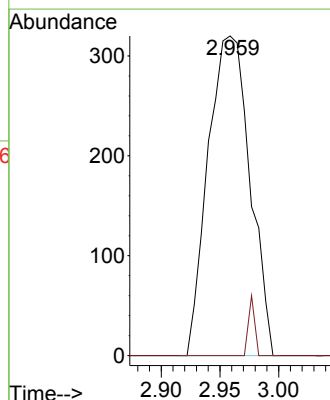
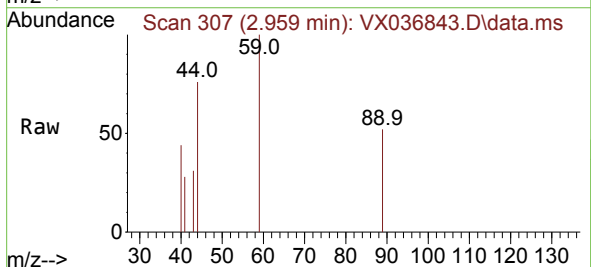
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-2

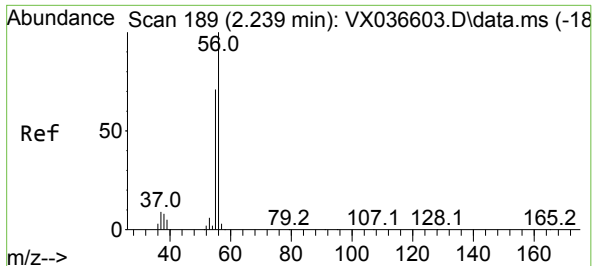
Tgt Ion:168 Resp: 133371  
Ion Ratio Lower Upper  
168 100  
99 64.5 56.6 85.0



#11  
Tert butyl alcohol  
Concen: 1.697 ug/l  
RT: 2.959 min Scan# 307  
Delta R.T. -0.031 min  
Lab File: VX036843.D  
Acq: 07 Aug 2023 17:41

Tgt Ion: 59 Resp: 793  
Ion Ratio Lower Upper  
59 100  
57 2.8 6.0 9.0#

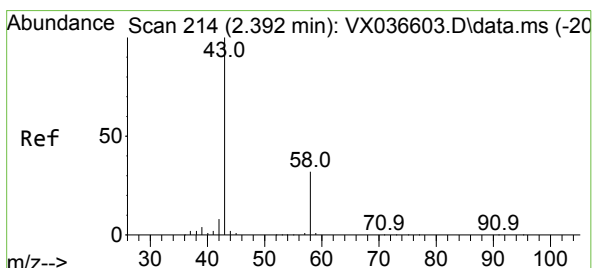
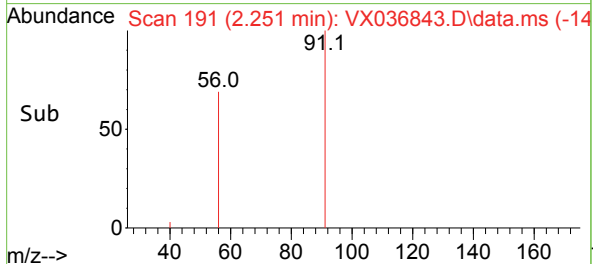
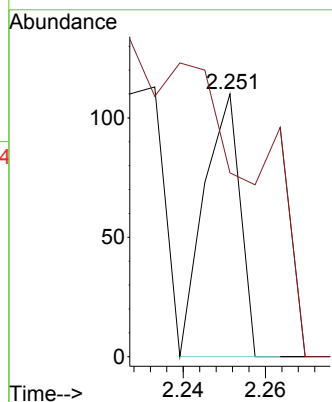
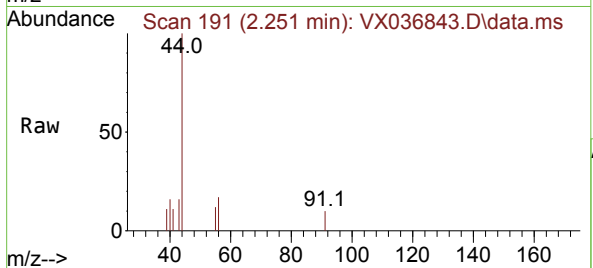




#13  
Acrolein  
Concen: 0.251 ug/l  
RT: 2.251 min Scan# 191  
Delta R.T. 0.012 min  
Lab File: VX036843.D  
Acq: 07 Aug 2023 17:41

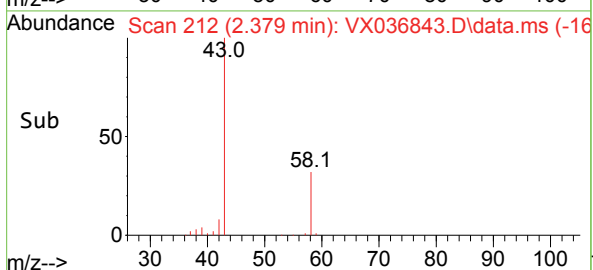
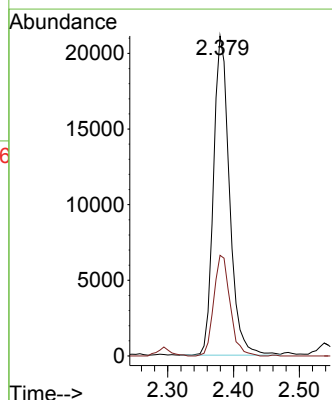
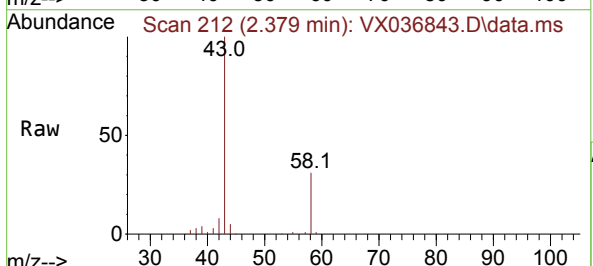
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-2

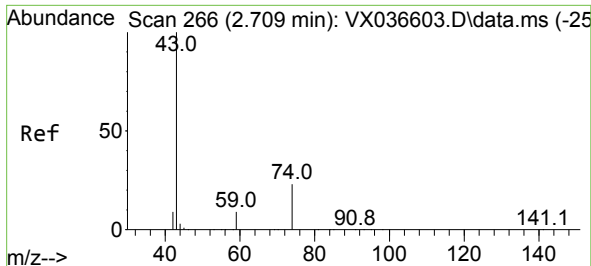
Tgt Ion: 56 Resp: 67  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.1 85.7#



#16  
Acetone  
Concen: 43.807 ug/l  
RT: 2.379 min Scan# 212  
Delta R.T. -0.012 min  
Lab File: VX036843.D  
Acq: 07 Aug 2023 17:41

Tgt Ion: 43 Resp: 35873  
Ion Ratio Lower Upper  
43 100  
58 31.5 21.9 32.9





#18

Methyl Acetate

Concen: 0.510 ug/l

RT: 2.703 min Scan# 265

Delta R.T. -0.006 min

Lab File: VX036843.D

Acq: 07 Aug 2023 17:41

Instrument :

MSVOA\_X

ClientSampleId :

