

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX102523\  
 Data File : VX038503.D  
 Acq On : 26 Oct 2023 07:07  
 Operator : JC/MD  
 Sample : 05049-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Oct 26 08:39:47 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 05 15:27:13 2023  
 Response via : Initial Calibration

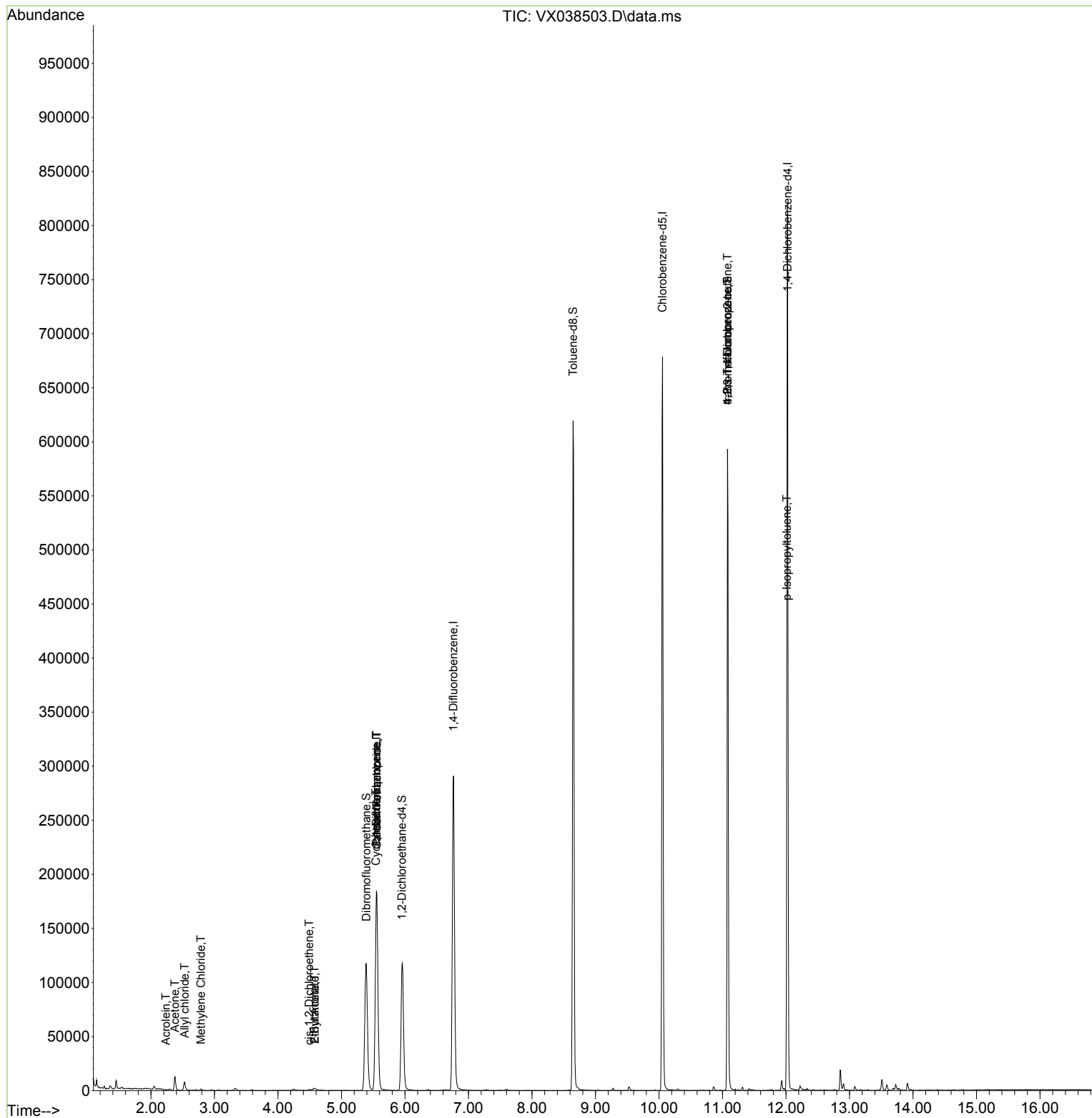
| Compound                      | R.T.   | QIon           | Response | Conc      | Units    | Dev(Min) |
|-------------------------------|--------|----------------|----------|-----------|----------|----------|
| -----                         |        |                |          |           |          |          |
| Internal Standards            |        |                |          |           |          |          |
| 1) Pentafluorobenzene         | 5.550  | 168            | 183843   | 50.000    | ug/l     | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.763  | 114            | 314385   | 50.000    | ug/l     | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117            | 321802   | 50.000    | ug/l     | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152            | 178222   | 50.000    | ug/l     | 0.00     |
| System Monitoring Compounds   |        |                |          |           |          |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65             | 113669   | 38.441    | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 78 - 117 | Recovery | =         | 76.880%# |          |
| 35) Dibromofluoromethane      | 5.391  | 113            | 103583   | 45.725    | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 75 - 124 | Recovery | =         | 91.460%  |          |
| 50) Toluene-d8                | 8.647  | 98             | 381937   | 44.122    | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 92 - 112 | Recovery | =         | 88.240%# |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95             | 151851   | 46.271    | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 83 - 123 | Recovery | =         | 92.540%  |          |
| Target Compounds              |        |                |          |           |          |          |
|                               |        |                |          |           |          | Qvalue   |
| 5) Bromomethane               | 1.636  | 94             | 28       | Below Cal | #        | 3        |
| 6) Chloroethane               | 1.691  | 64             | 101      | Below Cal | #        | 43       |
| 11) Tert butyl alcohol        | 2.959  | 59             | 439      | Below Cal | #        | 78       |
| 13) Acrolein                  | 2.233  | 56             | 158      | 0.376     | ug/l     | 89       |
| 14) Allyl chloride            | 2.532  | 41             | 801      | 0.266     | ug/l     | # 39     |
| 16) Acetone                   | 2.380  | 43             | 13165    | 10.668    | ug/l     | 92       |
| 20) Methylene Chloride        | 2.788  | 84             | 624      | 0.269     | ug/l     | # 66     |
| 25) 2-Butanone                | 4.574  | 43             | 2670     | 1.341     | ug/l     | 94       |
| 27) cis-1,2-Dichloroethene    | 4.489  | 96             | 602      | 0.243     | ug/l     | 71       |
| 31) Cyclohexane               | 5.544  | 56             | 3453     | 1.078     | ug/l     | # 5      |
| 36) 1,1-Dichloropropene       | 5.550  | 75             | 13225    | 4.234     | ug/l     | # 52     |
| 37) Ethyl Acetate             | 4.574  | 43             | 2670     | 0.720     | ug/l     | # 69     |
| 38) Carbon Tetrachloride      | 5.556  | 117            | 17670    | 5.750     | ug/l     | # 15     |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75             | 78212    | 19.304    | ug/l     | # 38     |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75             | 78212    | 55.852    | ug/l     | # 5      |
| 86) p-Isopropyltoluene        | 12.012 | 119            | 2530     | 0.235     | ug/l     | # 73     |
| -----                         |        |                |          |           |          |          |

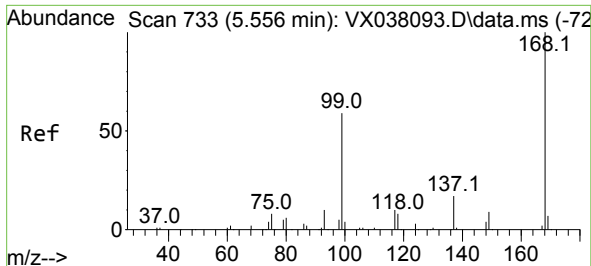
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX102523\  
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Operator : JC/MD  
Sample : 05049-01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 44 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Oct 26 08:39:47 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 05 15:27:13 2023  
Response via : Initial Calibration

