

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX070523\  
 Data File : VX036409.D  
 Acq On : 05 Jul 2023 17:18  
 Operator : JC/MD  
 Sample : PB153983ZHE#10  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB153983ZHE#10

Quant Time: Jul 06 04:54:31 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062323W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 23 15:03:28 2023  
 Response via : Initial Calibration

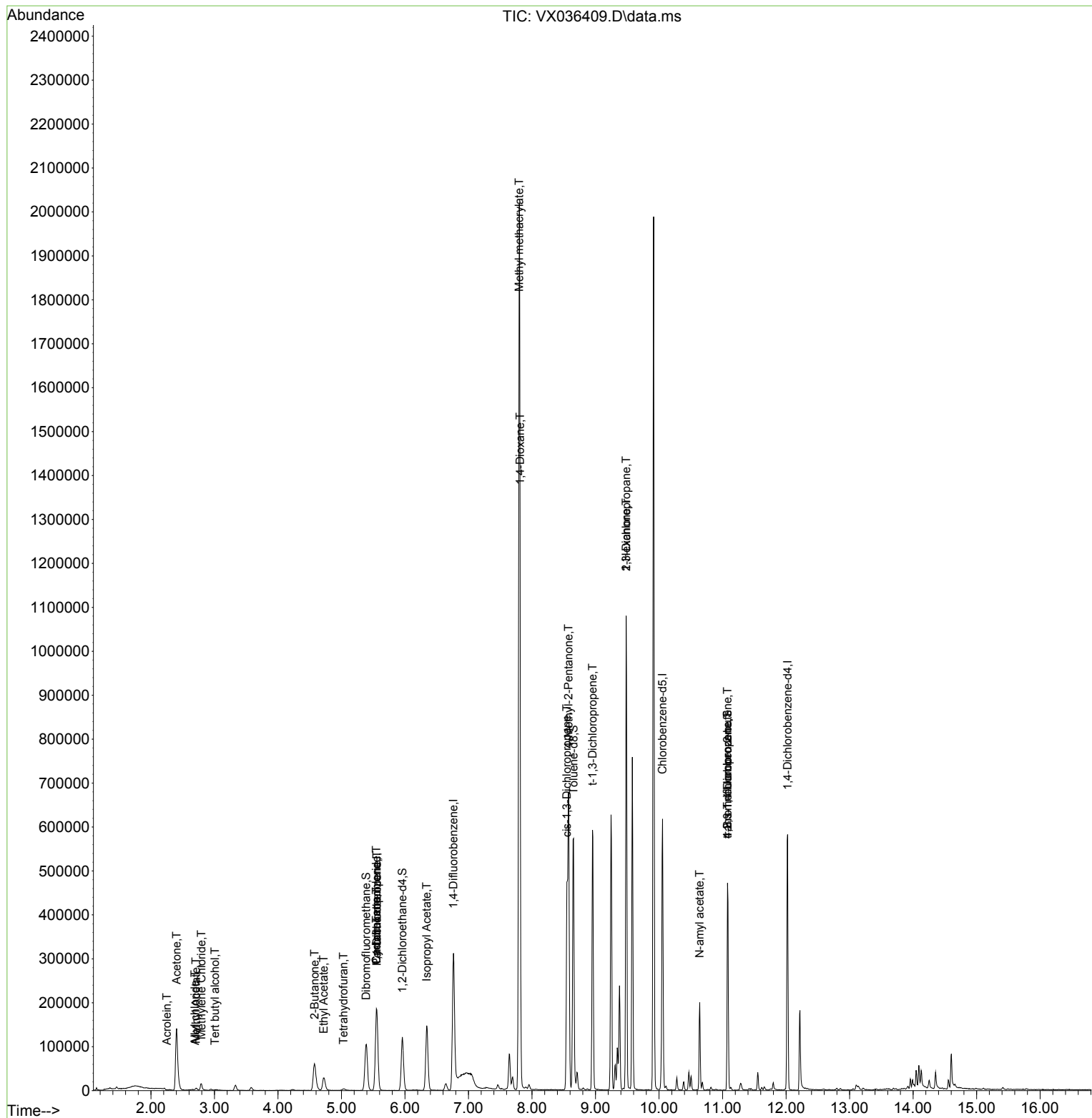
| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| -----                         |                |      |            |         |       |          |
| Internal Standards            |                |      |            |         |       |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 176849     | 50.000  | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 297049     | 50.000  | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 262297     | 50.000  | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 121916     | 50.000  | ug/l  | 0.00     |
|                               |                |      |            |         |       |          |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 111906     | 44.144  | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 88.280% |       |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 92047      | 46.995  | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 93.980% |       |          |
| 50) Toluene-d8                | 8.653          | 98   | 352717     | 48.215  | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 96.420% |       |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 125474     | 48.694  | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 97.380% |       |          |
|                               |                |      |            |         |       |          |
| Target Compounds              |                |      |            |         |       | Qvalue   |
| 11) Tert butyl alcohol        | 3.008          | 59   | 1304       | 2.826   | ug/l  | # 85     |
| 13) Acrolein                  | 2.252          | 56   | 300        | 0.473   | ug/l  | # 14     |
| 14) Allyl chloride            | 2.691          | 41   | 1142       | 0.350   | ug/l  | # 45     |
| 16) Acetone                   | 2.404          | 43   | 219344     | 202.434 | ug/l  | 94       |
| 18) Methyl Acetate            | 2.709          | 43   | 4993       | 1.121   | ug/l  | 96       |
| 20) Methylene Chloride        | 2.794          | 84   | 7834       | 3.358   | ug/l  | 91       |
| 25) 2-Butanone                | 4.574          | 43   | 117647     | 75.569  | ug/l  | 93       |
| 29) Tetrahydrofuran           | 5.032          | 42   | 3946       | 3.981   | ug/l  | # 67     |
| 31) Cyclohexane               | 5.550          | 56   | 3821       | 1.176   | ug/l  | # 1      |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 13705      | 4.694   | ug/l  | # 50     |
| 37) Ethyl Acetate             | 4.721          | 43   | 53945      | 18.128  | ug/l  | 98       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 17803      | 6.676   | ug/l  | # 14     |
| 43) Isopropyl Acetate         | 6.342          | 43   | 200301     | 42.195  | ug/l  | 97       |
| 48) Methyl methacrylate       | 7.799          | 41   | 170499     | 72.034  | ug/l  | # 49     |
| 49) 1,4-Dioxane               | 7.812          | 88   | 334        | 6.365   | ug/l  | # 1      |
| 51) 4-Methyl-2-Pentanone      | 8.574          | 43   | 527045     | 172.328 | ug/l  | # 87     |
| 53) t-1,3-Dichloropropene     | 8.952          | 75   | 1331       | 0.466   | ug/l  | # 43     |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 69687      | 21.583  | ug/l  | # 58     |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 8756       | 2.378   | ug/l  | # 43     |
| 59) 2-Hexanone                | 9.482          | 43   | 123578     | 55.332  | ug/l  | # 52     |
| 74) N-amyl acetate            | 10.640         | 43   | 51771      | 14.246  | ug/l  | # 52     |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 65710      | 25.268  | ug/l  | # 39     |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 65710      | 82.368  | ug/l  | # 5      |
| -----                         |                |      |            |         |       |          |

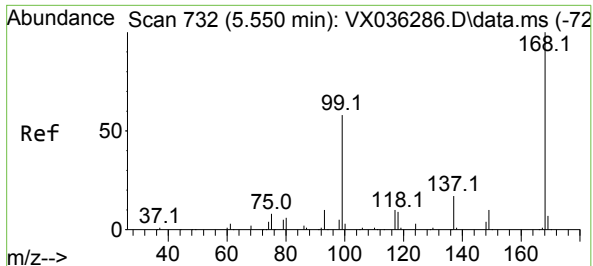
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX070523\  
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ALS Vial : 16 Sample Multiplier: 1

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062323W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 23 15:03:28 2023  
Response via : Initial Calibration

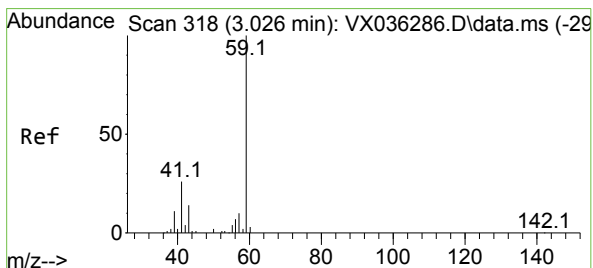
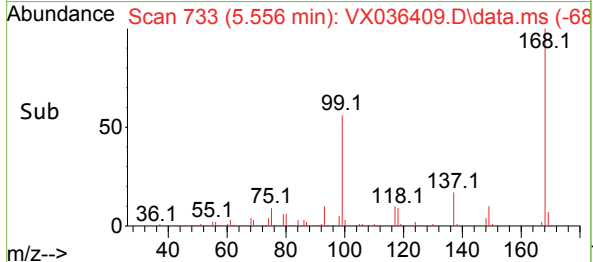
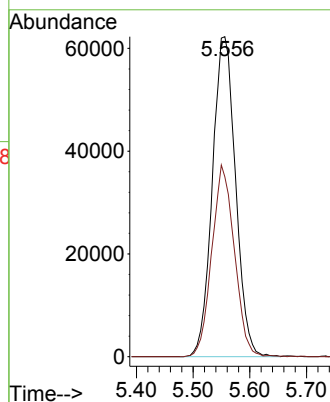
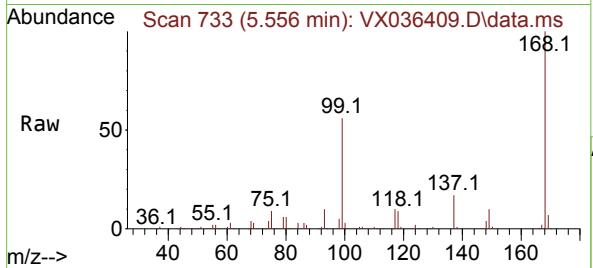




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.007 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