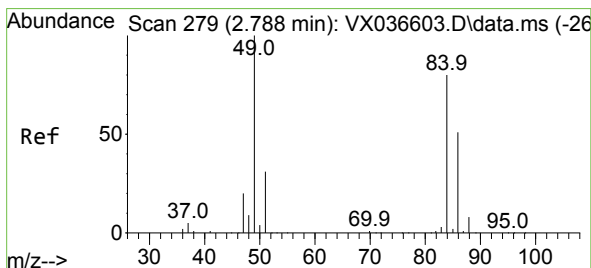
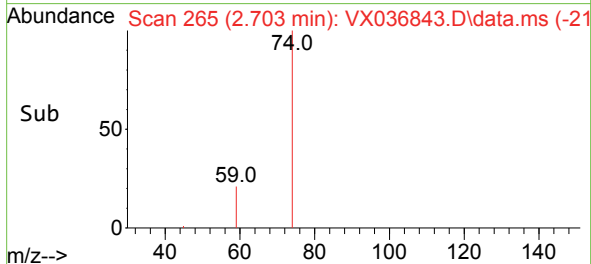
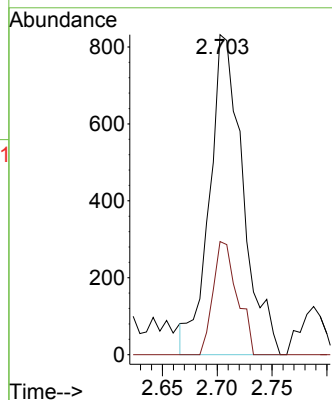
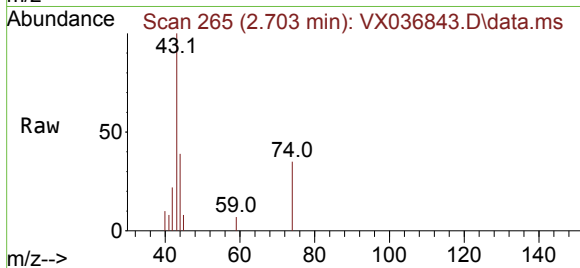
TP-2

Tgt Ion: 43 Resp: 1757

Ion Ratio Lower Upper

43 100

74 25.6 17.8 26.8



#20

Methylene Chloride

Concen: 7.708 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX036843.D

Acq: 07 Aug 2023 17:41

Tgt Ion: 84 Resp: 14037

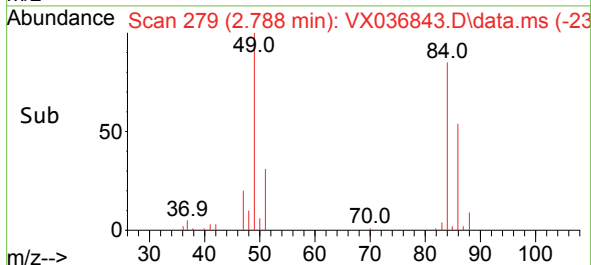
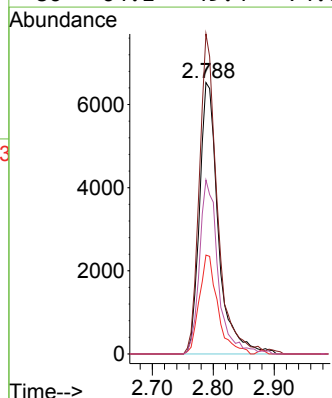
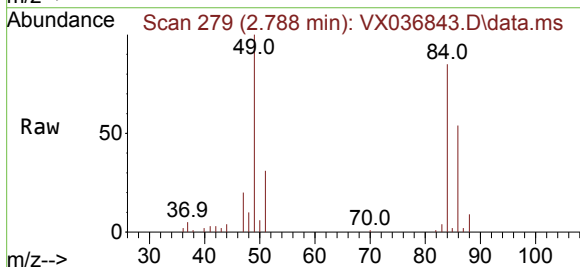
Ion Ratio Lower Upper

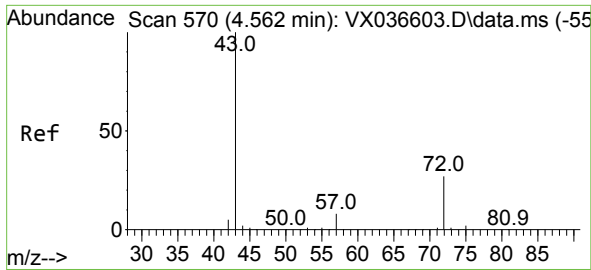
84 100

49 117.9 103.6 155.4

51 36.4 33.8 50.6

86 64.1 49.4 74.0

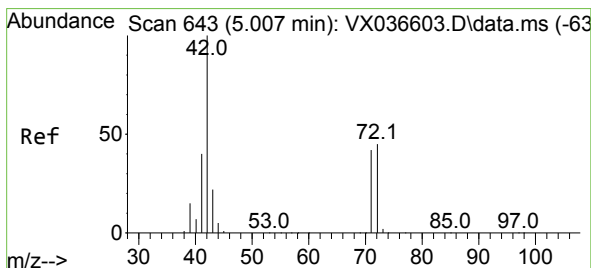
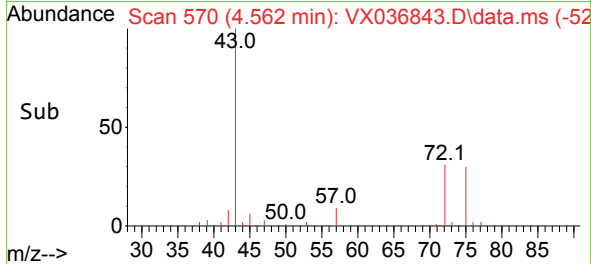
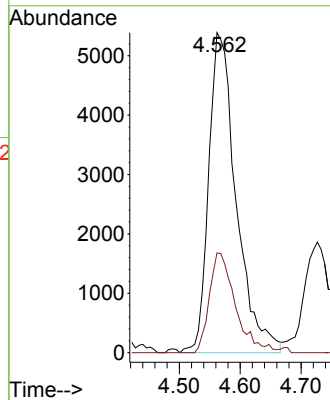
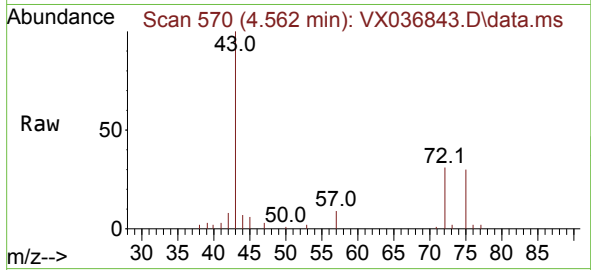




#25  
2-Butanone  
Concen: 12.730 ug/l  
RT: 4.562 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VX036843.D  
Acq: 07 Aug 2023 17:41

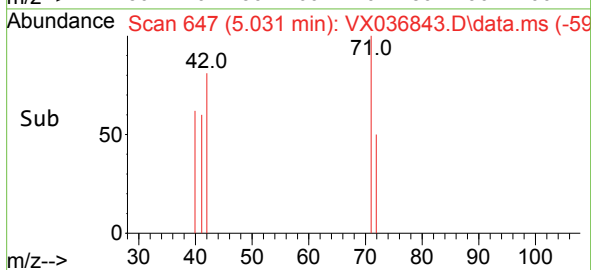
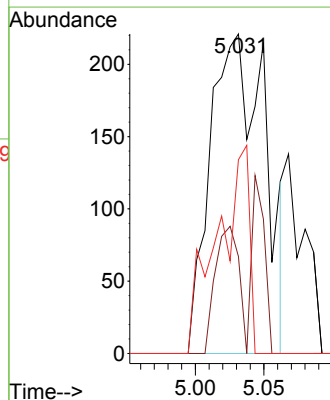
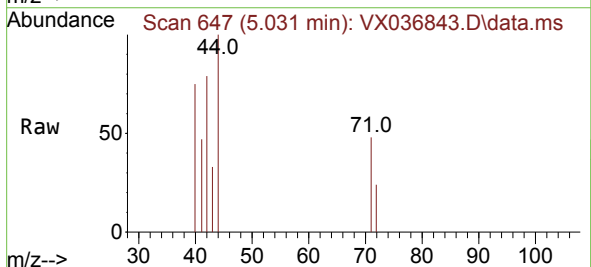
Instrument :  
MSVOA\_X  
ClientSampleId :  
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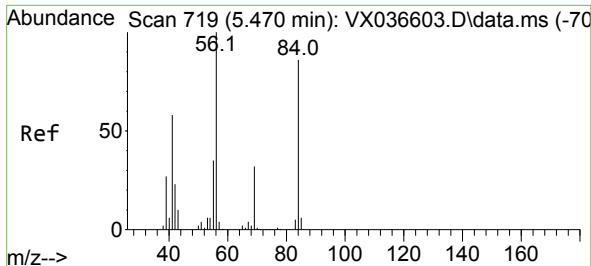
Tgt Ion: 43 Resp: 16913  
Ion Ratio Lower Upper  
43 100  
72 31.2 19.4 29.2#



