

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX072723\  
 Data File : VX036690.D  
 Acq On : 27 Jul 2023 20:44  
 Operator : JC/MD  
 Sample : 03811-13  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jul 28 06:17:34 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

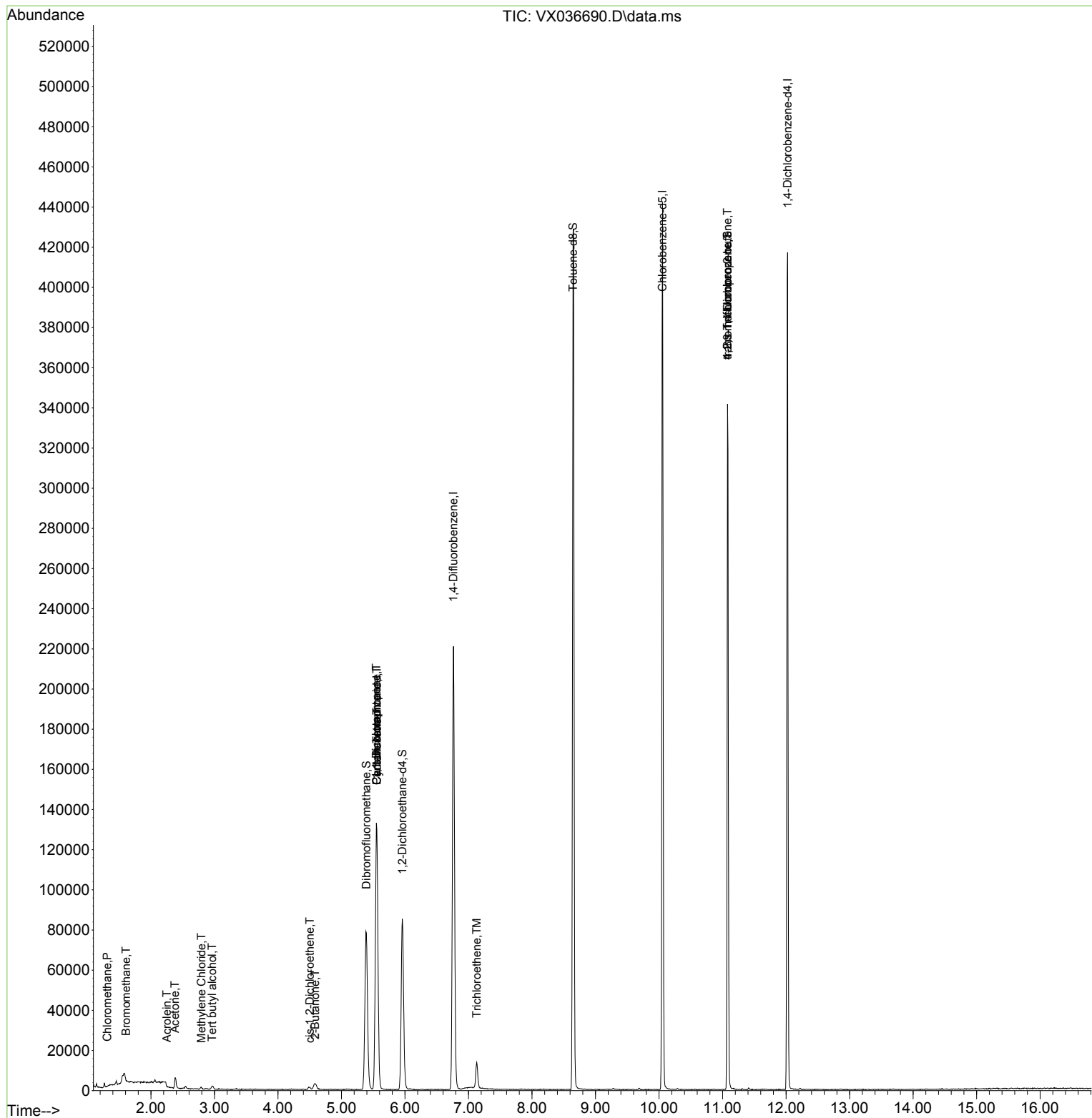
| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 123350     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 222260     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 197758     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 85777      | 50.000  | ug/l   | 0.00     |
|                               |                |      |            |         |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 80974      | 44.366  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 88.740% |        |          |
| 35) Dibromofluoromethane      | 5.391          | 113  | 69853      | 45.725  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 91.440% |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 262162     | 48.391  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 96.780% |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 93821      | 45.902  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 91.800% |        |          |
|                               |                |      |            |         |        |          |
| Target Compounds              |                |      |            |         |        | Qvalue   |
| 3) Chloromethane              | 1.313          | 50   | 359        | 0.242   | ug/l # | 43       |
| 5) Bromomethane               | 1.605          | 94   | 324        | 0.360   | ug/l # | 6        |
| 11) Tert butyl alcohol        | 2.965          | 59   | 2018       | 4.670   | ug/l # | 82       |
| 13) Acrolein                  | 2.252          | 56   | 117        | 0.474   | ug/l # | 14       |
| 16) Acetone                   | 2.380          | 43   | 6128       | 8.091   | ug/l   | 92       |
| 20) Methylene Chloride        | 2.794          | 84   | 460        | 0.273   | ug/l # | 86       |
| 25) 2-Butanone                | 4.587          | 43   | 312        | 0.254   | ug/l # | 51       |
| 27) cis-1,2-Dichloroethene    | 4.501          | 96   | 823        | 0.449   | ug/l   | 82       |
| 31) Cyclohexane               | 5.556          | 56   | 2853       | 1.129   | ug/l # | 33       |
| 36) 1,1-Dichloropropene       | 5.550          | 75   | 10127      | 4.447   | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.556          | 117  | 13044      | 5.388   | ug/l # | 15       |
| 44) Trichloroethene           | 7.129          | 130  | 5032       | 2.906   | ug/l   | 93       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 49201      | 24.386  | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 49201      | 55.273  | ug/l # | 5        |
| -----                         |                |      |            |         |        |          |