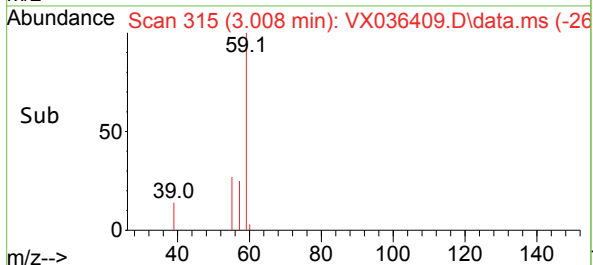
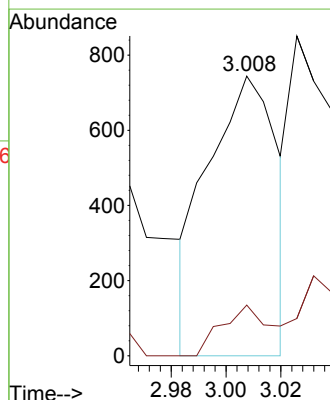
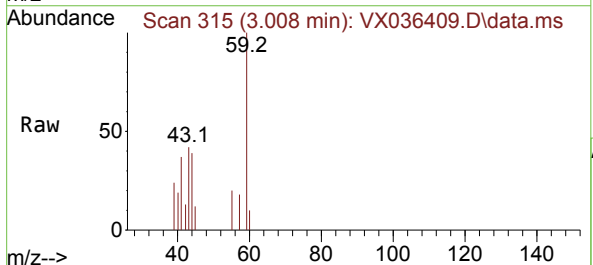
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153983ZHE#10

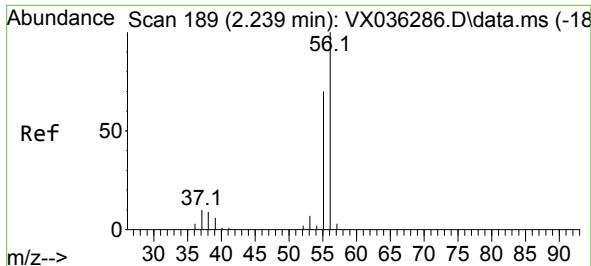
Tgt Ion:168 Resp: 176849  
Ion Ratio Lower Upper  
168 100  
99 56.2 56.6 85.0#



#11  
Tert butyl alcohol  
Concen: 2.826 ug/l  
RT: 3.008 min Scan# 315  
Delta R.T. -0.005 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

Tgt Ion: 59 Resp: 1304  
Ion Ratio Lower Upper  
59 100  
57 12.9 6.0 9.0#

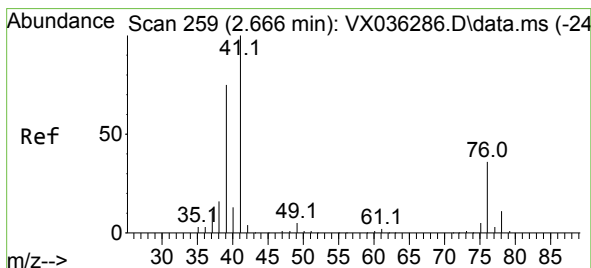
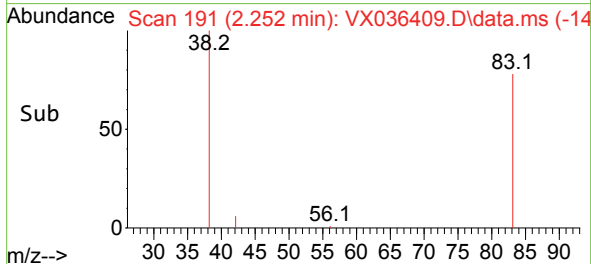
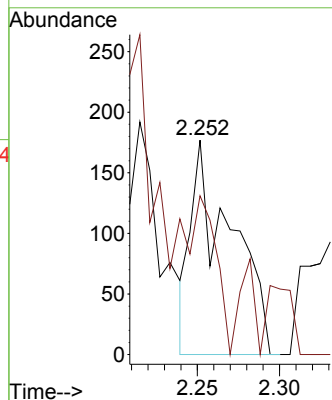
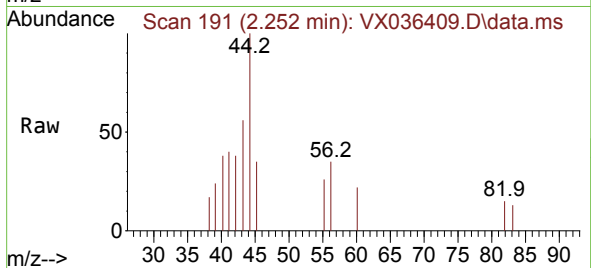




#13  
Acrolein  
Concen: 0.473 ug/l  
RT: 2.252 min Scan# 191  
Delta R.T. 0.013 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

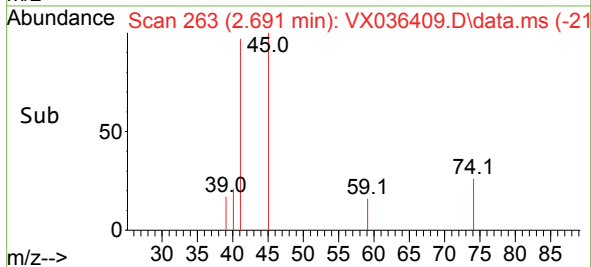
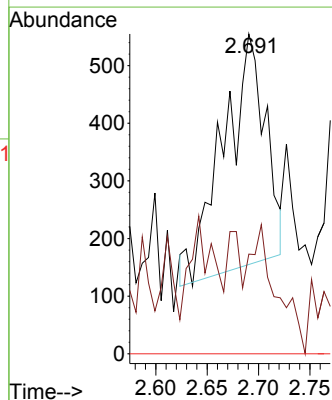
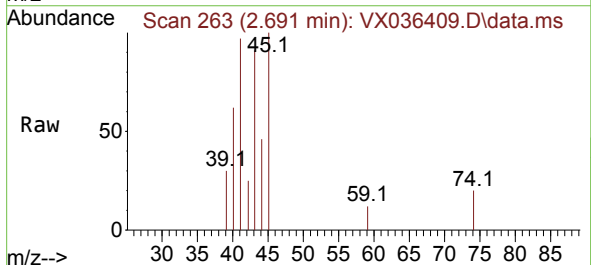
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153983ZHE#10

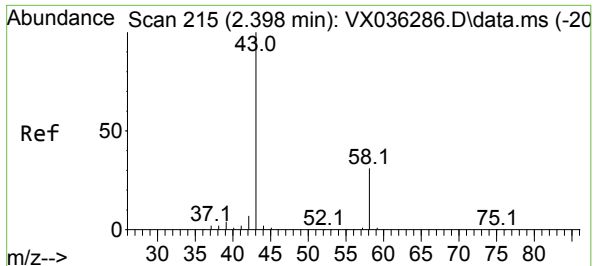
Tgt Ion: 56 Resp: 300  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.1 85.7#



#14  
Allyl chloride  
Concen: 0.350 ug/l  
RT: 2.691 min Scan# 263  
Delta R.T. 0.025 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

Tgt Ion: 41 Resp: 1142  
Ion Ratio Lower Upper  
41 100  
39 25.0 55.8 83.6#  
76 0.0 24.3 36.5#

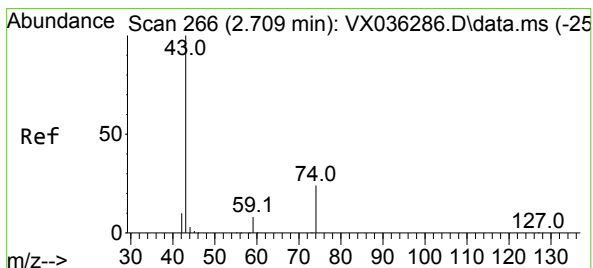
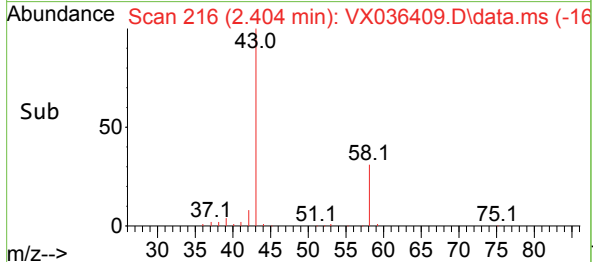
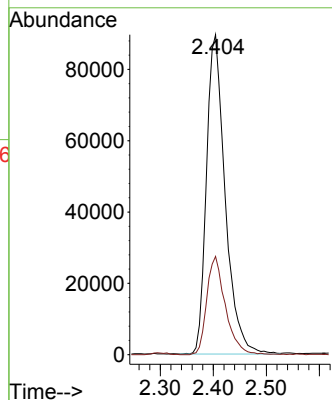
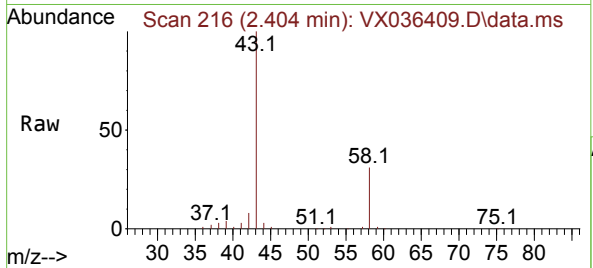




#16  
Acetone  
Concen: 202.434 ug/l  
RT: 2.404 min Scan# 215  
Delta R.T. 0.000 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