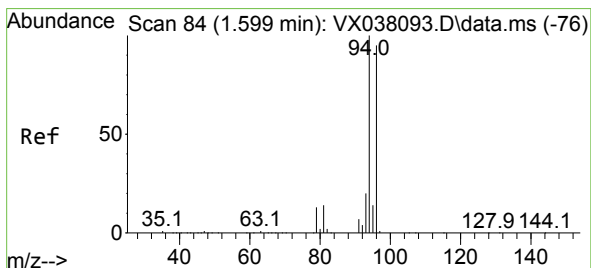
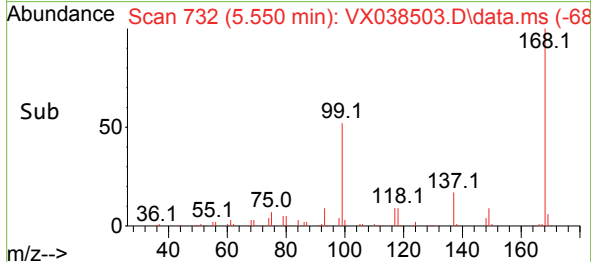
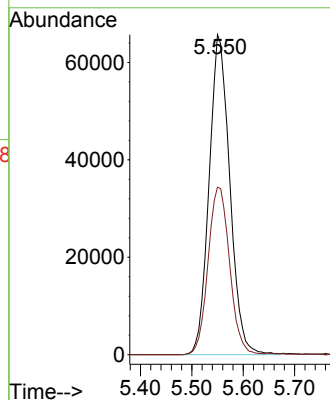
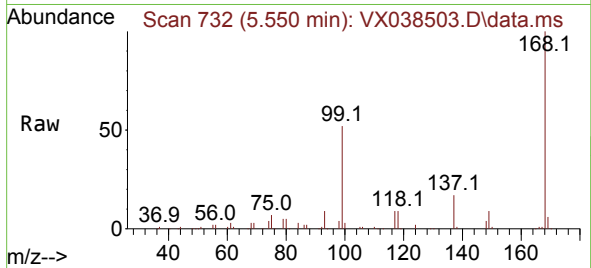




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX038503.D  
Acq: 26 Oct 2023 07:07

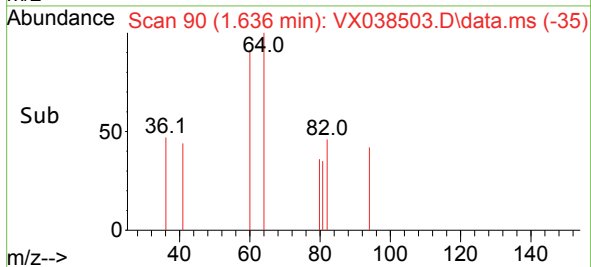
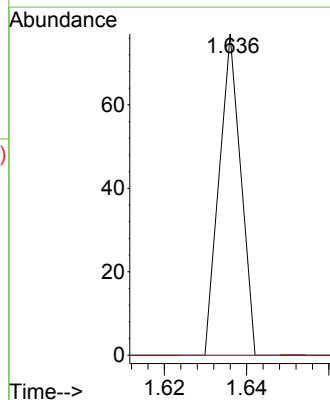
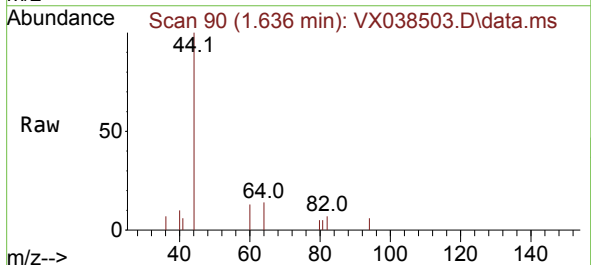
Instrument :  
MSVOA\_X  
ClientSampleId :

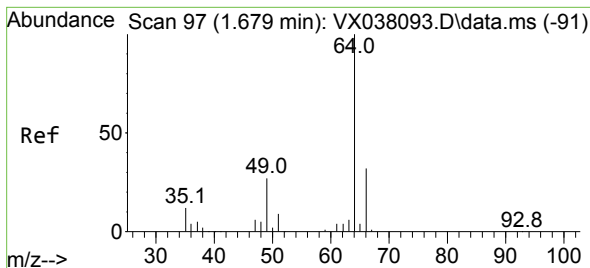
Tgt Ion:168 Resp: 183843  
Ion Ratio Lower Upper  
168 100  
99 52.4 56.6 85.0#



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.636 min Scan# 90  
Delta R.T. 0.037 min  
Lab File: VX038503.D  
Acq: 26 Oct 2023 07:07

Tgt Ion: 94 Resp: 28  
Ion Ratio Lower Upper  
94 100  
96 0.0 74.6 111.8#





#6

Chloroethane

Concen: Below Cal

RT: 1.691 min Scan# 91

Delta R.T. 0.012 min

Lab File: VX038503.D

Acq: 26 Oct 2023 07:07

Instrument :

MSVOA\_X

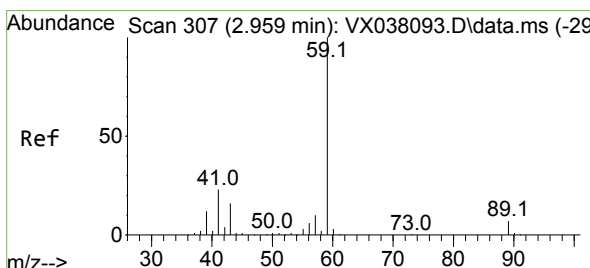
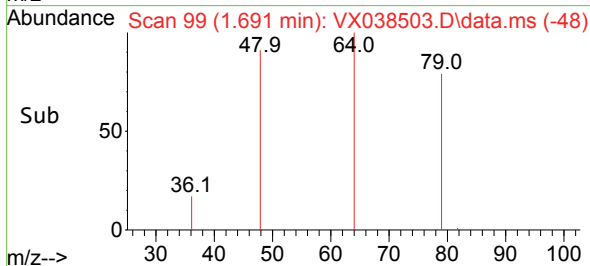
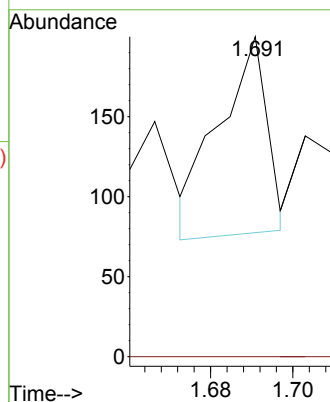
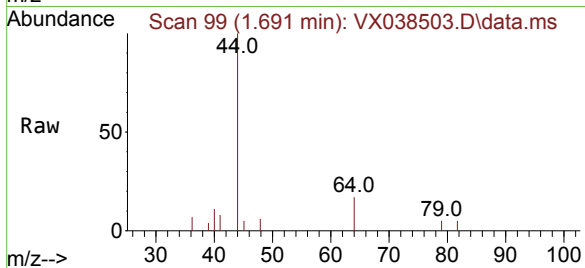
ClientSampleId :

Tgt Ion: 64 Resp: 101

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.959 min Scan# 307

Delta R.T. -0.000 min

Lab File: VX038503.D

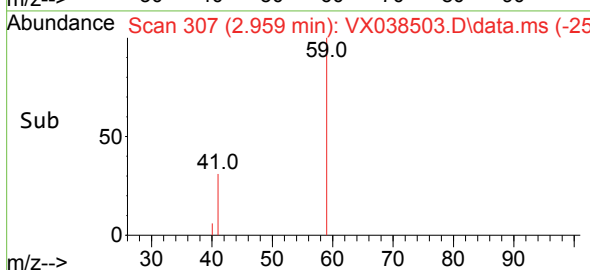
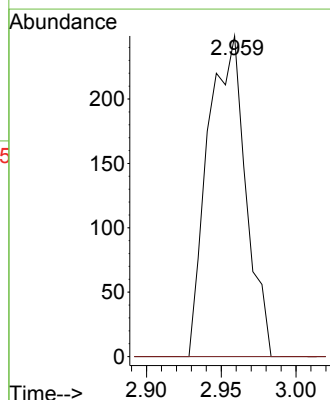
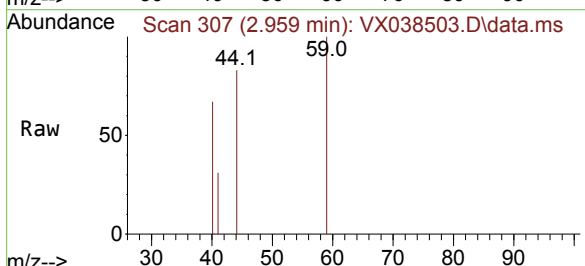
Acq: 26 Oct 2023 07:07