#29  
Tetrahydrofuran  
Concen: 0.714 ug/l  
RT: 5.031 min Scan# 647  
Delta R.T. 0.024 min  
Lab File: VX036843.D  
Acq: 07 Aug 2023 17:41

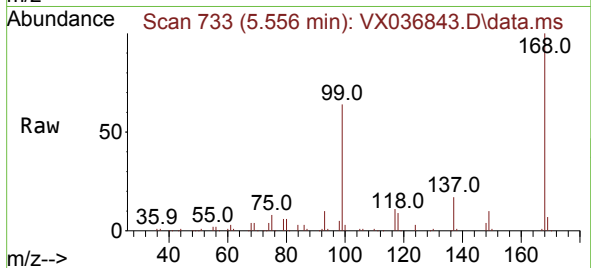
Tgt Ion: 42 Resp: 612  
Ion Ratio Lower Upper  
42 100  
72 12.9 34.2 51.4#  
71 37.9 32.2 48.2



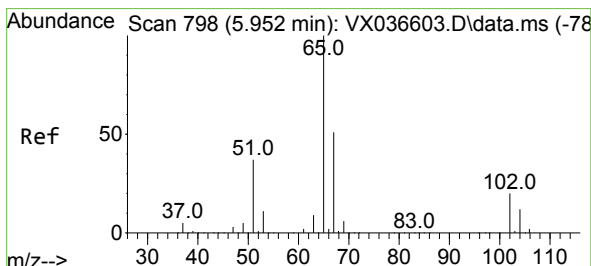
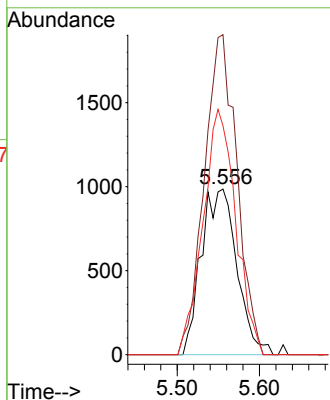
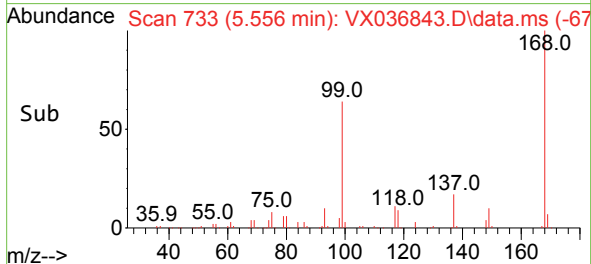


#31  
Cyclohexane  
Concen: 1.089 ug/l  
RT: 5.556 min Scan# 719  
Delta R.T. 0.085 min  
Lab File: VX036843.D  
Acq: 07 Aug 2023 17:41

Instrument :  
MSVOA\_X  
ClientSampleId :  
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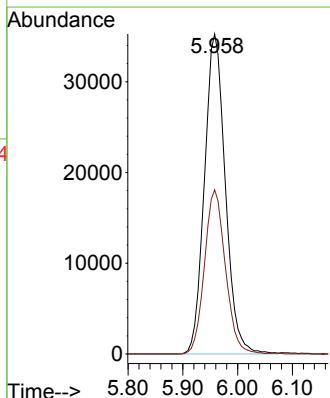
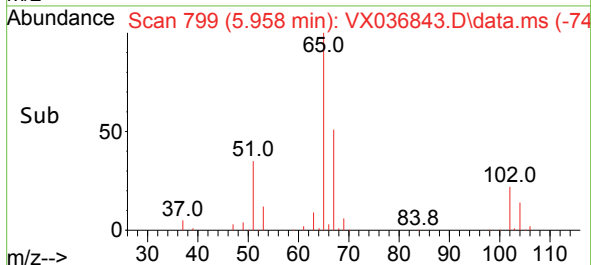
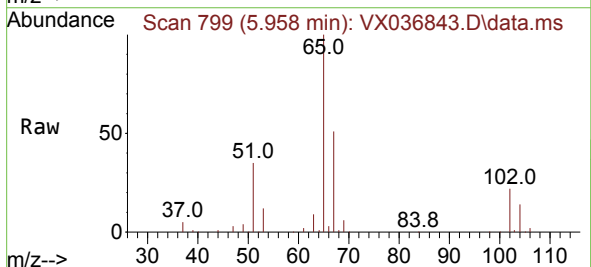


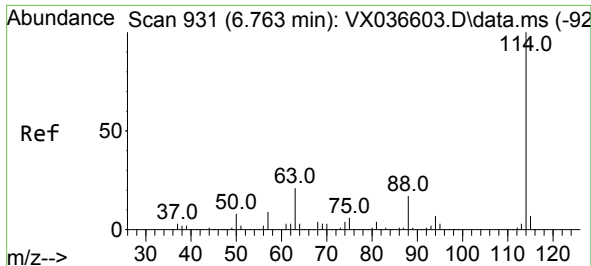
Tgt Ion: 56 Resp: 2975  
Ion Ratio Lower Upper  
56 100  
69 193.2 23.4 35.2#  
84 138.1 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 47.271 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.006 min  
Lab File: VX036843.D  
Acq: 07 Aug 2023 17:41

Tgt Ion: 65 Resp: 93285  
Ion Ratio Lower Upper  
65 100  
67 51.4 0.0 100.2

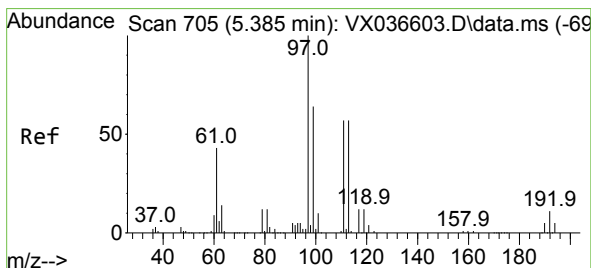
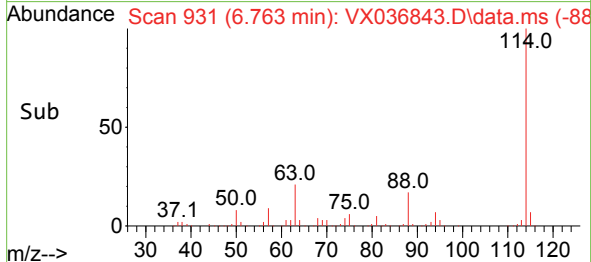
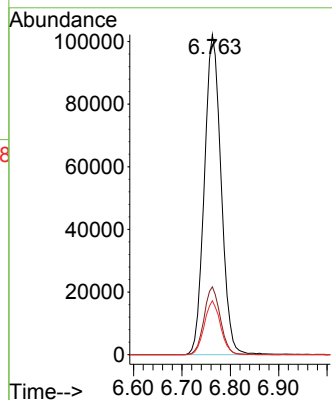
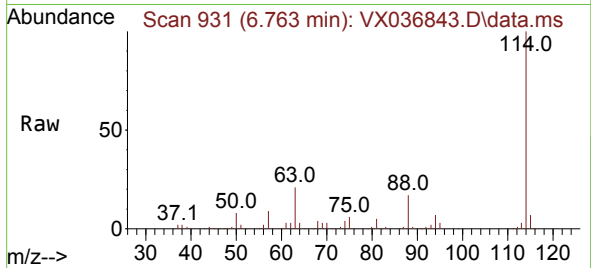