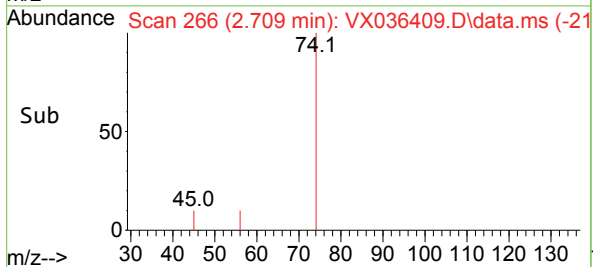
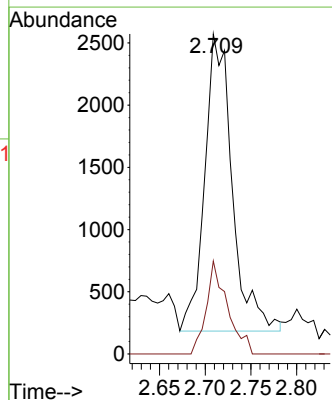
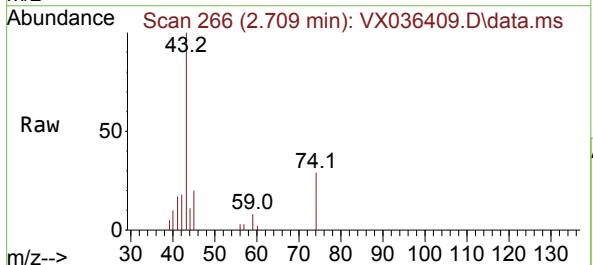
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153983ZHE#10

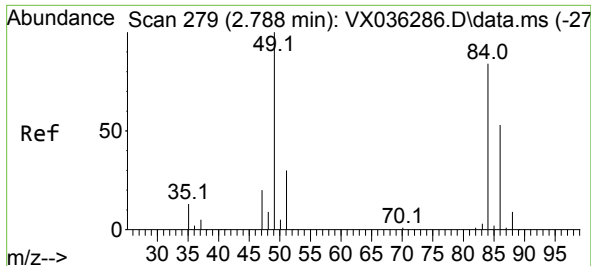
Tgt Ion: 43 Resp: 219344  
Ion Ratio Lower Upper  
43 100  
58 30.8 21.9 32.9



#18  
Methyl Acetate  
Concen: 1.121 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. -0.000 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

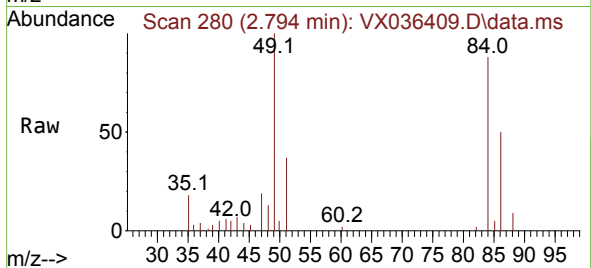
Tgt Ion: 43 Resp: 4993  
Ion Ratio Lower Upper  
43 100  
74 24.0 17.8 26.8



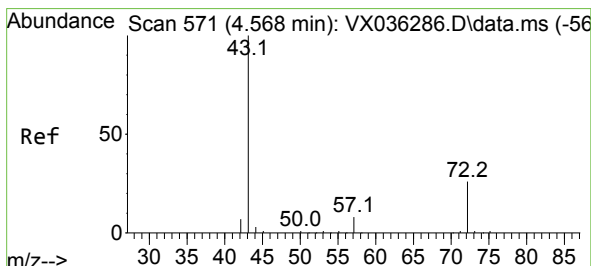
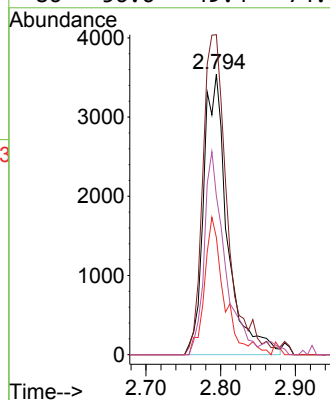
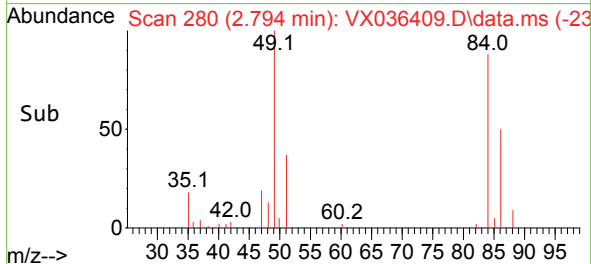


#20  
Methylene Chloride  
Concen: 3.358 ug/l  
RT: 2.794 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153983ZHE#10

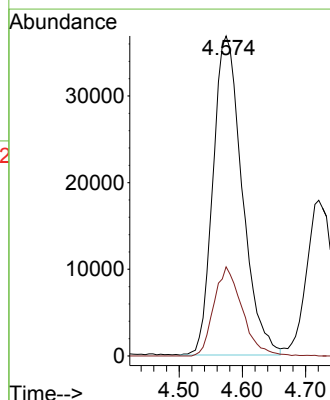
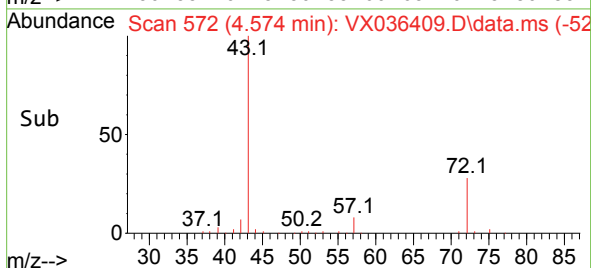
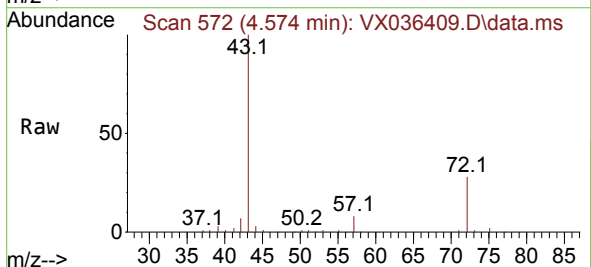


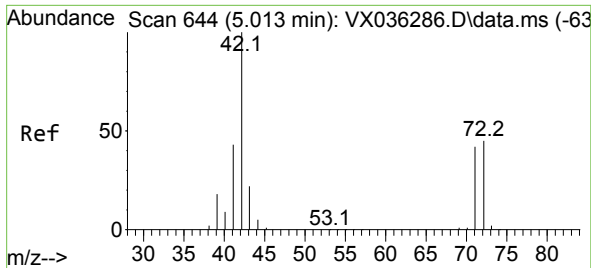
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 7834  |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 114.1    | 103.6 155.4 |
| 51 41.8     | 33.8 50.6   |
| 86 56.6     | 49.4 74.0   |



#25  
2-Butanone  
Concen: 75.569 ug/l  
RT: 4.574 min Scan# 572  
Delta R.T. 0.006 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 117647 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 72 27.9     | 19.4 29.2    |

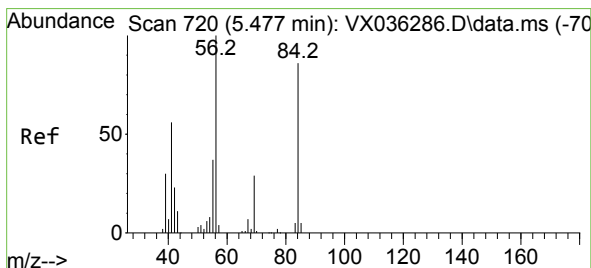
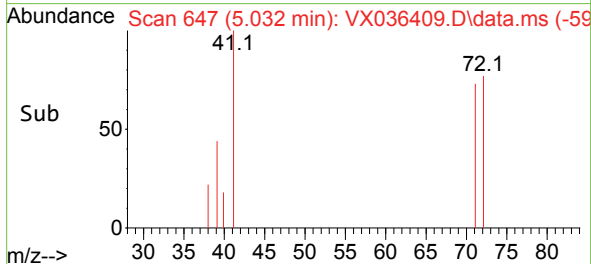
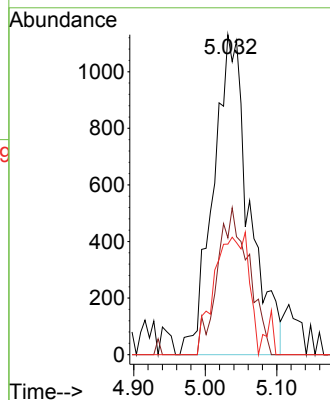
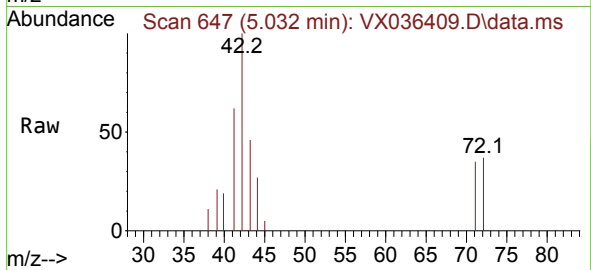




#29  
Tetrahydrofuran  
Concen: 3.981 ug/l  
RT: 5.032 min Scan# 647  
Delta R.T. 0.013 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

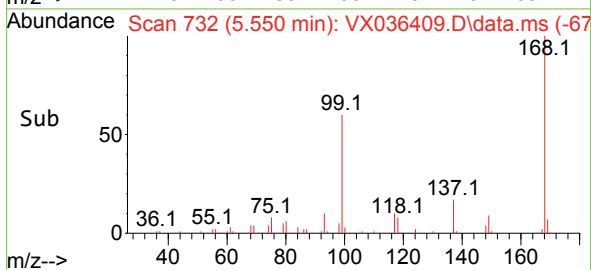
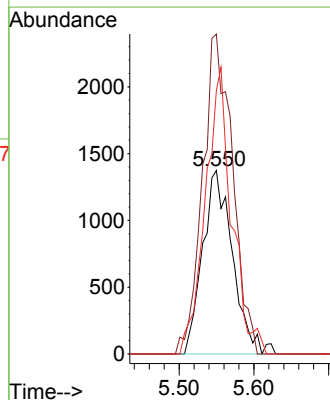
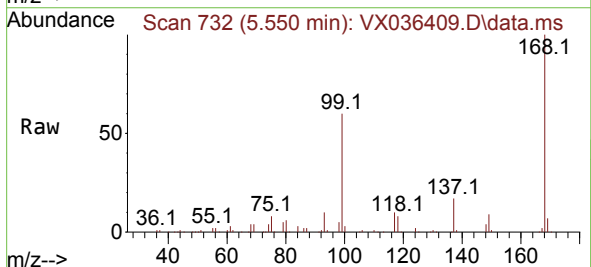
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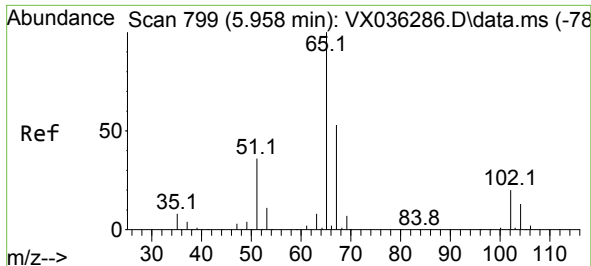
Tgt Ion: 42 Resp: 3946  
Ion Ratio Lower Upper  
42 100  
72 40.4 34.2 51.4  
71 0.0 32.2 48.2#