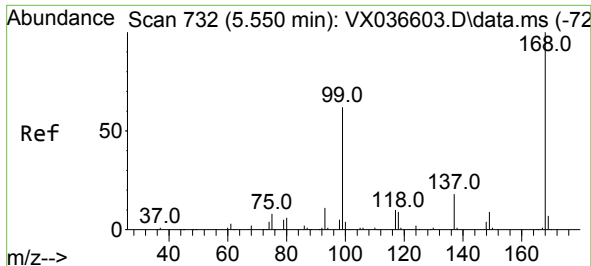
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX072723\  
Data File : VX036690.D  
Acq On : 27 Jul 2023 20:44  
Operator : JC/MD  
Sample : 03811-13  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

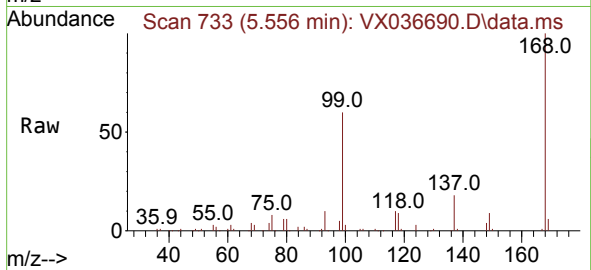
Quant Time: Jul 28 06:17:34 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072123W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 21 12:14:12 2023  
Response via : Initial Calibration