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX036843.D  
Acq: 07 Aug 2023 17:41

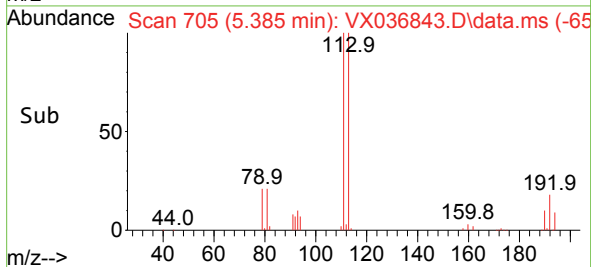
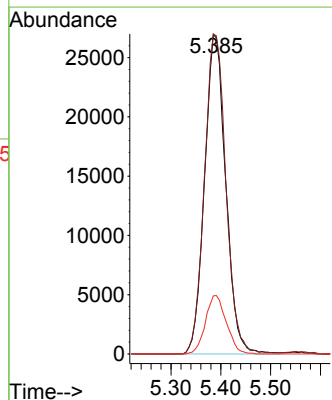
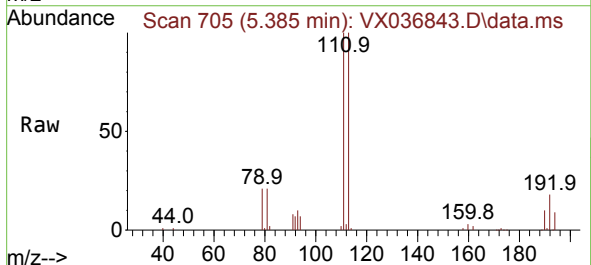
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-2

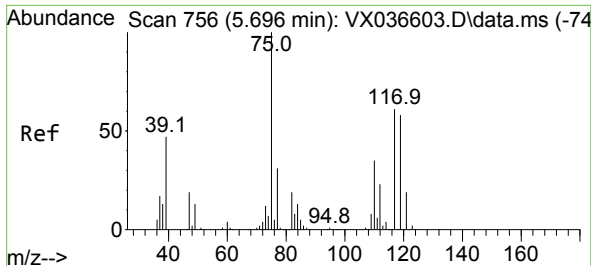
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Ion Ratio Lower Upper  
114 100  
63 21.2 0.0 45.0  
88 16.9 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 47.048 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX036843.D  
Acq: 07 Aug 2023 17:41

Tgt Ion:113 Resp: 79408  
Ion Ratio Lower Upper  
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111 101.9 82.9 124.3  
192 18.1 13.3 19.9

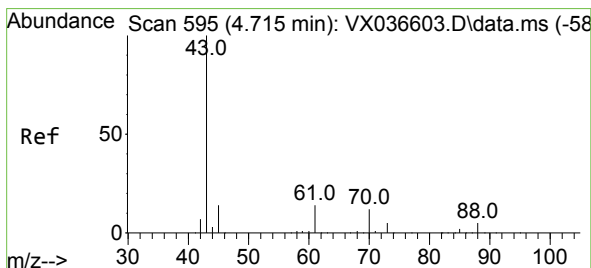
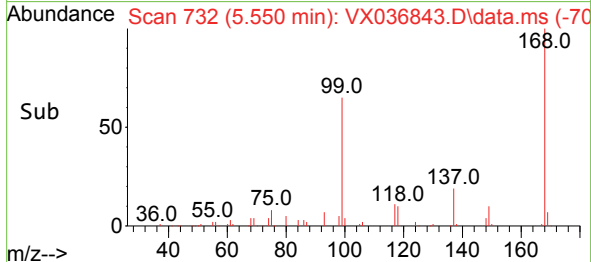
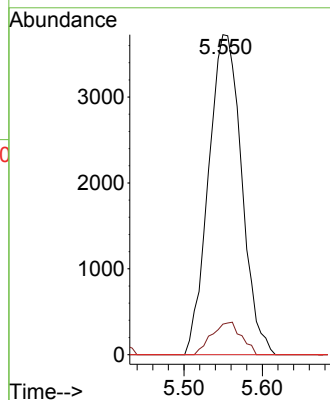
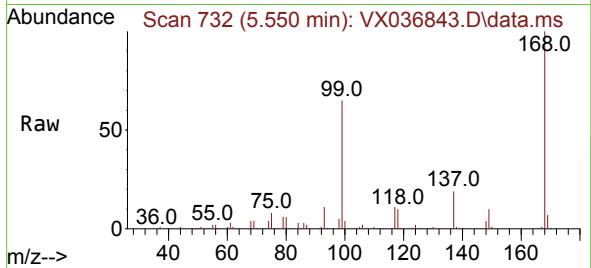




#36  
1,1-Dichloropropene  
Concen: 4.350 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.146 min  
Lab File: VX036843.D  
Acq: 07 Aug 2023 17:41

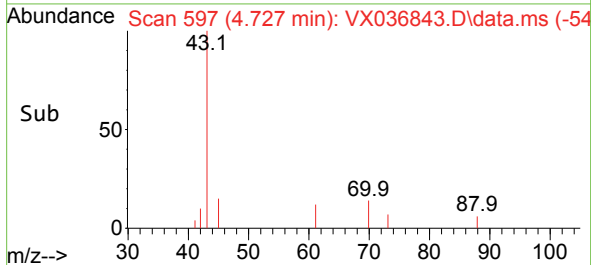
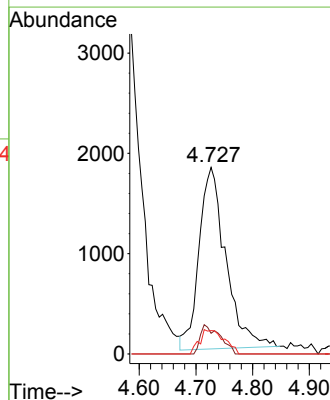
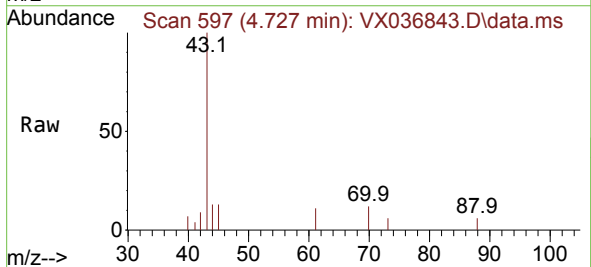
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-2

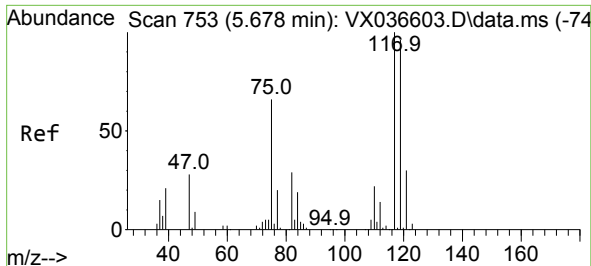
Tgt Ion: 75 Resp: 10943  
Ion Ratio Lower Upper  
75 100  
110 9.1 17.0 50.9#  
77 0.0 24.7 37.1#



#37  
Ethyl Acetate  
Concen: 2.086 ug/l  
RT: 4.727 min Scan# 597  
Delta R.T. 0.012 min  
Lab File: VX036843.D  
Acq: 07 Aug 2023 17:41

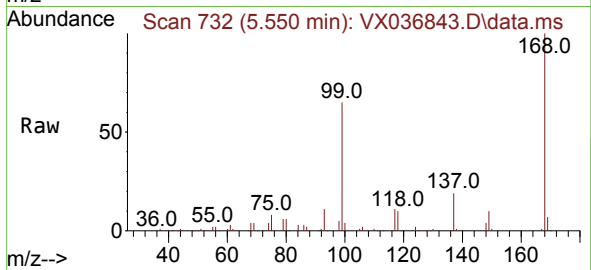
Tgt Ion: 43 Resp: 5940  
Ion Ratio Lower Upper  
43 100  
61 11.7 10.6 16.0  
70 12.2 8.3 12.5