#31  
Cyclohexane  
Concen: 1.176 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. 0.080 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

Tgt Ion: 56 Resp: 3821  
Ion Ratio Lower Upper  
56 100  
69 174.4 23.4 35.2#  
84 143.6 65.9 98.9#

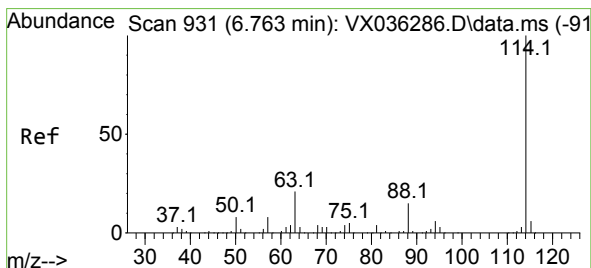
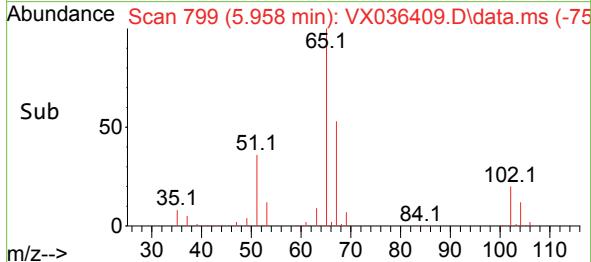
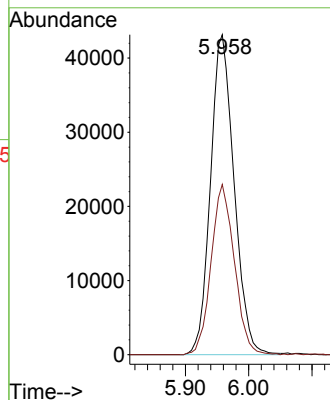
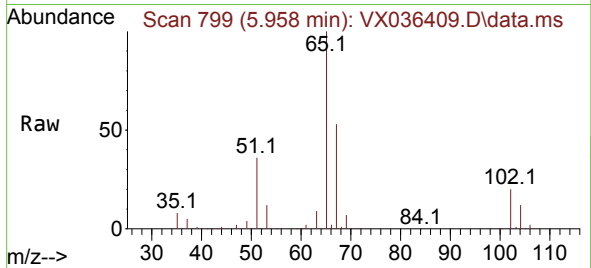




#33  
 1,2-Dichloroethane-d4  
 Concen: 44.144 ug/l  
 RT: 5.958 min Scan# 799  
 Delta R.T. 0.000 min  
 Lab File: VX036409.D  
 Acq: 05 Jul 2023 17:18

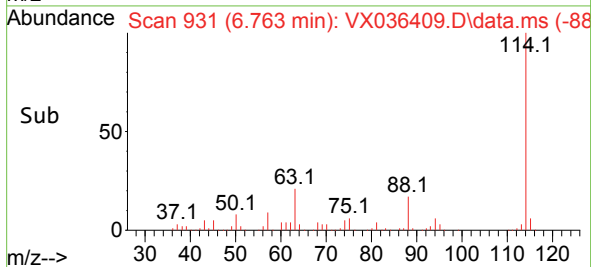
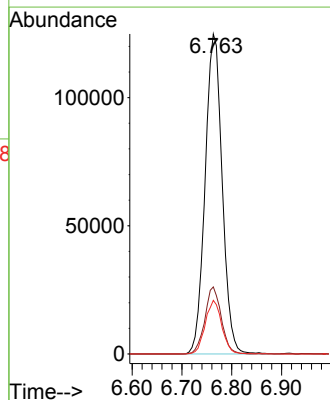
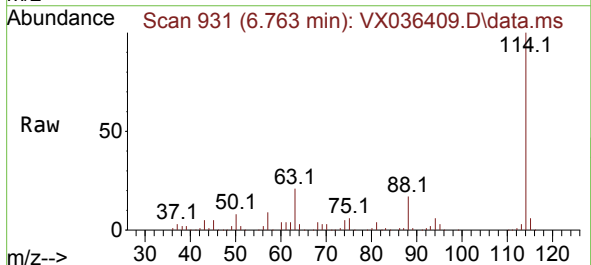
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB153983ZHE#10

Tgt Ion: 65 Resp: 111906  
 Ion Ratio Lower Upper  
 65 100  
 67 52.4 0.0 100.2

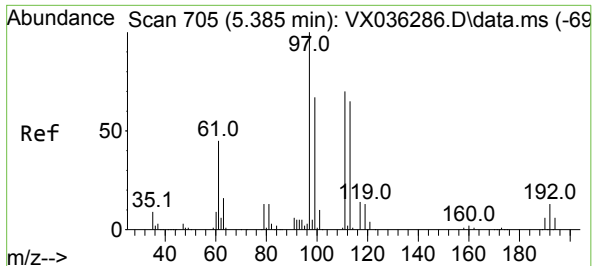


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.763 min Scan# 931  
 Delta R.T. -0.000 min  
 Lab File: VX036409.D  
 Acq: 05 Jul 2023 17:18

Tgt Ion:114 Resp: 297049  
 Ion Ratio Lower Upper  
 114 100  
 63 20.9 0.0 45.0  
 88 16.7 0.0 36.6







#35

Dibromofluoromethane

Concen: 46.995 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX036409.D

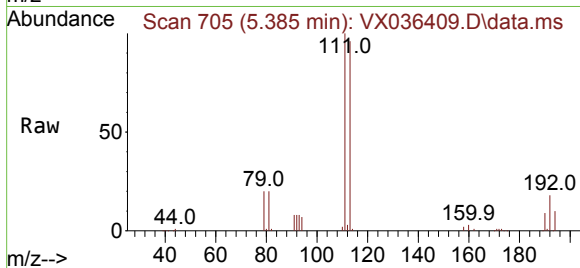
Acq: 05 Jul 2023 17:18

Instrument :

MSVOA\_X

ClientSampleId :

PB153983ZHE#10



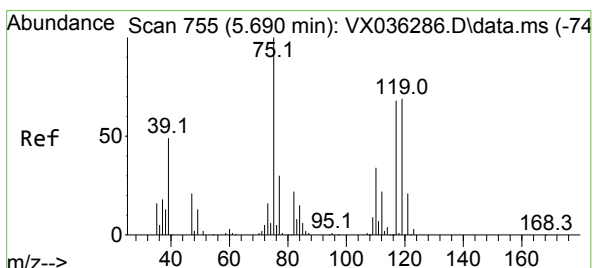
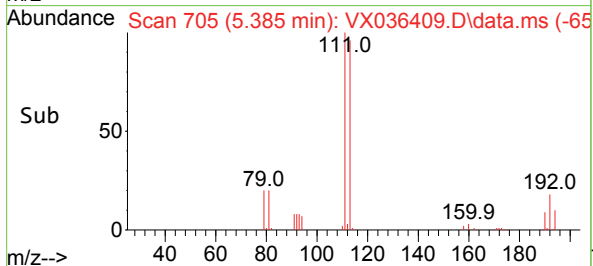
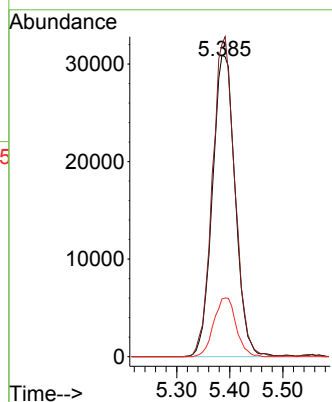
Tgt Ion:113 Resp: 92047

Ion Ratio Lower Upper

113 100

111 104.2 82.9 124.3

192 19.2 13.3 19.9



#36

1,1-Dichloropropene

Concen: 4.694 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.140 min

Lab File: VX036409.D

Acq: 05 Jul 2023 17:18

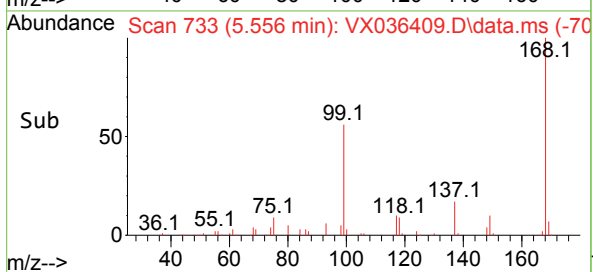
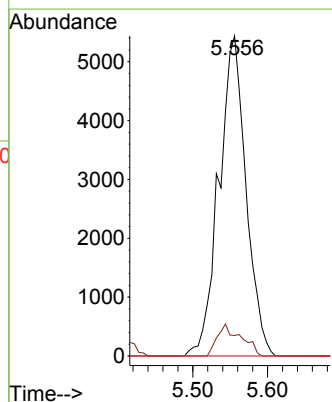
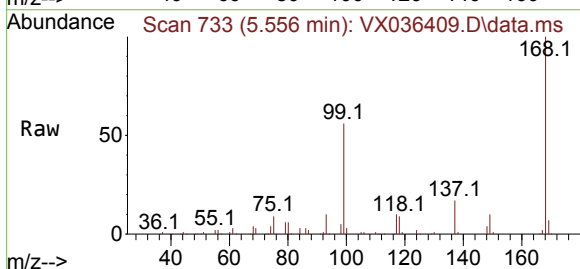
Tgt Ion: 75 Resp: 13705