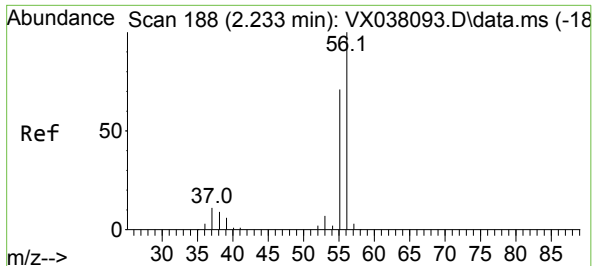
Tgt Ion: 59 Resp: 439

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#





#13

Acrolein

Concen: 0.376 ug/l

RT: 2.233 min Scan# 11

Delta R.T. 0.000 min

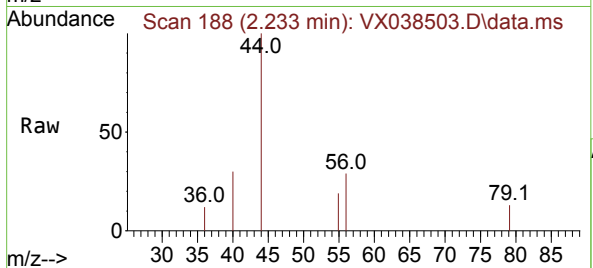
Lab File: VX038503.D

Acq: 26 Oct 2023 07:07

Instrument :

MSVOA\_X

ClientSampleId :

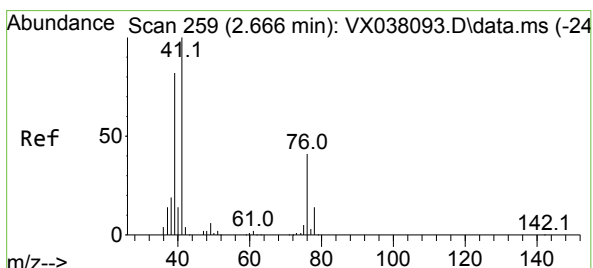
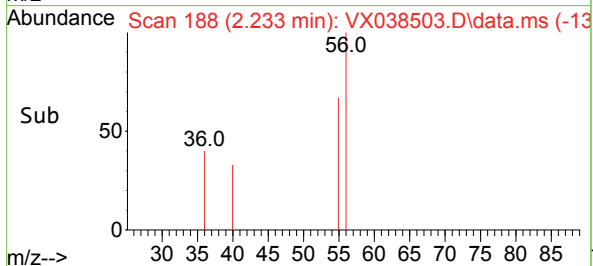
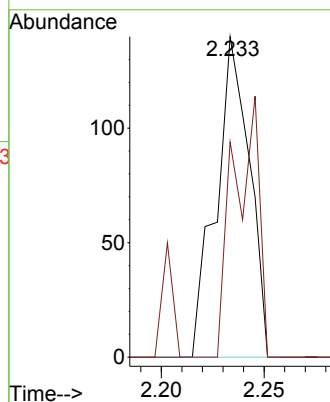


Tgt Ion: 56 Resp: 158

Ion Ratio Lower Upper

56 100

55 62.0 57.1 85.7



#14

Allyl chloride

Concen: 0.266 ug/l

RT: 2.532 min Scan# 237

Delta R.T. -0.128 min

Lab File: VX038503.D

Acq: 26 Oct 2023 07:07

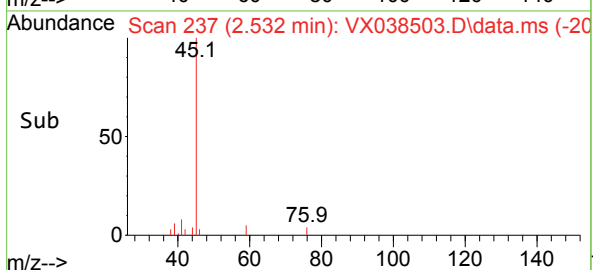
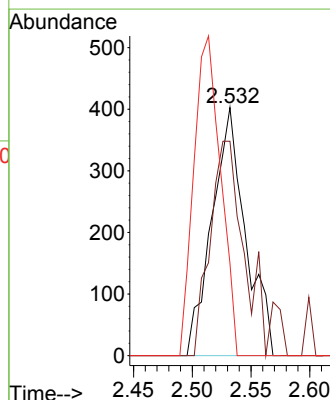
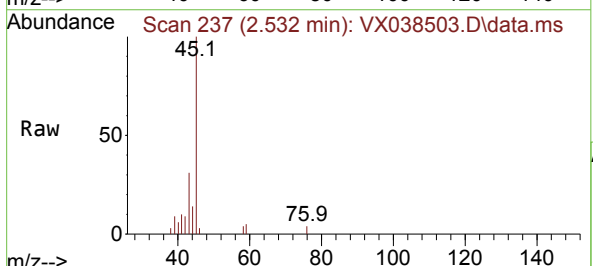
Tgt Ion: 41 Resp: 801

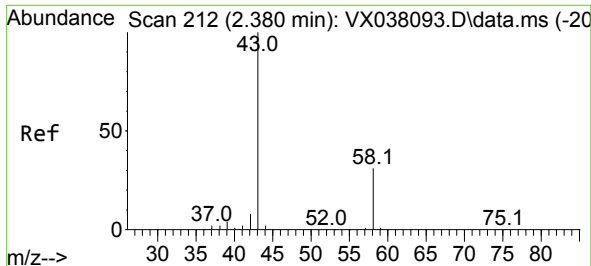
Ion Ratio Lower Upper

41 100

39 93.4 55.8 83.6#

76 103.0 24.3 36.5#





#16

Acetone

Concen: 10.668 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.000 min

Lab File: VX038503.D

Acq: 26 Oct 2023 07:07

Instrument :

MSVOA\_X

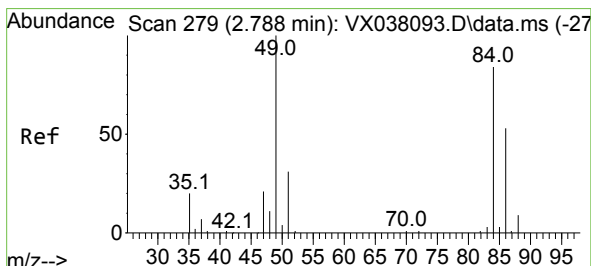
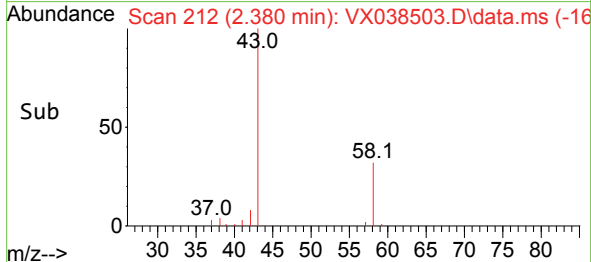
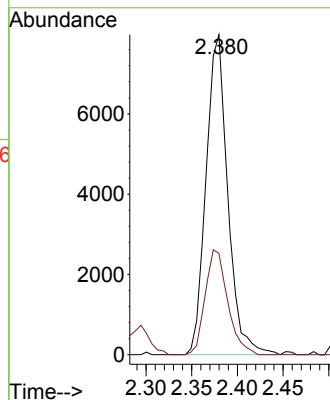
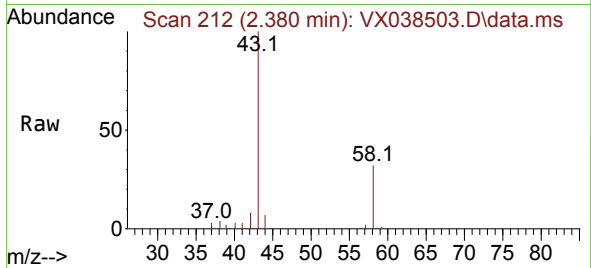
ClientSampleId :