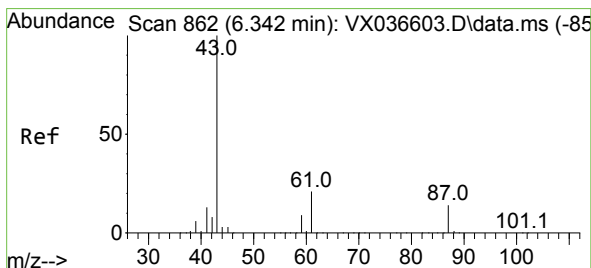
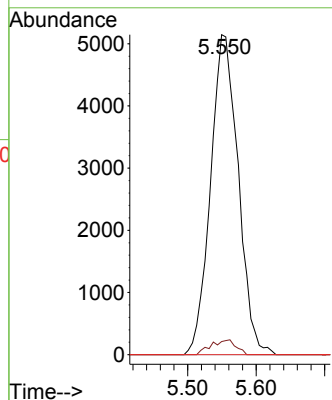
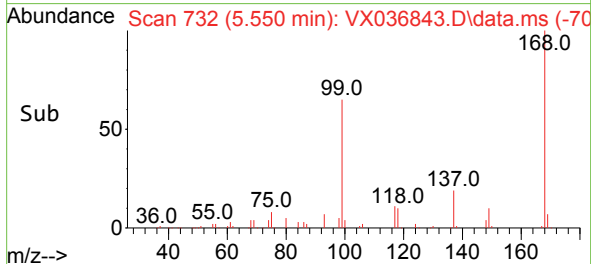


#38  
Carbon Tetrachloride  
Concen: 5.397 ug/l  
RT: 5.550 min Scan# 711  
Delta R.T. -0.128 min  
Lab File: VX036843.D  
Acq: 07 Aug 2023 17:41

Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-2

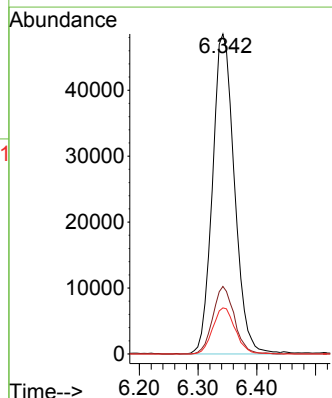
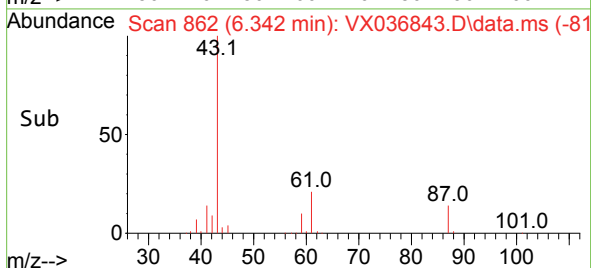
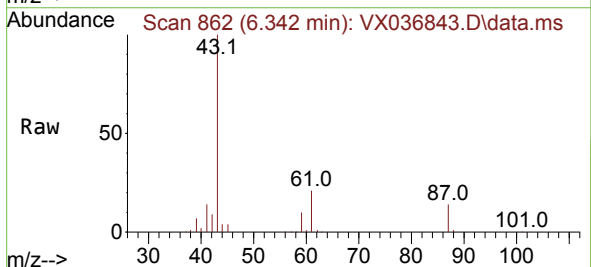


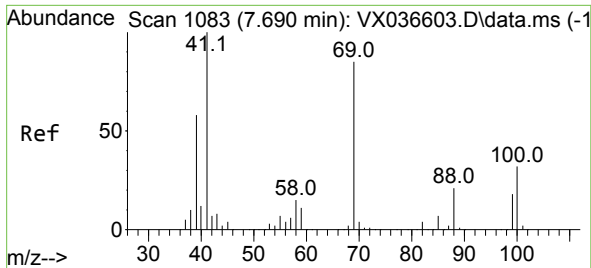
Tgt Ion:117 Resp: 14433  
Ion Ratio Lower Upper  
117 100  
119 4.1 78.2 117.2#  
121 0.0 24.4 36.6#



#43  
Isopropyl Acetate  
Concen: 25.700 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. -0.000 min  
Lab File: VX036843.D  
Acq: 07 Aug 2023 17:41

Tgt Ion: 43 Resp: 125964  
Ion Ratio Lower Upper  
43 100  
61 20.7 15.2 22.8  
87 14.8 9.8 14.6#

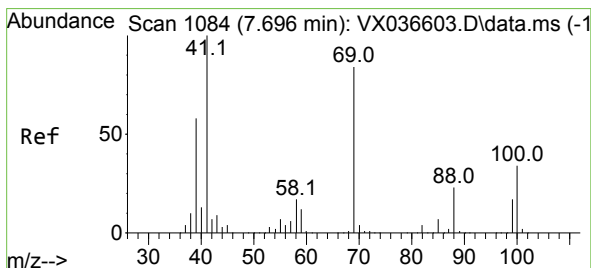
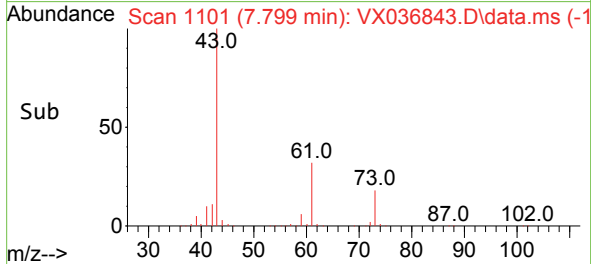
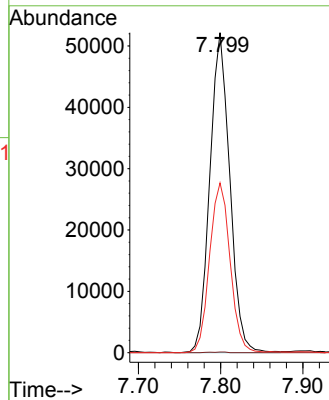
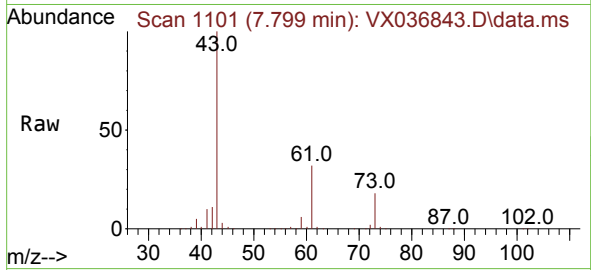




#48  
Methyl methacrylate  
Concen: 38.561 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.110 min  
Lab File: VX036843.D  
Acq: 07 Aug 2023 17:41

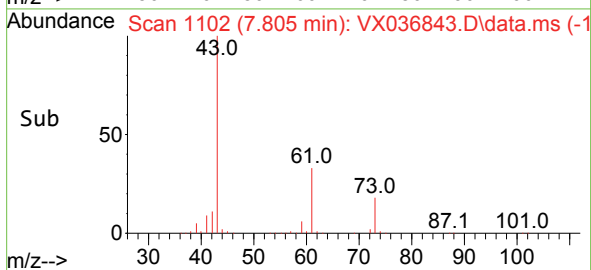
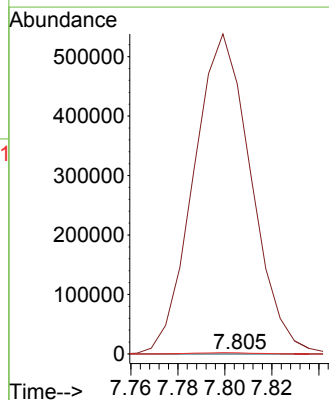
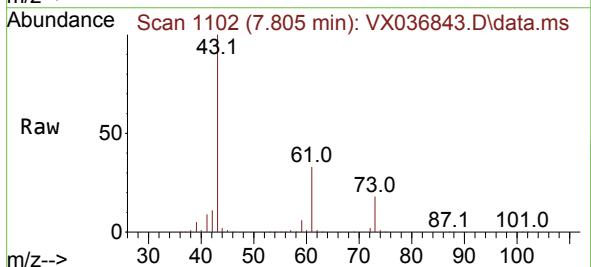
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-2