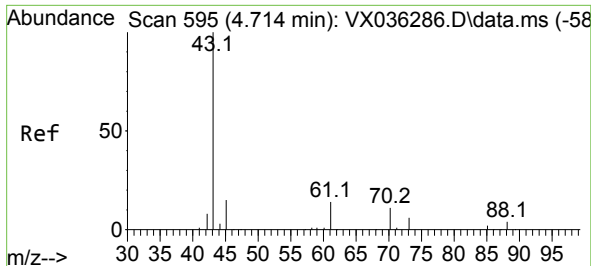
Ion Ratio Lower Upper

75 100

110 8.7 17.0 50.9#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 18.128 ug/l

RT: 4.721 min Scan# 595

Delta R.T. 0.007 min

Lab File: VX036409.D

Acq: 05 Jul 2023 17:18

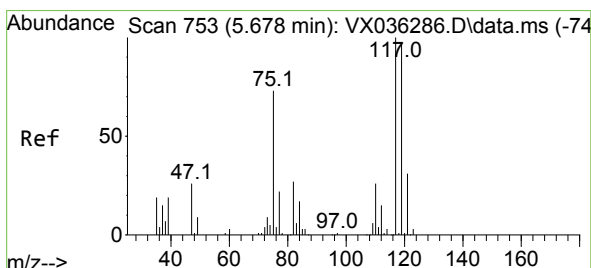
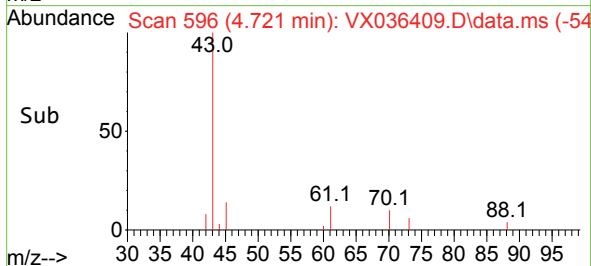
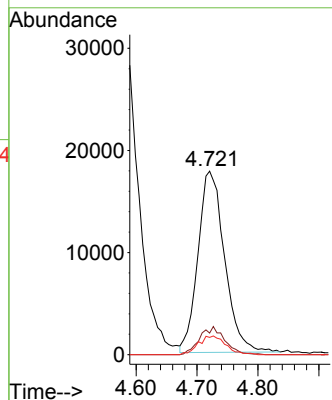
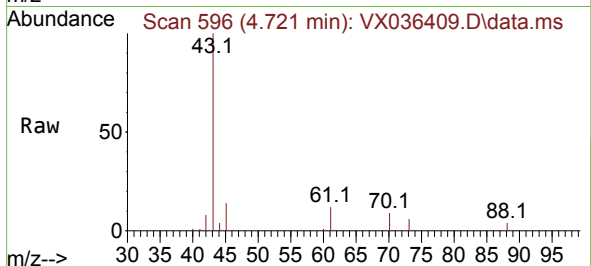
Instrument :

MSVOA\_X

ClientSampleId :

PB153983ZHE#10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 53945 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 14.6  | 10.6  | 16.0  |
| 70       | 10.6  | 8.3   | 12.5  |



#38

Carbon Tetrachloride

Concen: 6.676 ug/l

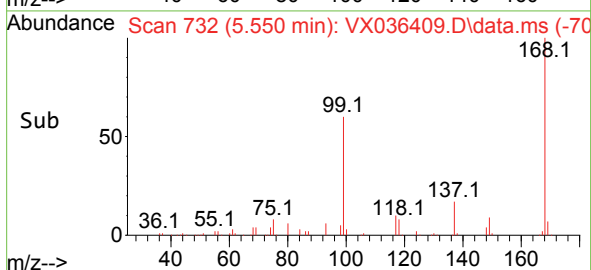
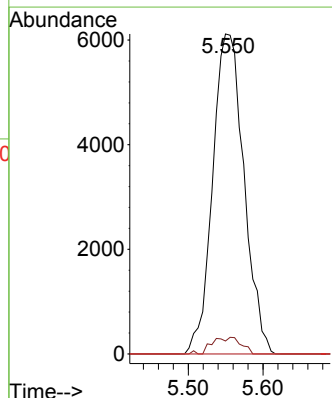
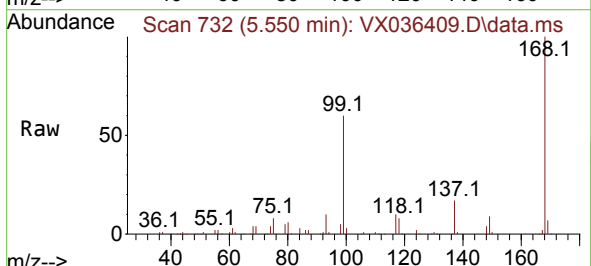
RT: 5.550 min Scan# 732

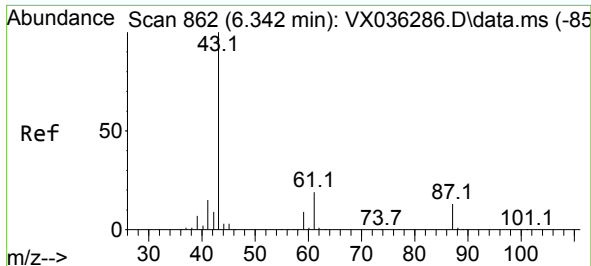
Delta R.T. -0.128 min

Lab File: VX036409.D

Acq: 05 Jul 2023 17:18

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 17803  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 4.0   | 78.2  | 117.2# |
| 121      | 0.0   | 24.4  | 36.6#  |

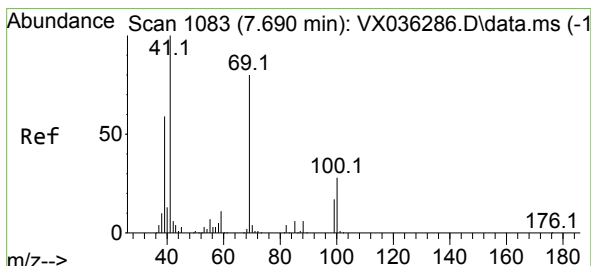
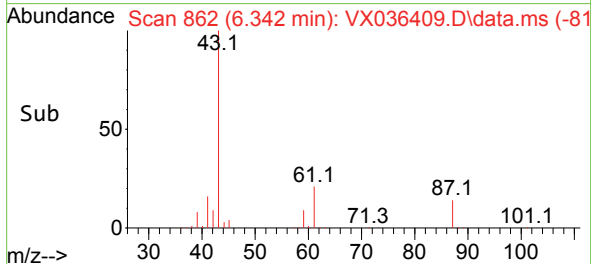
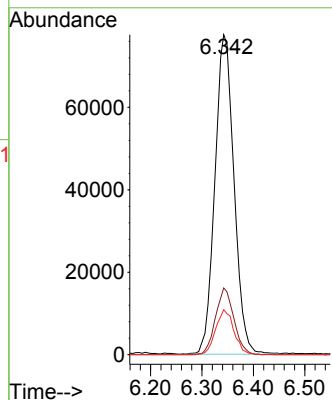
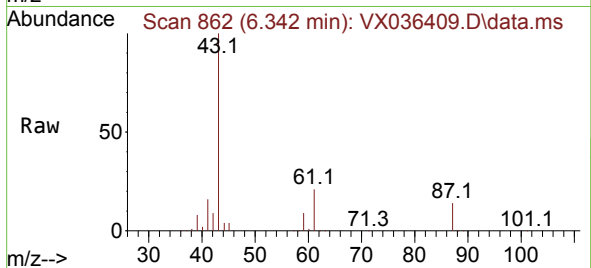




#43  
Isopropyl Acetate  
Concen: 42.195 ug/l  
RT: 6.342 min Scan# 80  
Delta R.T. 0.000 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

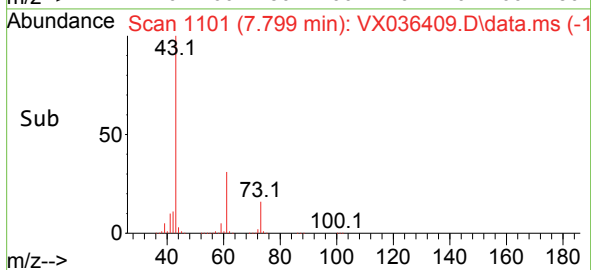
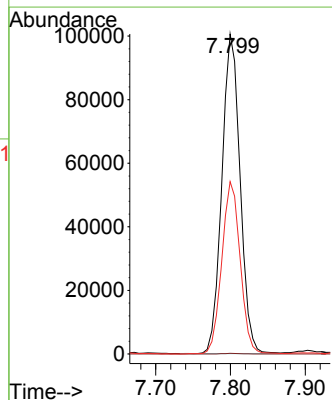
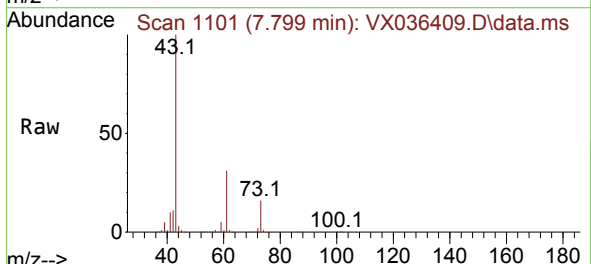
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153983ZHE#10