Tgt Ion: 43 Resp: 13165

Ion Ratio Lower Upper

43 100

58 31.7 21.9 32.9



#20

Methylene Chloride

Concen: 0.269 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX038503.D

Acq: 26 Oct 2023 07:07

Tgt Ion: 84 Resp: 624

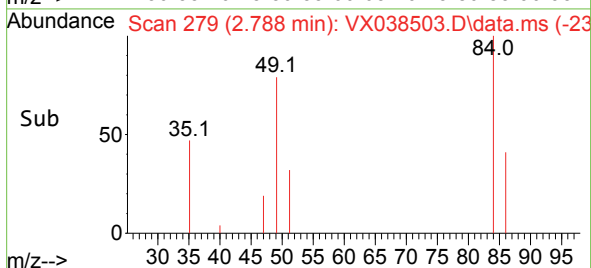
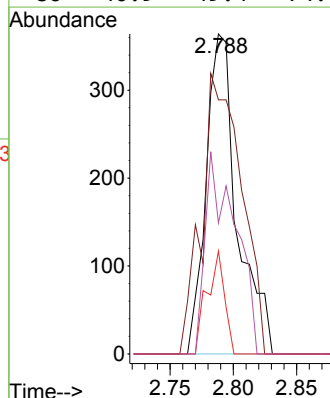
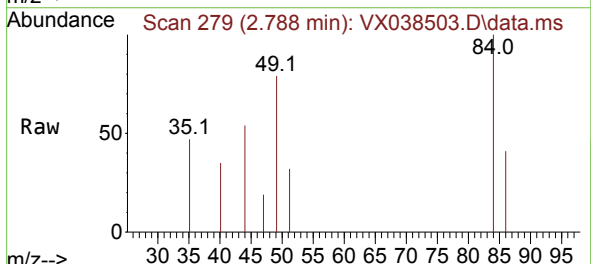
Ion Ratio Lower Upper

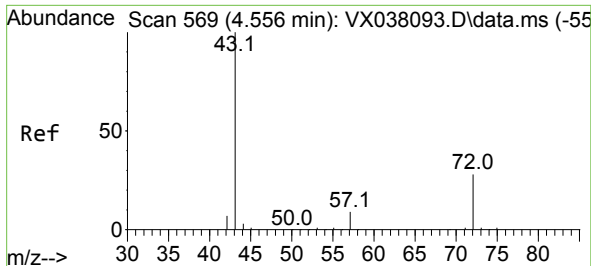
84 100

49 79.4 103.6 155.4#

51 32.1 33.8 50.6#

86 40.9 49.4 74.0#

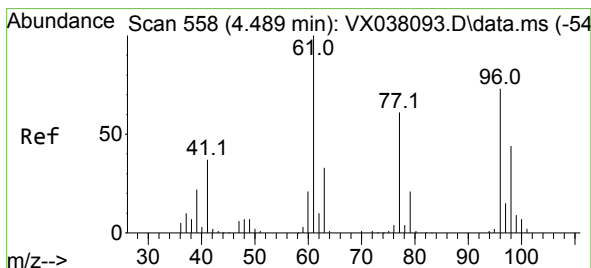
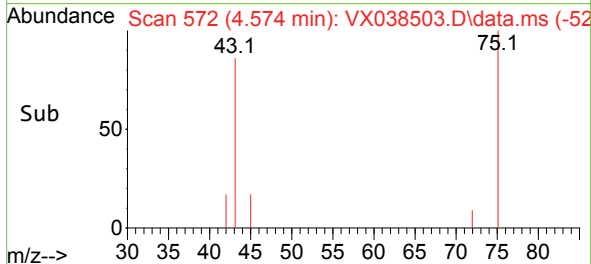
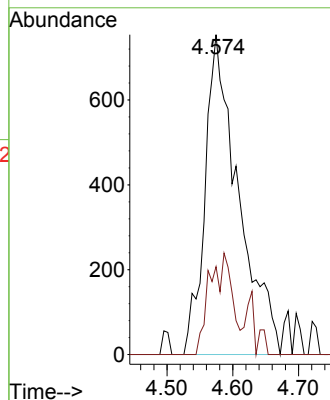
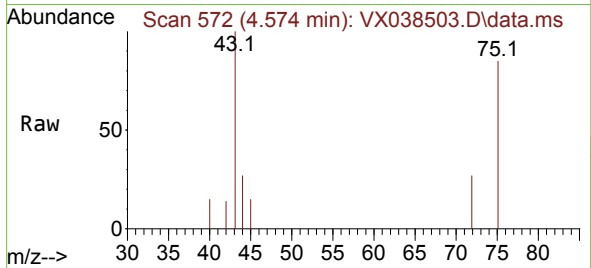




#25  
2-Butanone  
Concen: 1.341 ug/l  
RT: 4.574 min Scan# 51  
Delta R.T. 0.018 min  
Lab File: VX038503.D  
Acq: 26 Oct 2023 07:07

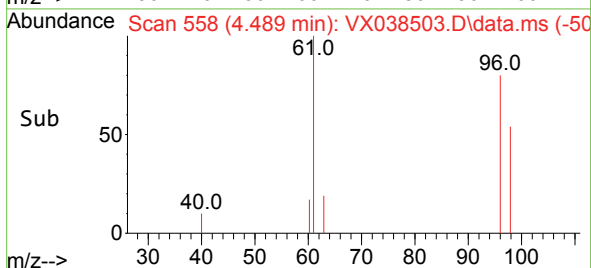
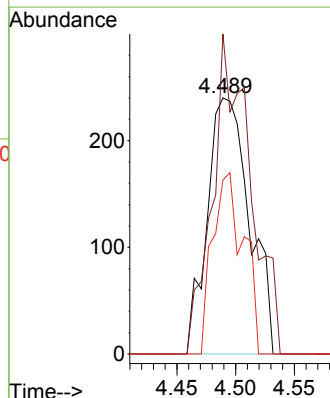
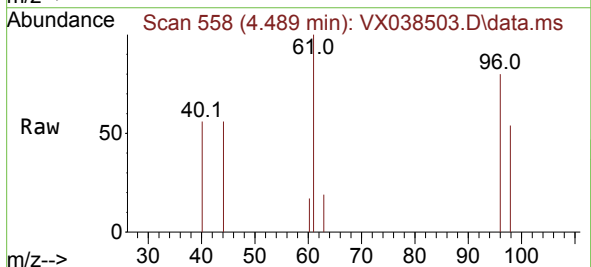
Instrument :  
MSVOA\_X  
ClientSampleId :

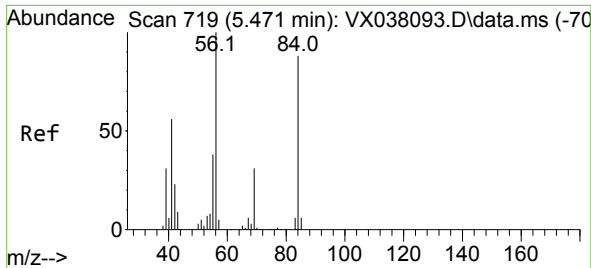
Tgt Ion: 43 Resp: 2670  
Ion Ratio Lower Upper  
43 100  
72 27.5 19.4 29.2



#27  
cis-1,2-Dichloroethene  
Concen: 0.243 ug/l  
RT: 4.489 min Scan# 558  
Delta R.T. 0.000 min  
Lab File: VX038503.D  
Acq: 26 Oct 2023 07:07