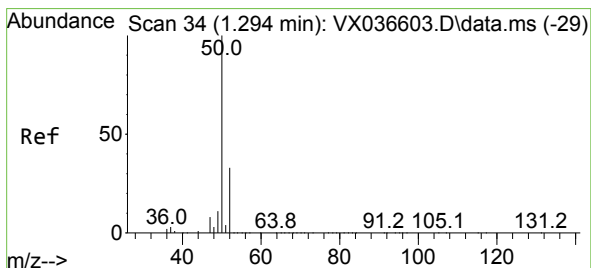
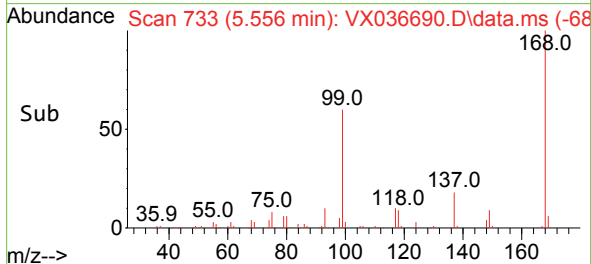
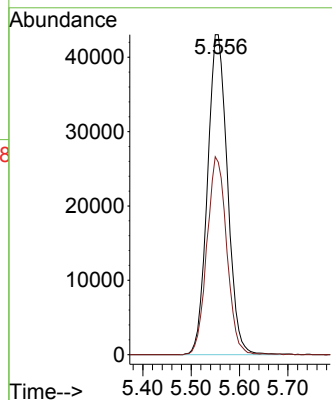


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX036690.D  
Acq: 27 Jul 2023 20:44

Instrument :  
MSVOA\_X  
ClientSampleId :

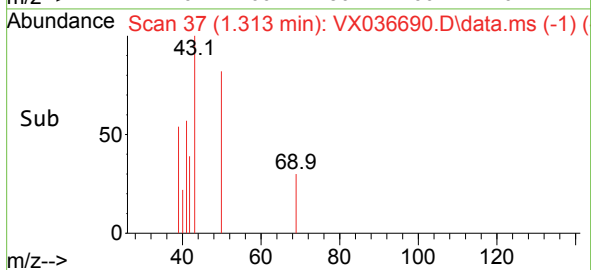
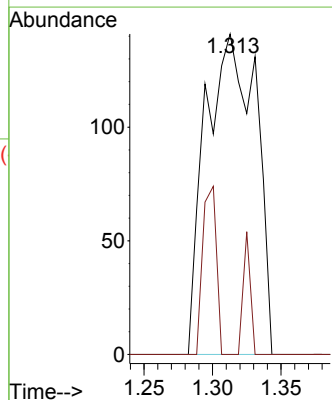
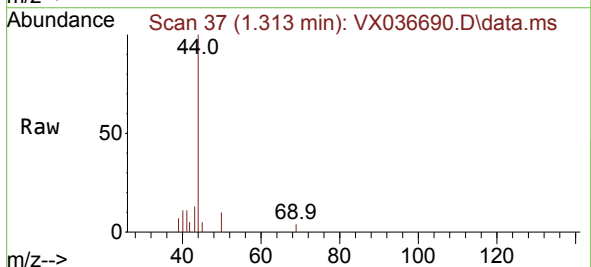


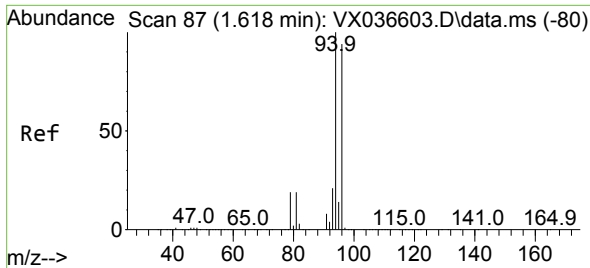
Tgt Ion:168 Resp: 123350  
Ion Ratio Lower Upper  
168 100  
99 60.1 56.6 85.0



#3  
Chloromethane  
Concen: 0.242 ug/l  
RT: 1.313 min Scan# 37  
Delta R.T. 0.018 min  
Lab File: VX036690.D  
Acq: 27 Jul 2023 20:44