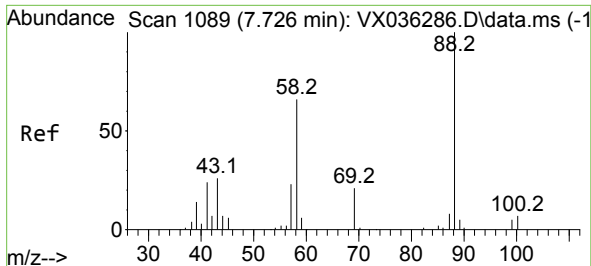
Tgt Ion: 43 Resp: 200301  
Ion Ratio Lower Upper  
43 100  
61 20.0 15.2 22.8  
87 13.5 9.8 14.6



#48  
Methyl methacrylate  
Concen: 72.034 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.110 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

Tgt Ion: 41 Resp: 170499  
Ion Ratio Lower Upper  
41 100  
69 0.2 59.2 88.8#  
39 54.4 47.7 71.5

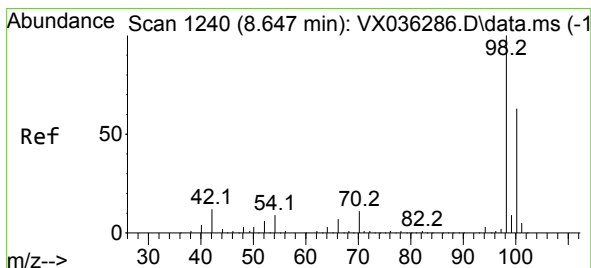
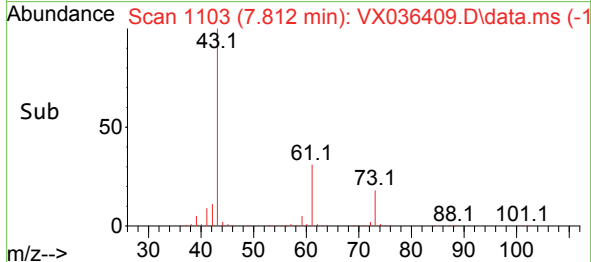
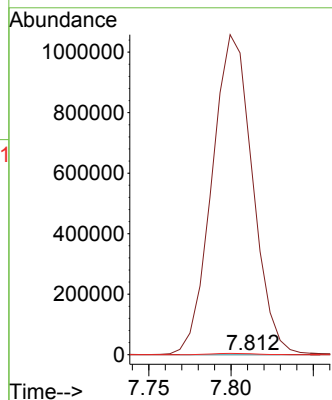
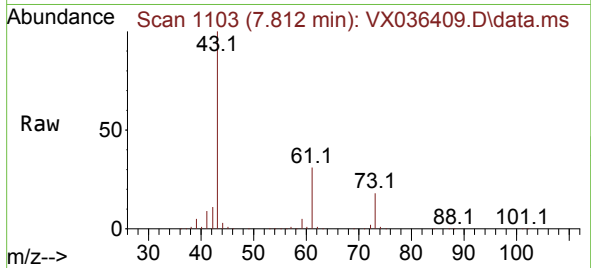




#49  
1,4-Dioxane  
Concen: 6.365 ug/l  
RT: 7.812 min Scan# 1103  
Delta R.T. 0.080 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

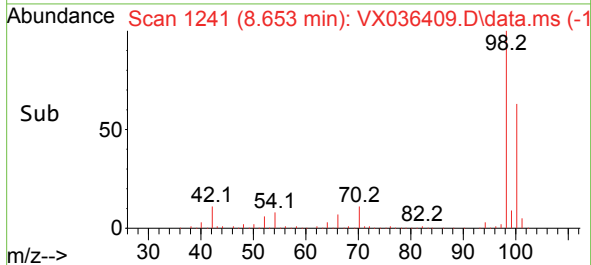
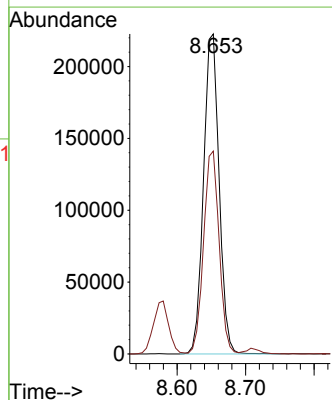
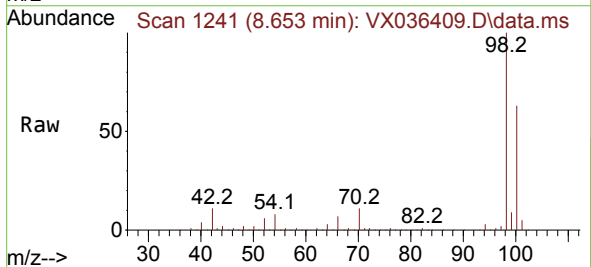
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153983ZHE#10

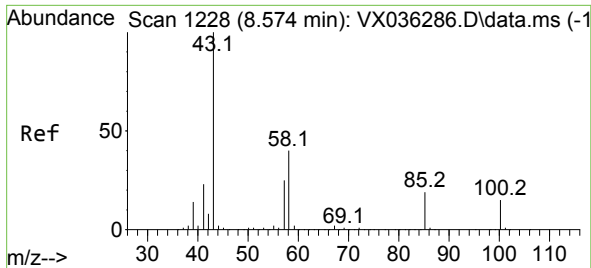
Tgt Ion: 88 Resp: 334  
Ion Ratio Lower Upper  
88 100  
43 546843.7 0.0 0.0#  
58 2304.8 60.1 90.1#



#50  
Toluene-d8  
Concen: 48.215 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.007 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

Tgt Ion: 98 Resp: 352717  
Ion Ratio Lower Upper  
98 100  
100 63.4 53.1 79.7

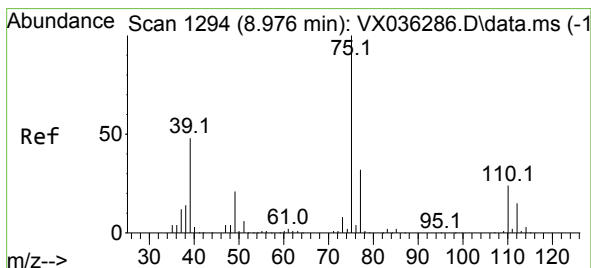
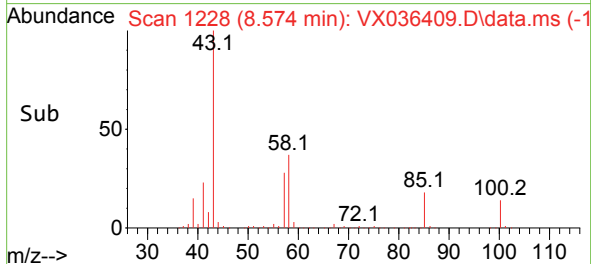
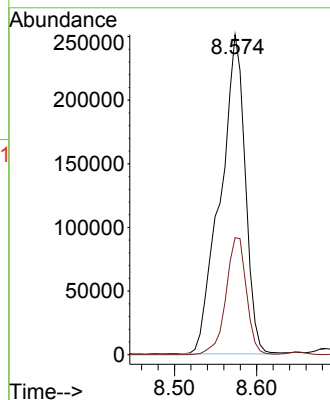
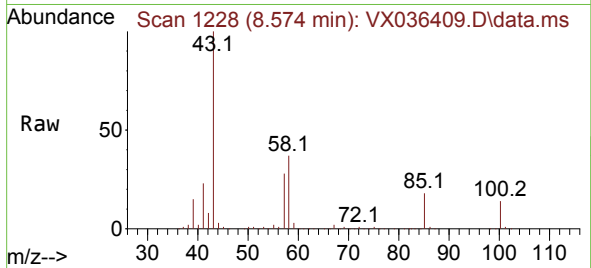




#51  
4-Methyl-2-Pentanone  
Concen: 172.328 ug/l  
RT: 8.574 min Scan# 11  
Delta R.T. 0.001 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

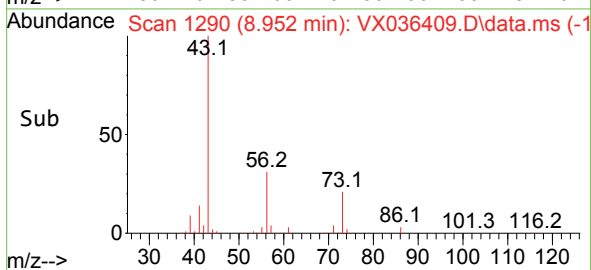
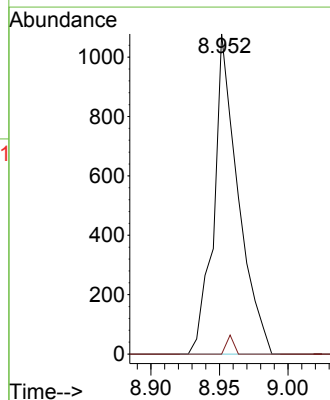
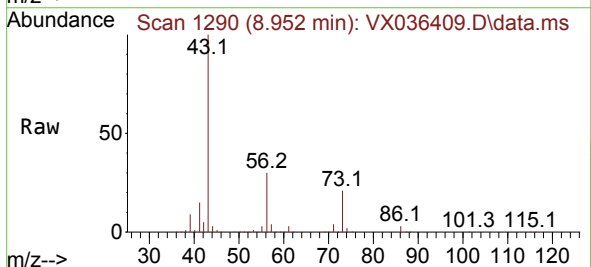
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153983ZHE#10

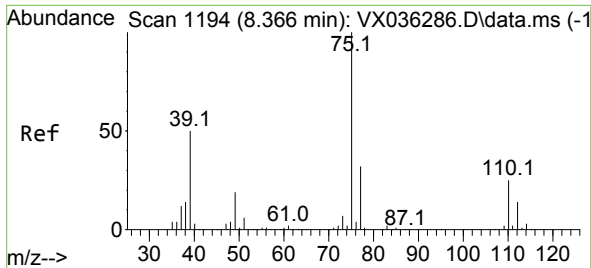
Tgt Ion: 43 Resp: 527045  
Ion Ratio Lower Upper  
43 100  
58 30.2 30.4 45.6#