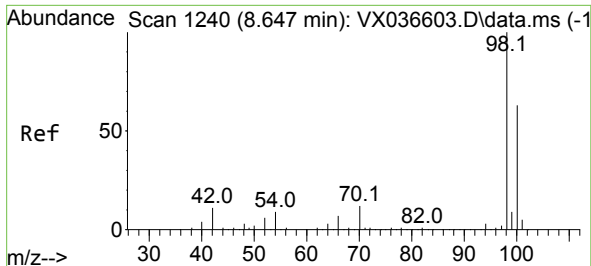
Tgt Ion: 41 Resp: 87895  
Ion Ratio Lower Upper  
41 100  
69 0.2 59.2 88.8#  
39 54.4 47.7 71.5



#49  
1,4-Dioxane  
Concen: 2.389 ug/l  
RT: 7.805 min Scan# 1102  
Delta R.T. 0.110 min  
Lab File: VX036843.D  
Acq: 07 Aug 2023 17:41

Tgt Ion: 88 Resp: 110  
Ion Ratio Lower Upper  
88 100  
43 842233.6 0.0 0.0#  
58 3334.5 60.1 90.1#

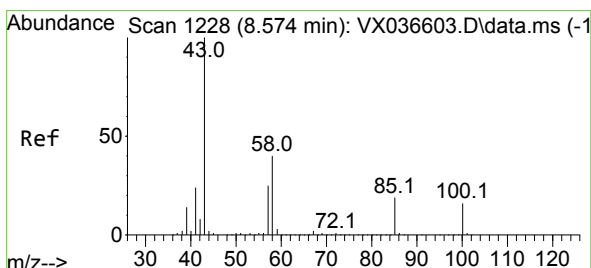
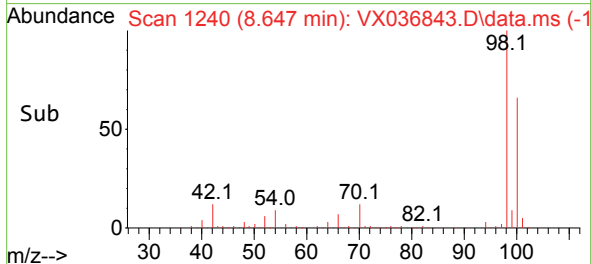
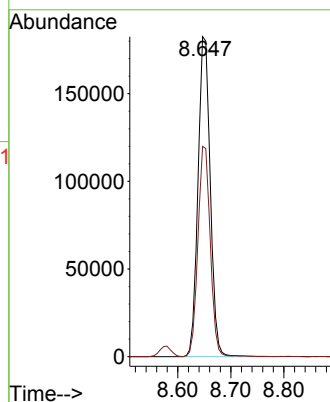
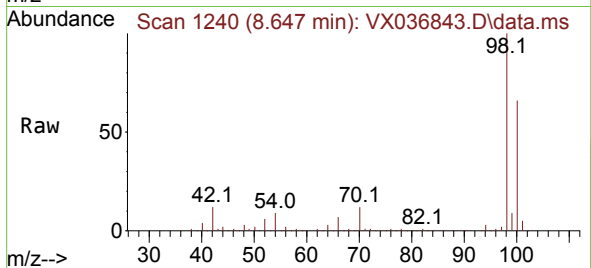




#50  
Toluene-d8  
Concen: 48.984 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX036843.D  
Acq: 07 Aug 2023 17:41

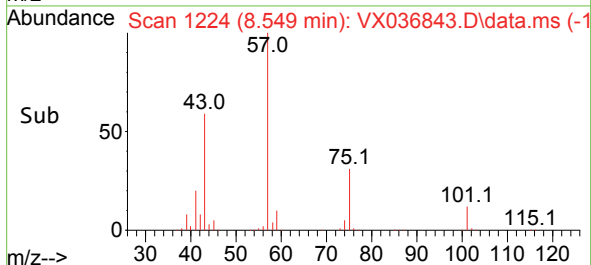
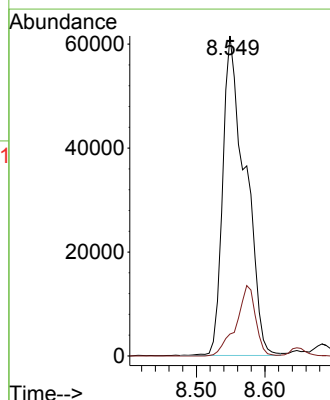
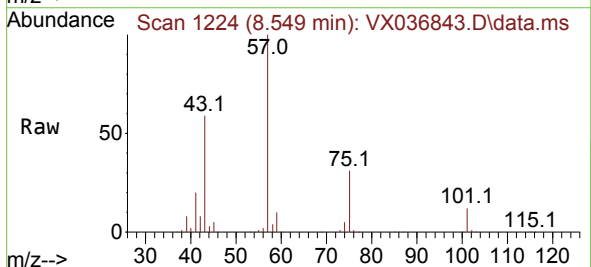
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-2

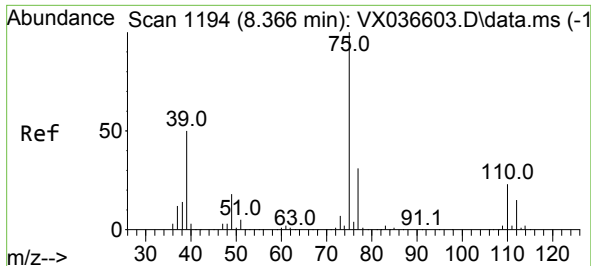
Tgt Ion: 98 Resp: 293185  
Ion Ratio Lower Upper  
98 100  
100 66.0 53.1 79.7



#51  
4-Methyl-2-Pentanone  
Concen: 51.889 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.025 min  
Lab File: VX036843.D  
Acq: 07 Aug 2023 17:41

Tgt Ion: 43 Resp: 140743  
Ion Ratio Lower Upper  
43 100  
58 0.0 30.4 45.6#

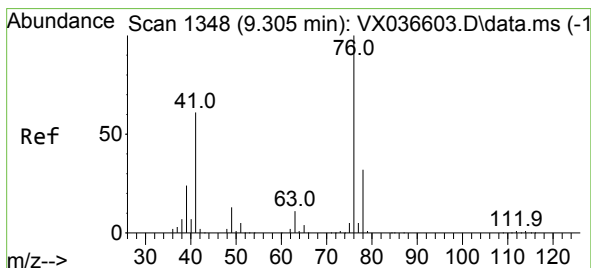
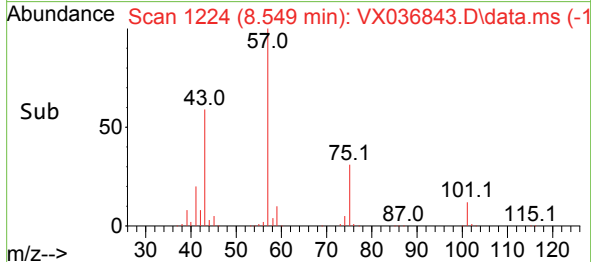
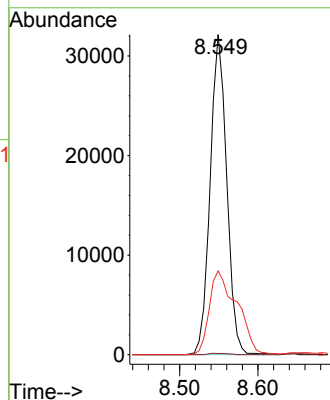
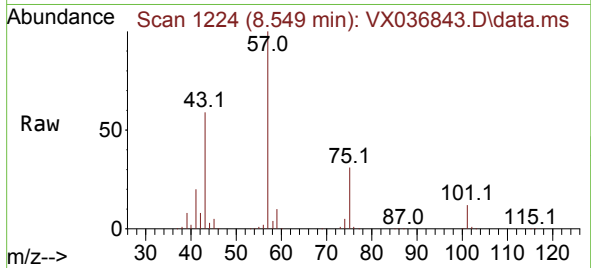