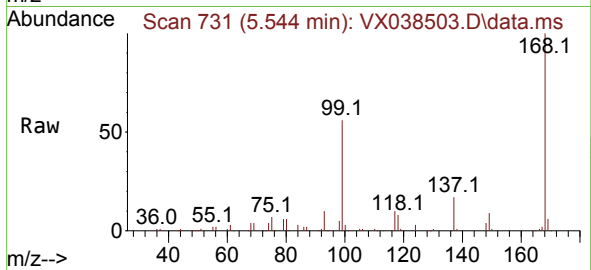
Tgt Ion: 96 Resp: 602  
Ion Ratio Lower Upper  
96 100  
61 111.6 0.0 312.2  
98 52.0 0.0 129.0



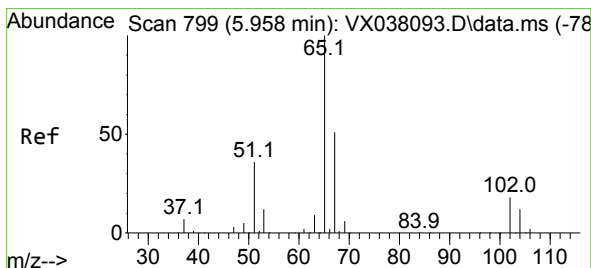
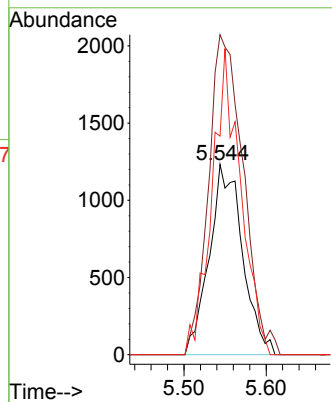
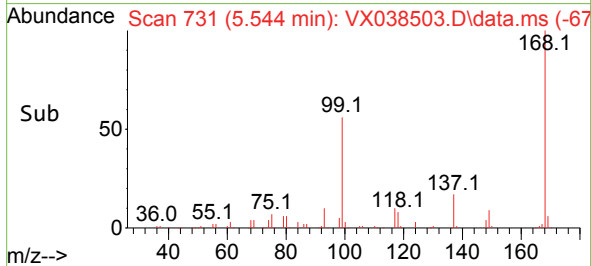


#31  
Cyclohexane  
Concen: 1.078 ug/l  
RT: 5.544 min Scan# 719  
Delta R.T. 0.073 min  
Lab File: VX038503.D  
Acq: 26 Oct 2023 07:07

Instrument :  
MSVOA\_X  
ClientSampleId :

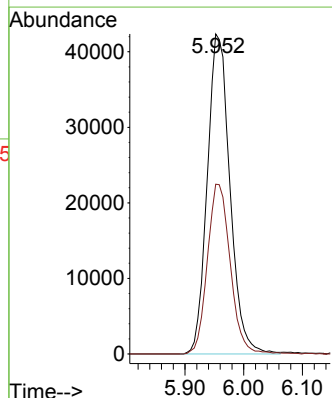
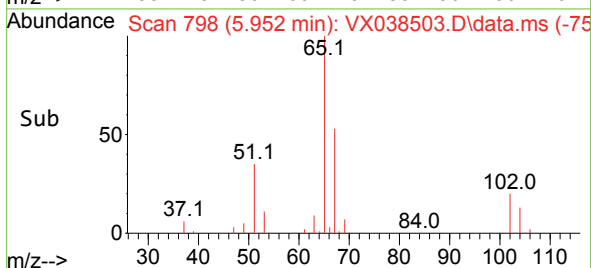
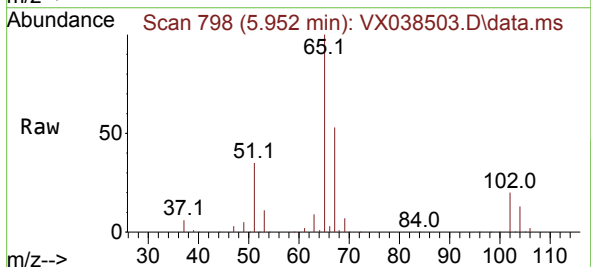


Tgt Ion: 56 Resp: 3453  
Ion Ratio Lower Upper  
56 100  
69 168.3 23.4 35.2#  
84 114.9 65.9 98.9#

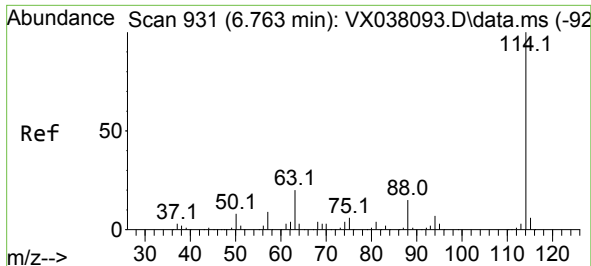


#33  
1,2-Dichloroethane-d4  
Concen: 38.441 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.006 min  
Lab File: VX038503.D  
Acq: 26 Oct 2023 07:07

Tgt Ion: 65 Resp: 113669  
Ion Ratio Lower Upper  
65 100  
67 53.5 0.0 100.2

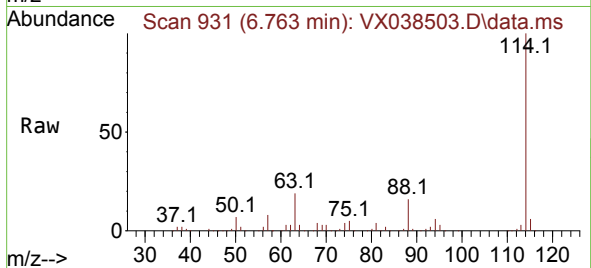




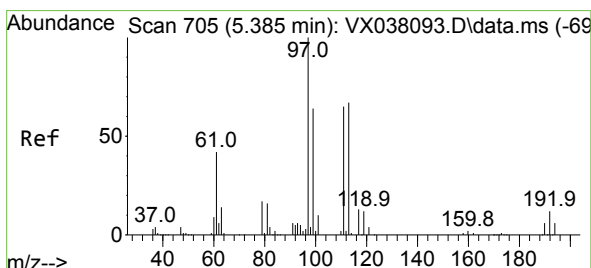
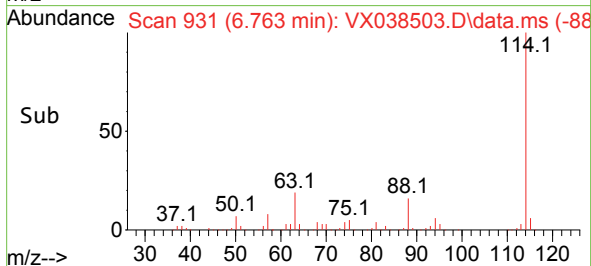
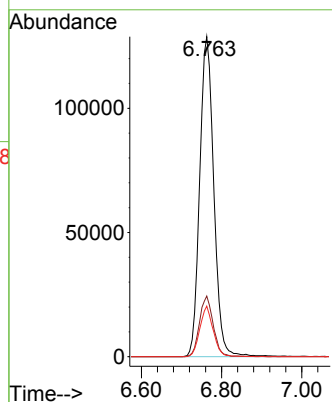


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VX038503.D  
Acq: 26 Oct 2023 07:07

Instrument :  
MSVOA\_X  
ClientSampleId :