#53  
t-1,3-Dichloropropene  
Concen: 0.466 ug/l  
RT: 8.952 min Scan# 1290  
Delta R.T. -0.024 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

Tgt Ion: 75 Resp: 1331  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.7 38.5#

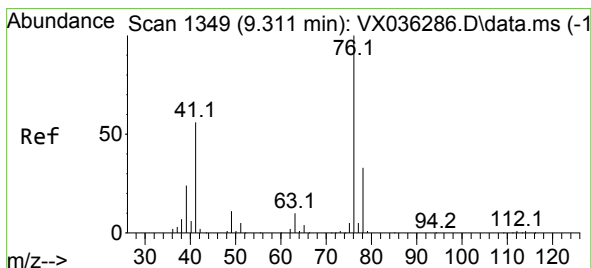
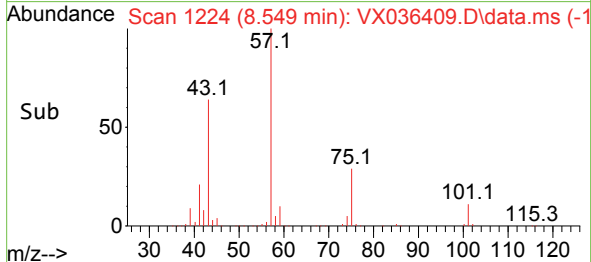
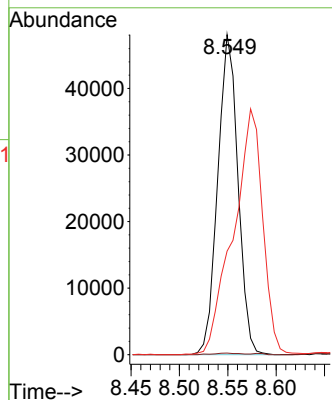
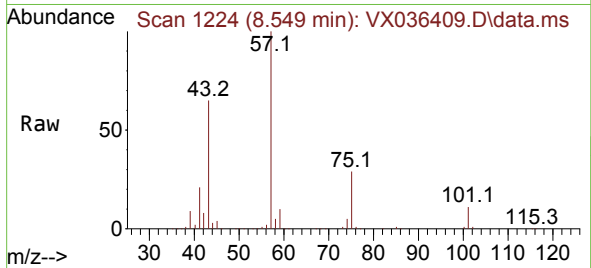




#54  
cis-1,3-Dichloropropene  
Concen: 21.583 ug/l  
RT: 8.549 min Scan# 1194  
Delta R.T. 0.183 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

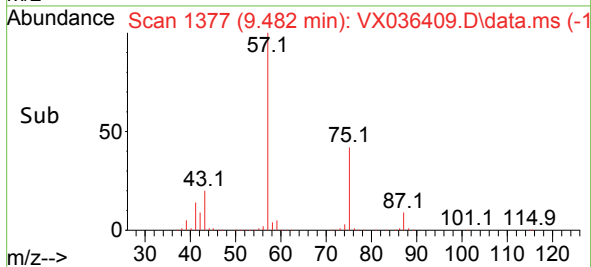
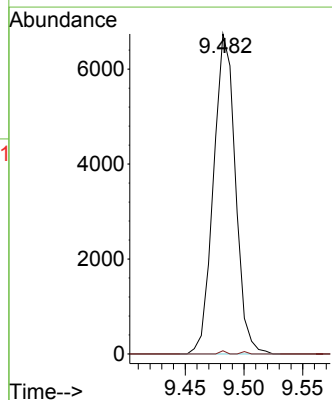
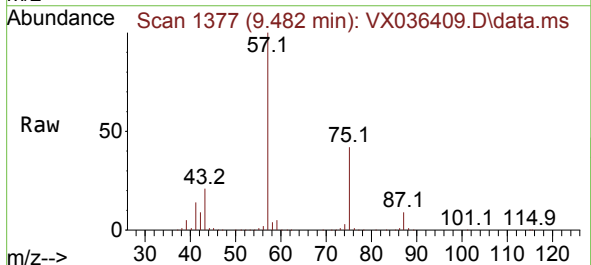
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153983ZHE#10

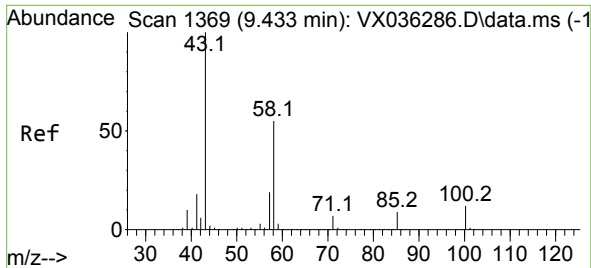
Tgt Ion: 75 Resp: 69687  
Ion Ratio Lower Upper  
75 100  
77 0.5 25.3 37.9#  
39 32.3 46.7 70.1#



#57  
1,3-Dichloropropane  
Concen: 2.378 ug/l  
RT: 9.482 min Scan# 1377  
Delta R.T. 0.177 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

Tgt Ion: 76 Resp: 8756  
Ion Ratio Lower Upper  
76 100  
78 0.3 26.1 39.1#

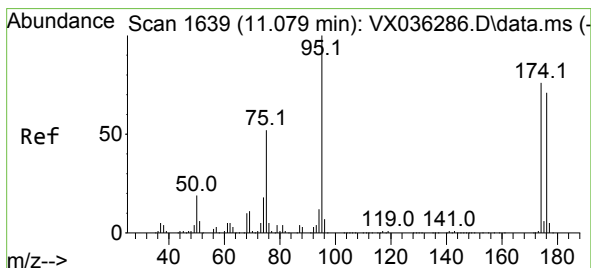
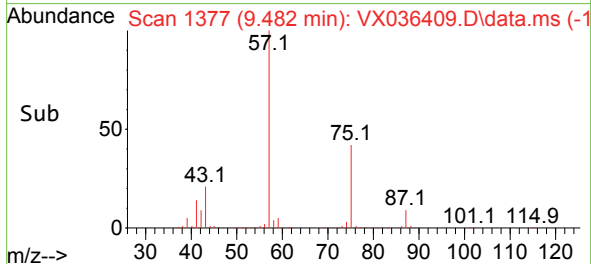
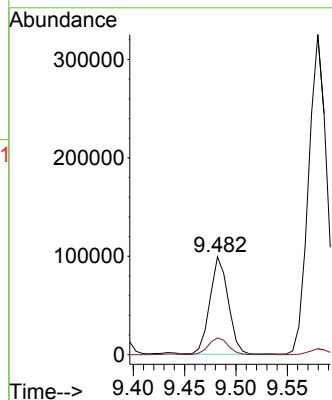
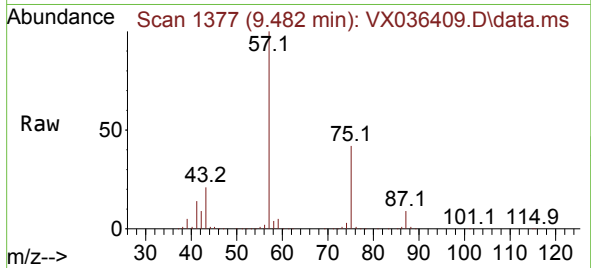




#59  
2-Hexanone  
Concen: 55.332 ug/l  
RT: 9.482 min Scan# 11  
Delta R.T. 0.049 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

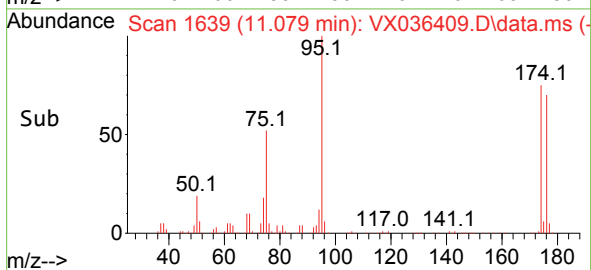
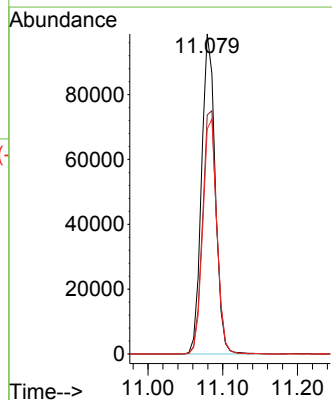
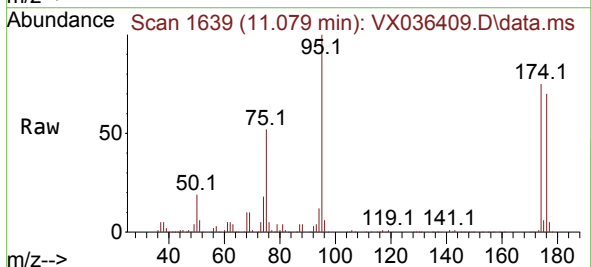
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153983ZHE#10

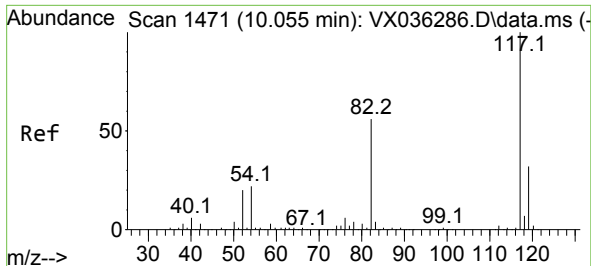
Tgt Ion: 43 Resp: 123578  
Ion Ratio Lower Upper  
43 100  
58 18.6 26.2 78.5#



#62  
4-Bromofluorobenzene  
Concen: 48.694 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

Tgt Ion: 95 Resp: 125474  
Ion Ratio Lower Upper  
95 100  
174 78.7 0.0 135.6  
176 75.4 0.0 131.0