#54  
 cis-1,3-Dichloropropene  
 Concen: 14.076 ug/l  
 RT: 8.549 min Scan# 1194  
 Delta R.T. 0.183 min  
 Lab File: VX036843.D  
 Acq: 07 Aug 2023 17:41

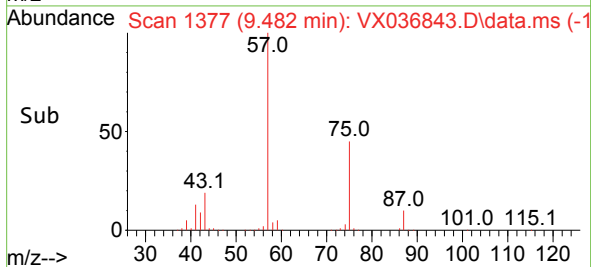
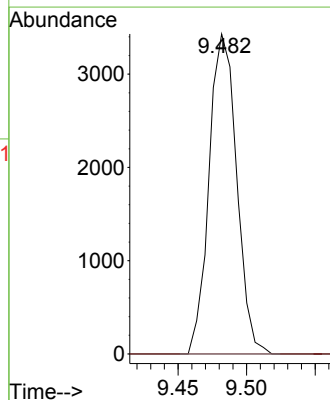
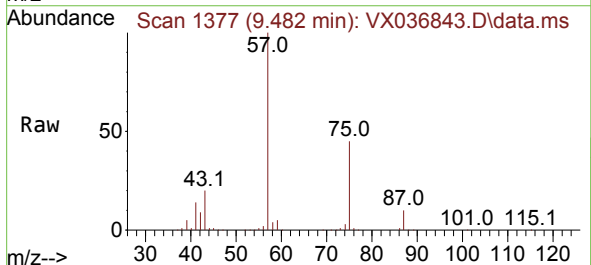
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP-2

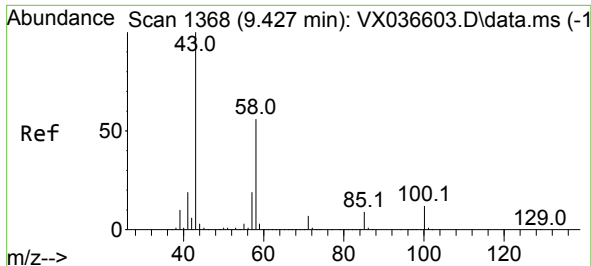
Tgt Ion: 75 Resp: 47127  
 Ion Ratio Lower Upper  
 75 100  
 77 0.3 25.3 37.9#  
 39 26.1 46.7 70.1#



#57  
 1,3-Dichloropropane  
 Concen: 1.498 ug/l  
 RT: 9.482 min Scan# 1377  
 Delta R.T. 0.177 min  
 Lab File: VX036843.D  
 Acq: 07 Aug 2023 17:41

Tgt Ion: 76 Resp: 4811  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 26.1 39.1#

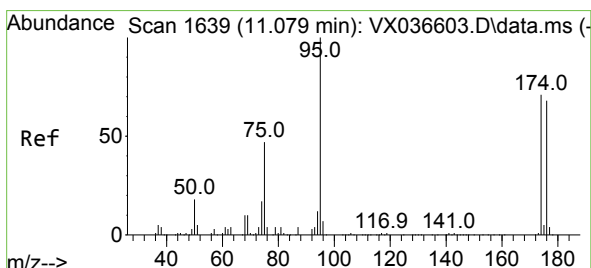
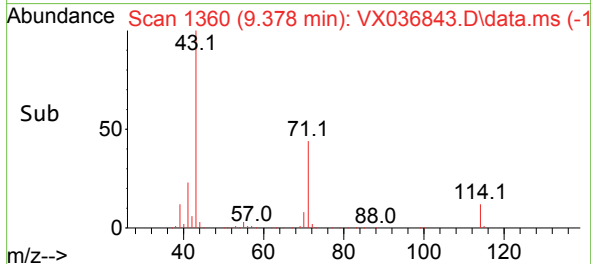
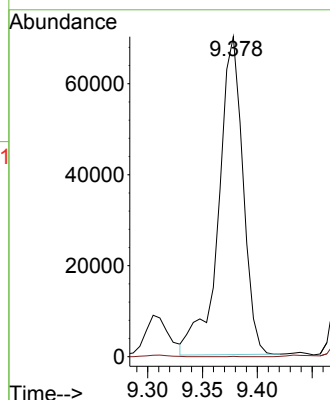
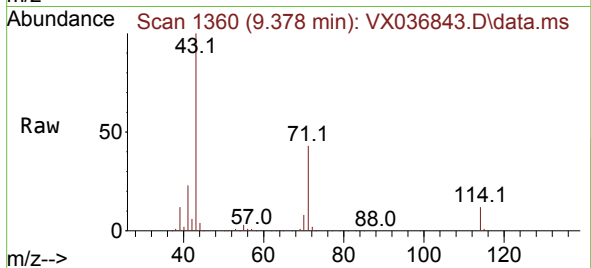




#59  
2-Hexanone  
Concen: 53.792 ug/l  
RT: 9.378 min Scan# 11  
Delta R.T. -0.049 min  
Lab File: VX036843.D  
Acq: 07 Aug 2023 17:41

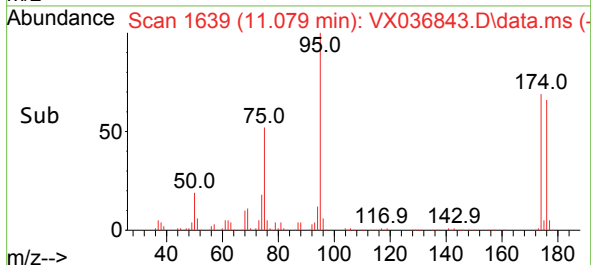
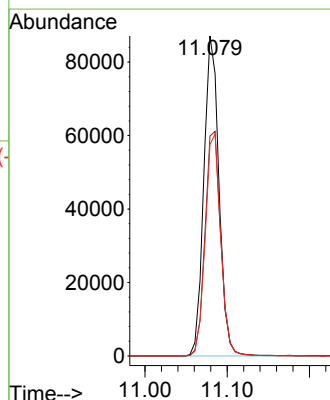
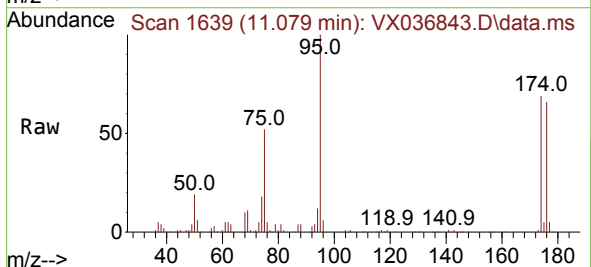
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-2