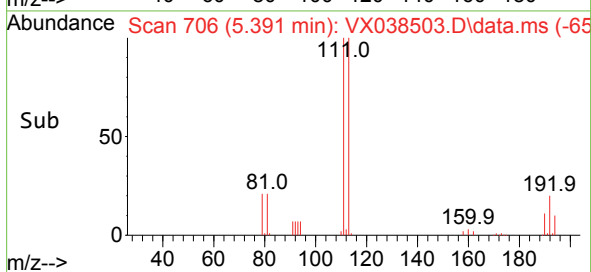
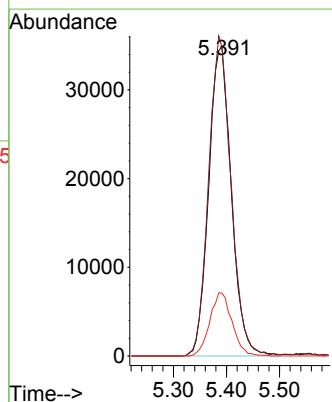
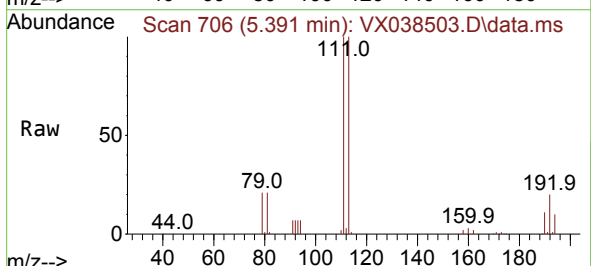


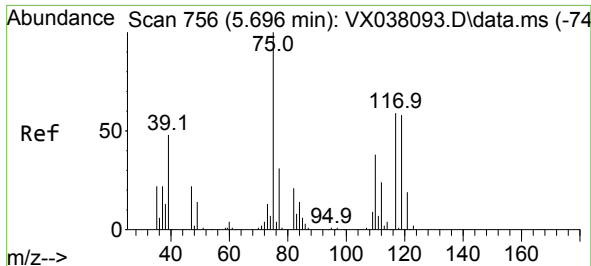
Tgt Ion:114 Resp: 314385  
Ion Ratio Lower Upper  
114 100  
63 19.0 0.0 45.0  
88 15.8 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 45.725 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.006 min  
Lab File: VX038503.D  
Acq: 26 Oct 2023 07:07

Tgt Ion:113 Resp: 103583  
Ion Ratio Lower Upper  
113 100  
111 102.1 82.9 124.3  
192 20.0 13.3 19.9#

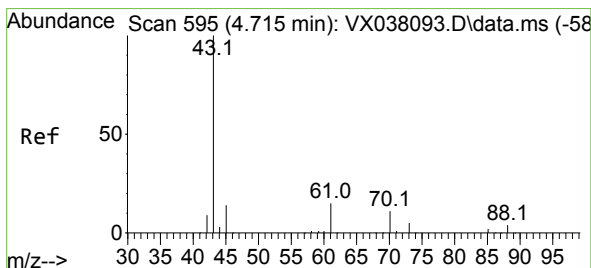
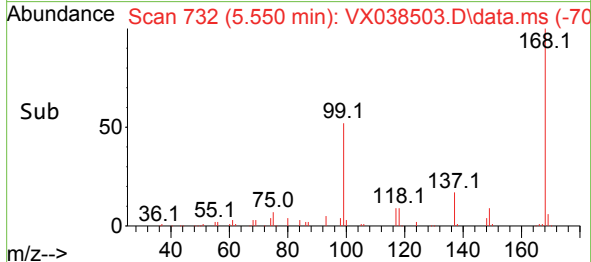
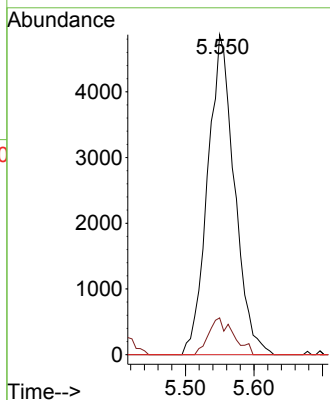
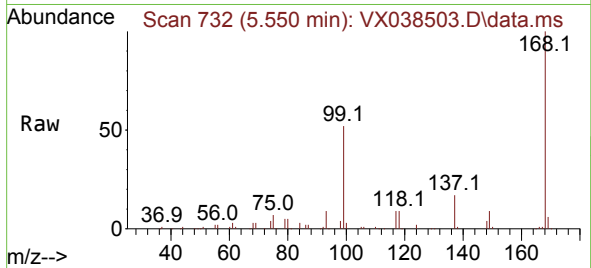




#36  
 1,1-Dichloropropene  
 Concen: 4.234 ug/l  
 RT: 5.550 min Scan# 71  
 Delta R.T. -0.140 min  
 Lab File: VX038503.D  
 Acq: 26 Oct 2023 07:07

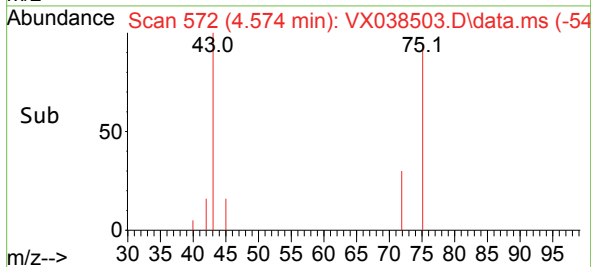
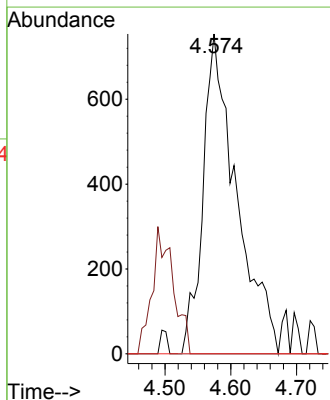
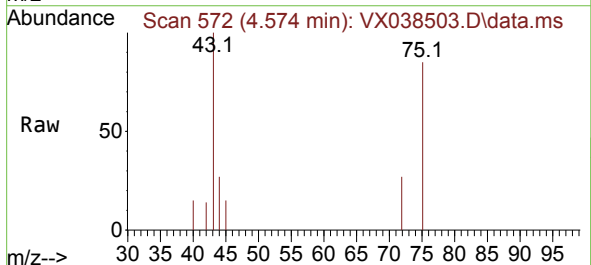
Instrument :  
 MSVOA\_X  
 ClientSampleId :

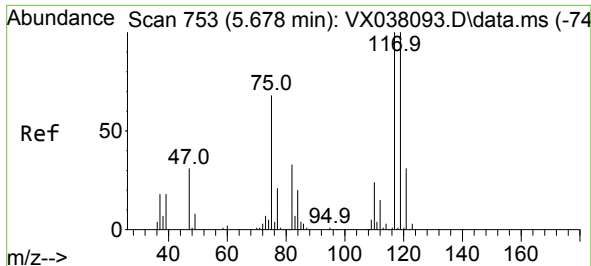
Tgt Ion: 75 Resp: 13225  
 Ion Ratio Lower Upper  
 75 100  
 110 10.6 17.0 50.9#  
 77 0.0 24.7 37.1#



#37  
 Ethyl Acetate  
 Concen: 0.720 ug/l  
 RT: 4.574 min Scan# 572  
 Delta R.T. -0.141 min  
 Lab File: VX038503.D  
 Acq: 26 Oct 2023 07:07

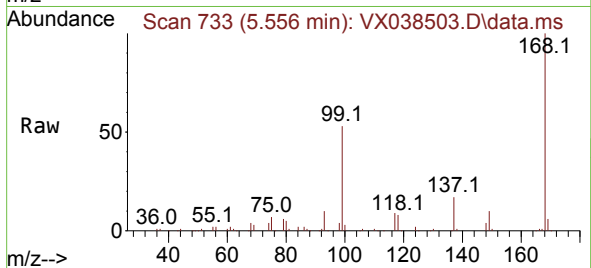
Tgt Ion: 43 Resp: 2670  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 10.6 16.0#  
 70 0.0 8.3 12.5#