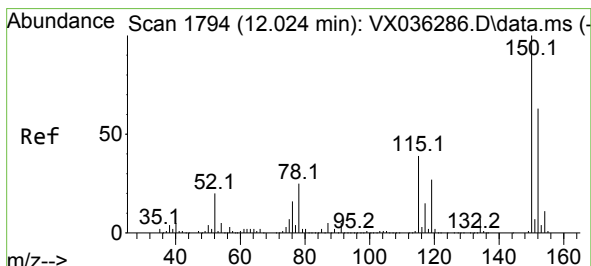
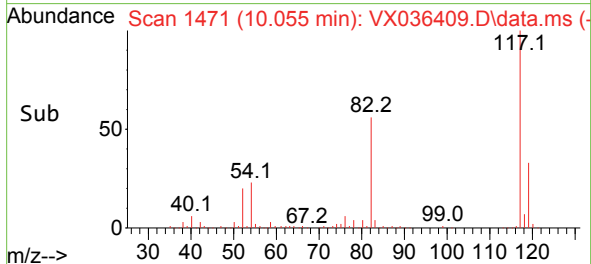
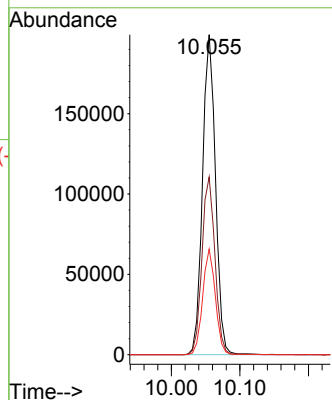
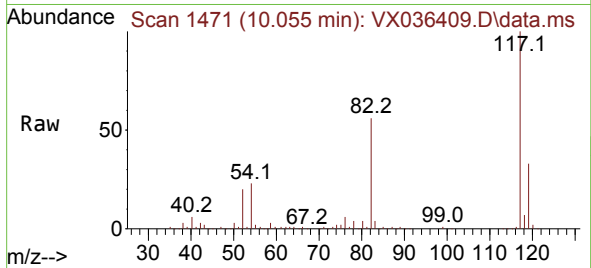




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

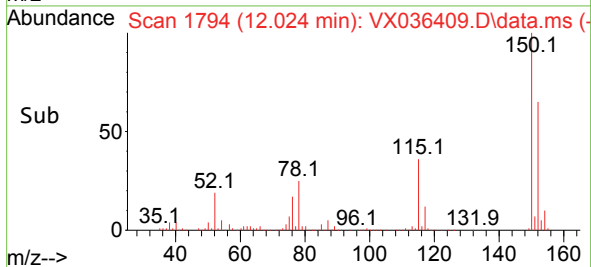
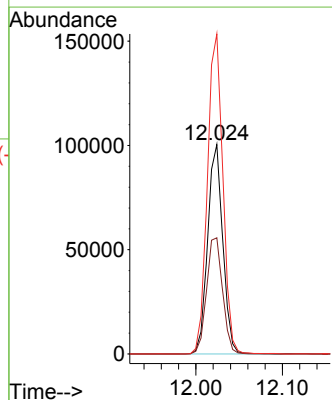
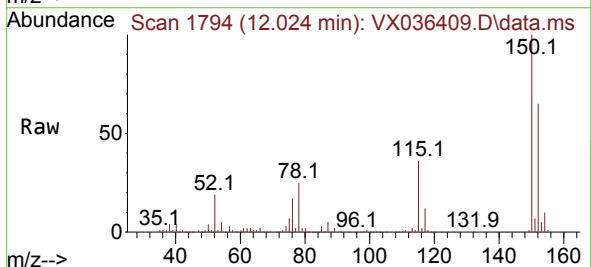
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153983ZHE#10

Tgt Ion:117 Resp: 262297  
Ion Ratio Lower Upper  
117 100  
82 55.6 46.2 69.4  
119 33.0 25.5 38.3

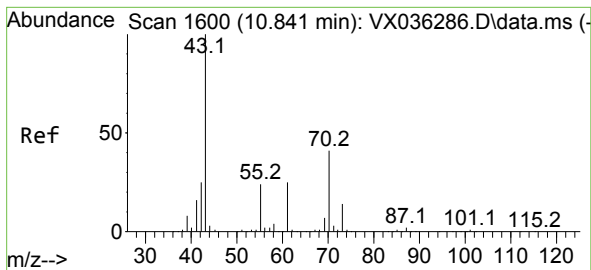


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

Tgt Ion:152 Resp: 121916  
Ion Ratio Lower Upper  
152 100  
115 58.7 43.3 129.9  
150 156.0 0.0 345.0



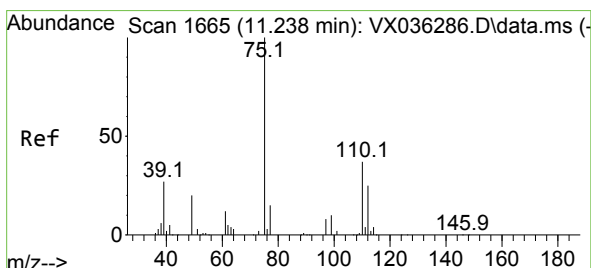
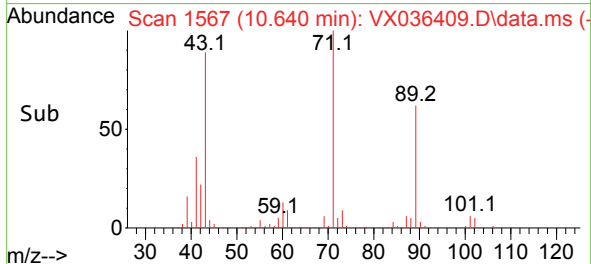
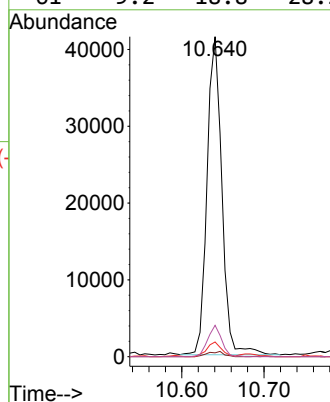
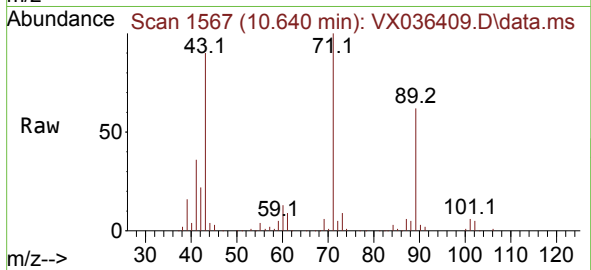




#74  
N-ethyl acetate  
Concen: 14.246 ug/l  
RT: 10.640 min Scan# 1639  
Delta R.T. -0.201 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

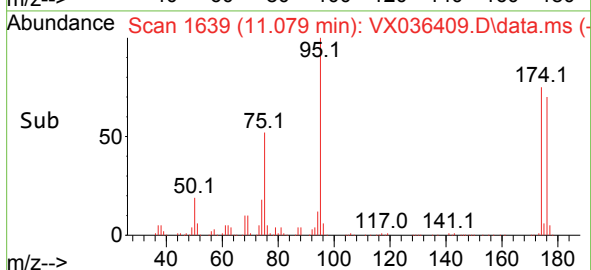
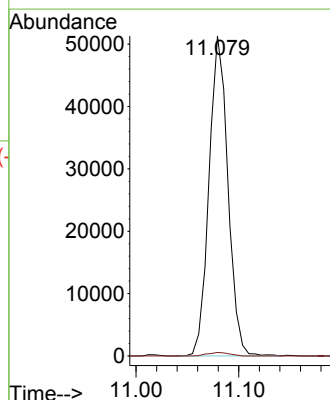
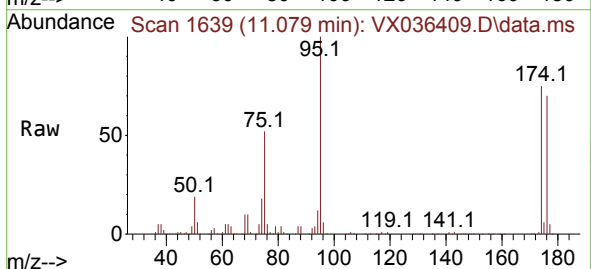
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153983ZHE#10

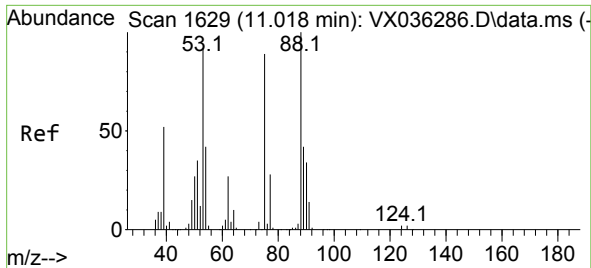
|             |                |
|-------------|----------------|
| Tgt Ion: 43 | Resp: 51771    |
| Ion Ratio   | Lower Upper    |
| 43          | 100            |
| 70          | 1.8 32.9 49.3# |
| 55          | 4.6 19.3 28.9# |
| 61          | 9.2 18.8 28.2# |



#76  
1,2,3-Trichloropropane  
Concen: 25.268 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

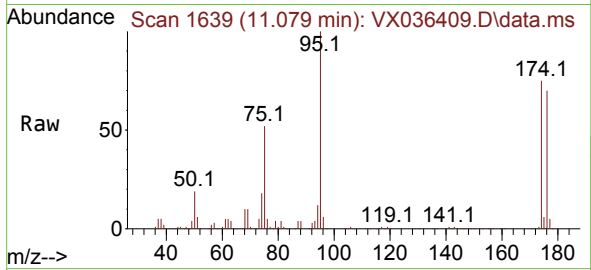
|             |                |
|-------------|----------------|
| Tgt Ion: 75 | Resp: 65710    |
| Ion Ratio   | Lower Upper    |
| 75          | 100            |
| 77          | 1.3 19.1 57.5# |





#81  
trans-1,4-Dichloro-2-butene  
Concen: 82.368 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX036409.D  
Acq: 05 Jul 2023 17:18

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153983ZHE#10



Tgt Ion: 75 Resp: 65710  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#