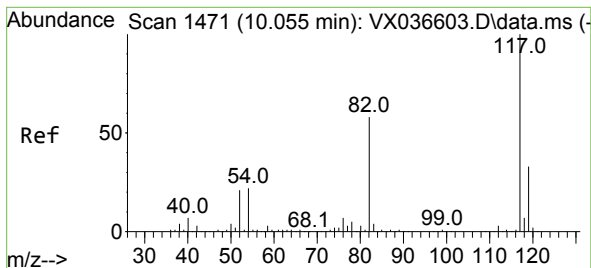
Tgt Ion: 43 Resp: 108284  
Ion Ratio Lower Upper  
43 100  
58 0.0 26.2 78.5#



#62  
4-Bromofluorobenzene  
Concen: 49.357 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX036843.D  
Acq: 07 Aug 2023 17:41

Tgt Ion: 95 Resp: 111456  
Ion Ratio Lower Upper  
95 100  
174 72.8 0.0 135.6  
176 70.5 0.0 131.0

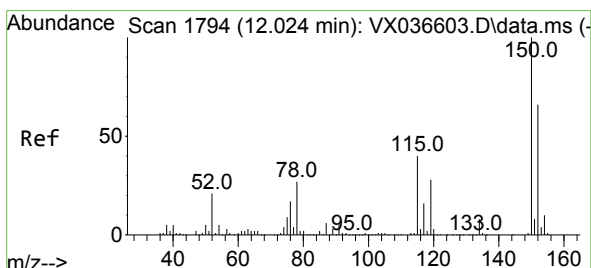
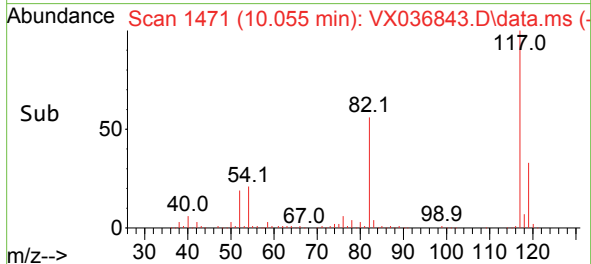
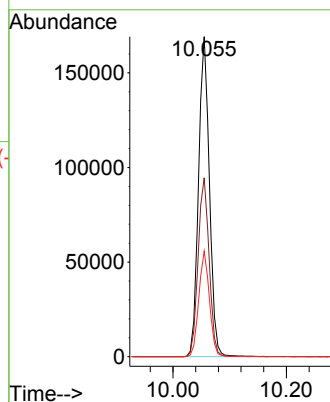
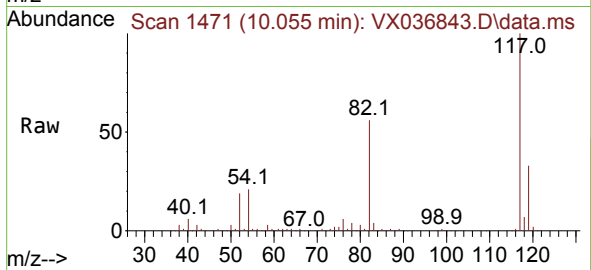




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX036843.D  
Acq: 07 Aug 2023 17:41

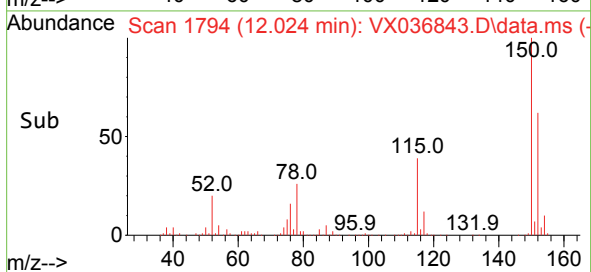
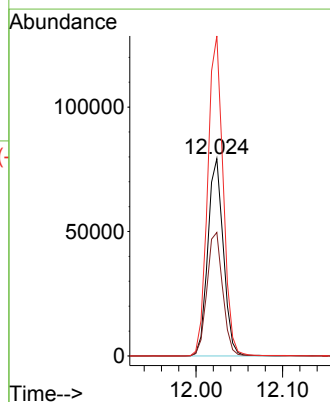
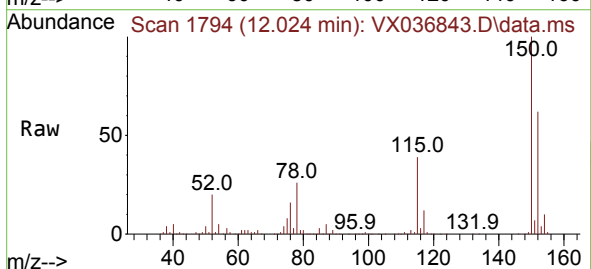
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-2

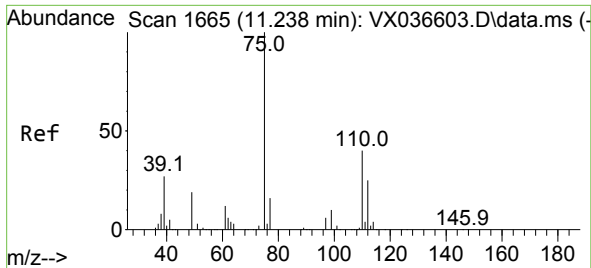
Tgt Ion:117 Resp: 225071  
Ion Ratio Lower Upper  
117 100  
82 55.9 46.2 69.4  
119 33.0 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VX036843.D  
Acq: 07 Aug 2023 17:41

Tgt Ion:152 Resp: 98889  
Ion Ratio Lower Upper  
152 100  
115 63.7 43.3 129.9  
150 161.2 0.0 345.0

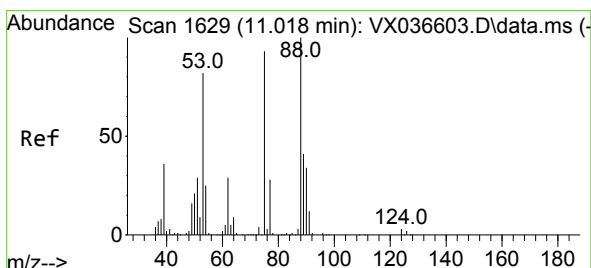
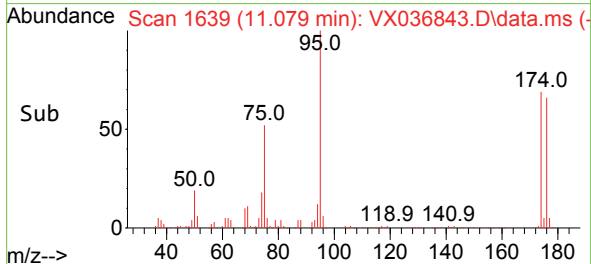
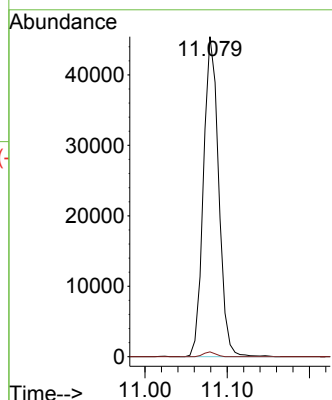
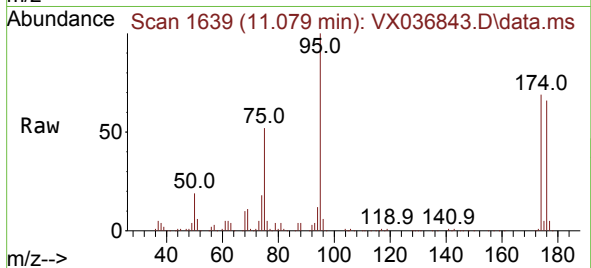




#76  
1,2,3-Trichloropropane  
Concen: 25.126 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX036843.D  
Acq: 07 Aug 2023 17:41

Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-2

Tgt Ion: 75 Resp: 58442  
Ion Ratio Lower Upper  
75 100  
77 1.2 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 56.949 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX036843.D  
Acq: 07 Aug 2023 17:41

Tgt Ion: 75 Resp: 58442  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.1 36.9 55.3#