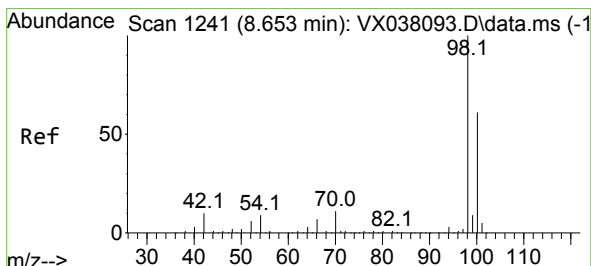
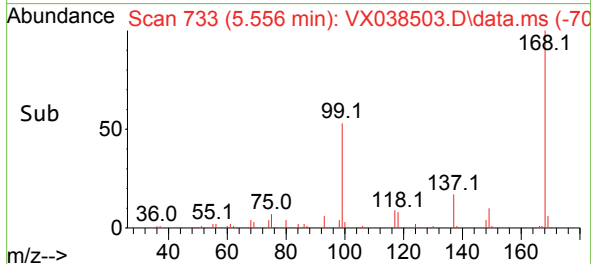
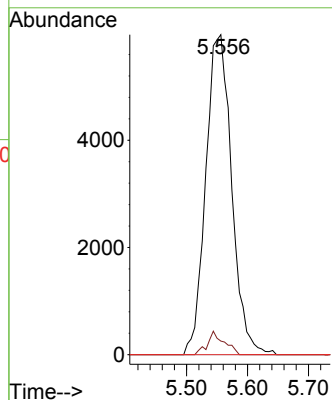


#38  
Carbon Tetrachloride  
Concen: 5.750 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.122 min  
Lab File: VX038503.D  
Acq: 26 Oct 2023 07:07

Instrument :  
MSVOA\_X  
ClientSampleId :

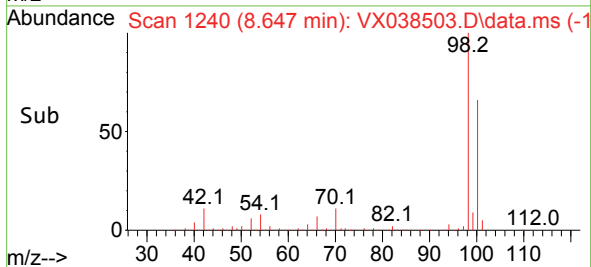
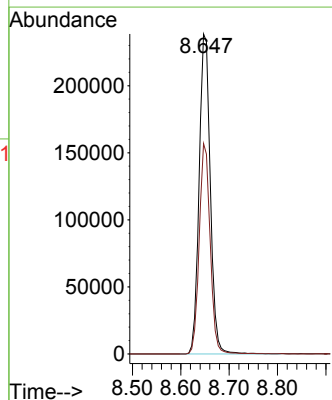
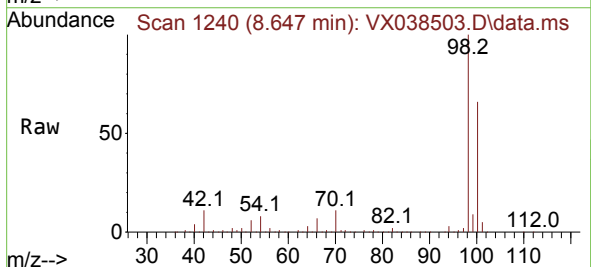


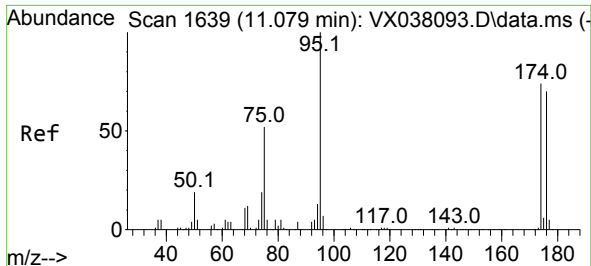
Tgt Ion:117 Resp: 17670  
Ion Ratio Lower Upper  
117 100  
119 4.3 78.2 117.2#  
121 0.0 24.4 36.6#



#50  
Toluene-d8  
Concen: 44.122 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.006 min  
Lab File: VX038503.D  
Acq: 26 Oct 2023 07:07

Tgt Ion: 98 Resp: 381937  
Ion Ratio Lower Upper  
98 100  
100 64.3 53.1 79.7

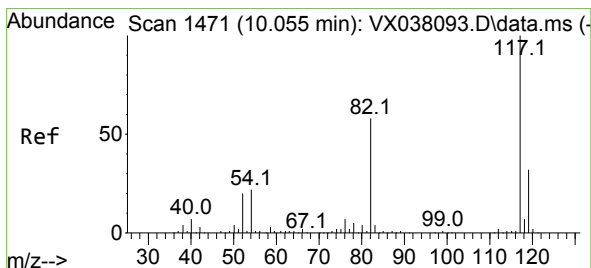
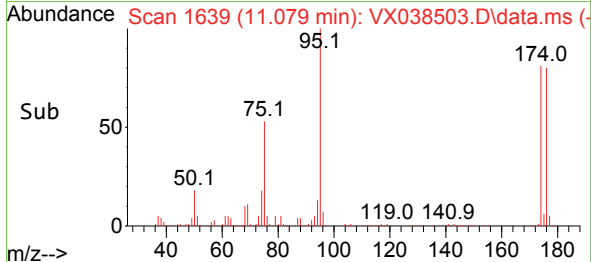
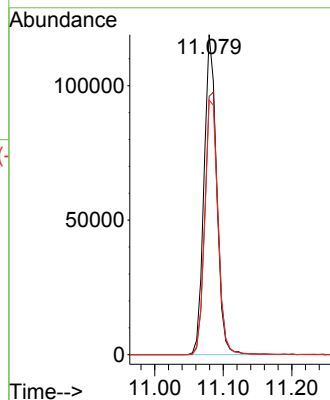
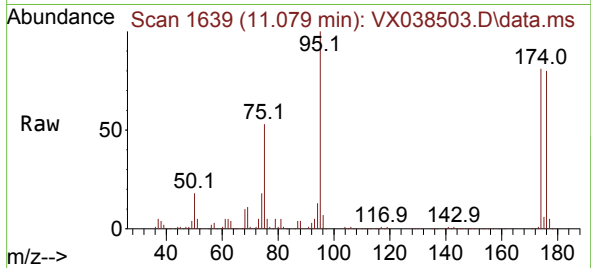




#62  
4-Bromofluorobenzene  
Concen: 46.271 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX038503.D  
Acq: 26 Oct 2023 07:07

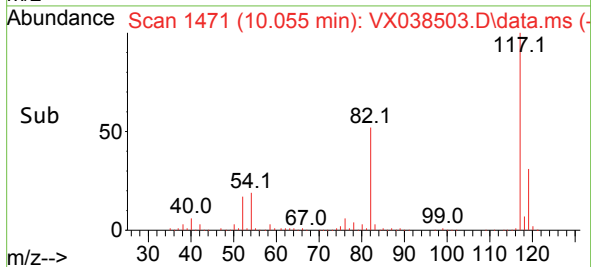
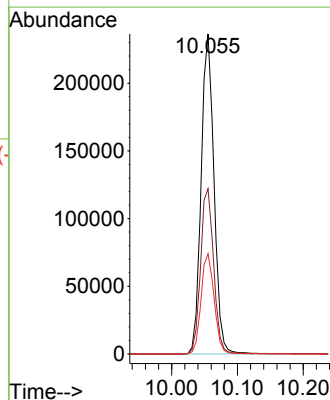
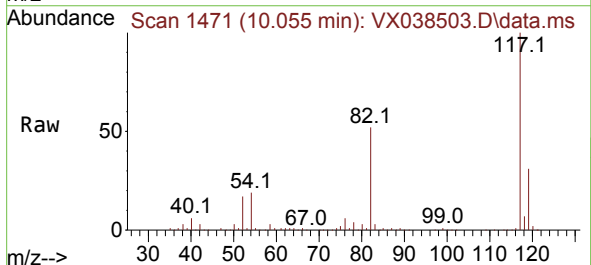
Instrument :  
MSVOA\_X  
ClientSampleId :

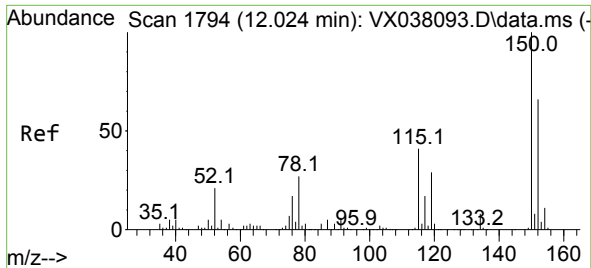
Tgt Ion: 95 Resp: 151851  
Ion Ratio Lower Upper  
95 100  
174 86.2 0.0 135.6  
176 83.3 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX038503.D  
Acq: 26 Oct 2023 07:07

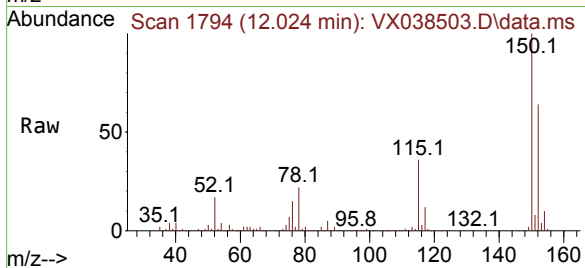
Tgt Ion: 117 Resp: 321802  
Ion Ratio Lower Upper  
117 100  
82 51.6 46.2 69.4  
119 31.3 25.5 38.3



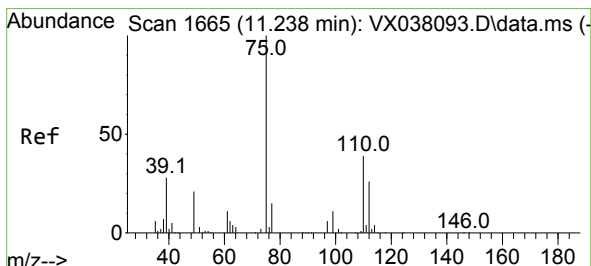
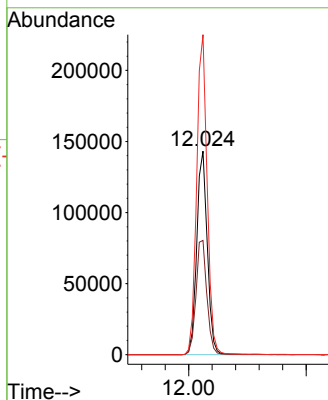
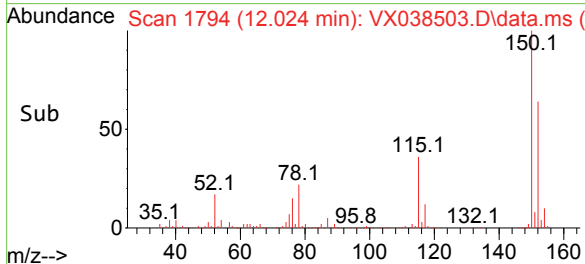


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: VX038503.D  
 Acq: 26 Oct 2023 07:07

Instrument :  
 MSVOA\_X  
 ClientSampleId :

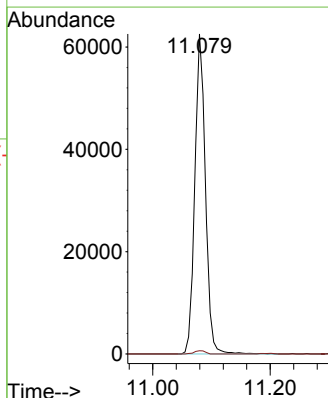
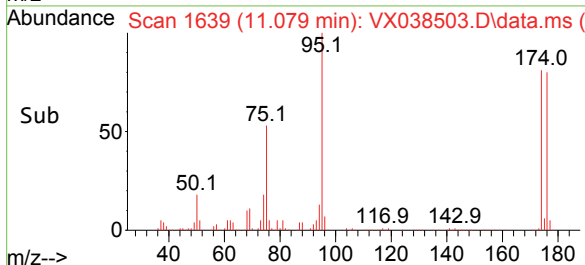
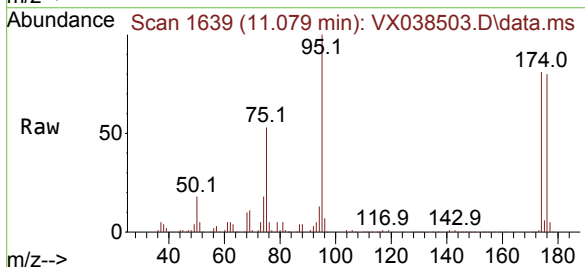


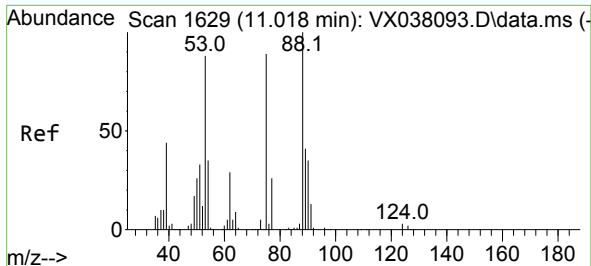
Tgt Ion:152 Resp: 178222  
 Ion Ratio Lower Upper  
 152 100  
 115 58.2 43.3 129.9  
 150 156.4 0.0 345.0



#76  
 1,2,3-Trichloropropane  
 Concen: 19.304 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.159 min  
 Lab File: VX038503.D  
 Acq: 26 Oct 2023 07:07

Tgt Ion: 75 Resp: 78212  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 19.1 57.5#

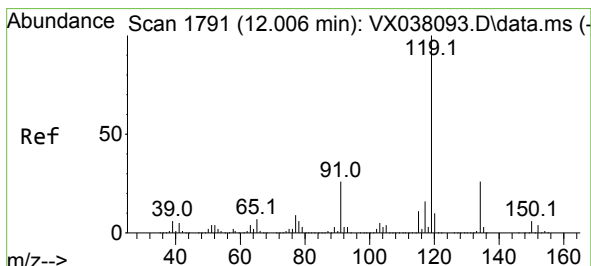
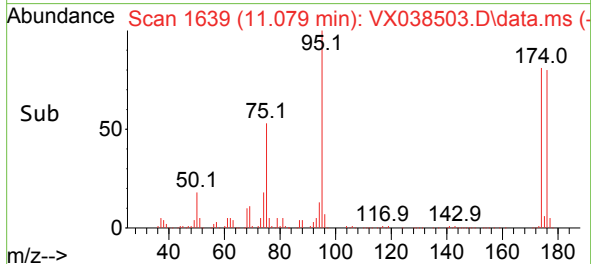
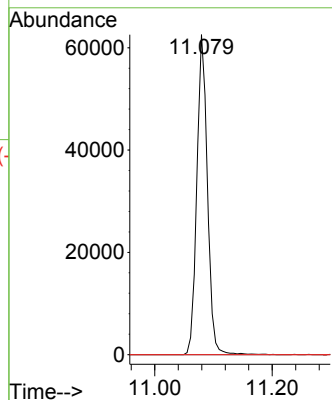
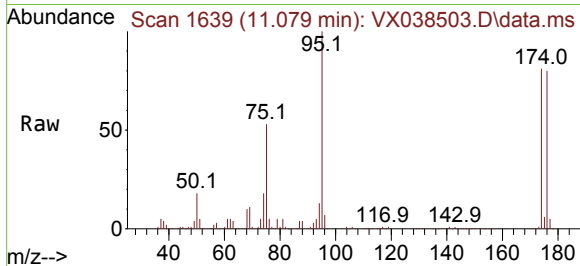




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 55.852 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX038503.D  
 Acq: 26 Oct 2023 07:07

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tgt Ion: 75 Resp: 78212  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.0 36.9 55.3#



#86  
 p-Isopropyltoluene  
 Concen: 0.235 ug/l  
 RT: 12.012 min Scan# 1792  
 Delta R.T. 0.006 min  
 Lab File: VX038503.D  
 Acq: 26 Oct 2023 07:07

Tgt Ion: 119 Resp: 2530  
 Ion Ratio Lower Upper  
 119 100  
 134 33.2 12.8 38.3  
 91 45.5 13.1 39.3#