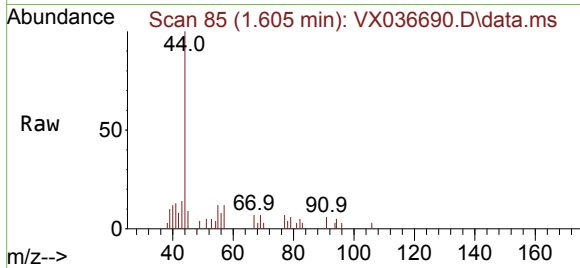
Tgt Ion: 50 Resp: 359  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.5 38.3#



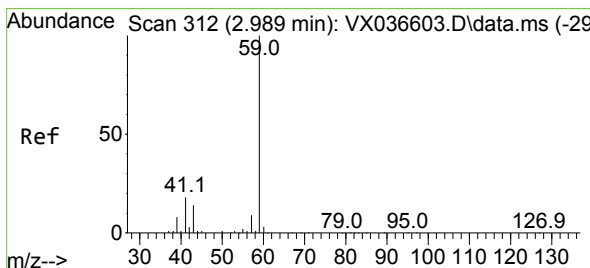
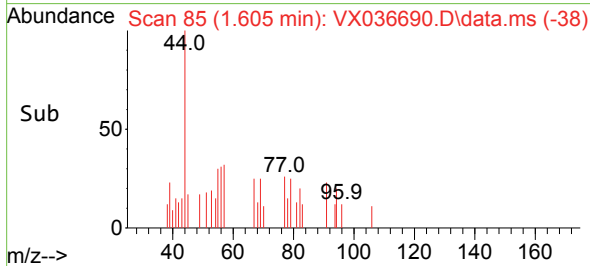
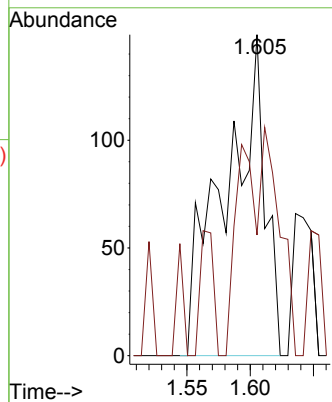


#5  
Bromomethane  
Concen: 0.360 ug/l  
RT: 1.605 min Scan# 81  
Delta R.T. -0.012 min  
Lab File: VX036690.D  
Acq: 27 Jul 2023 20:44

Instrument :  
MSVOA\_X  
ClientSampleId :

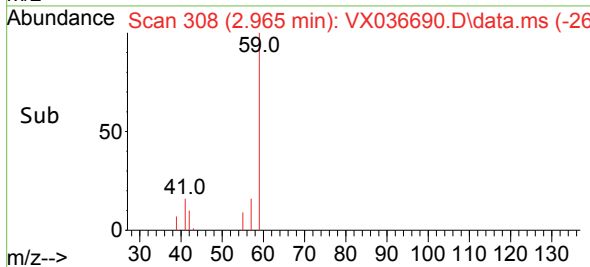
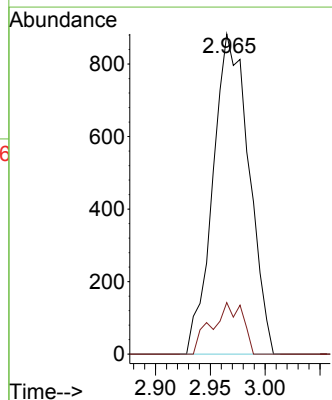
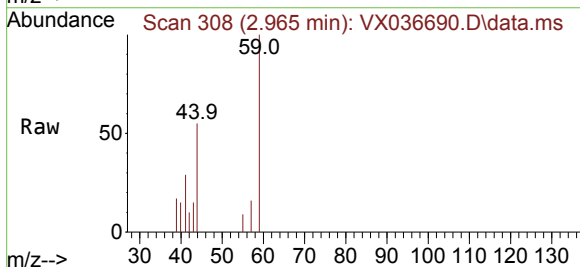


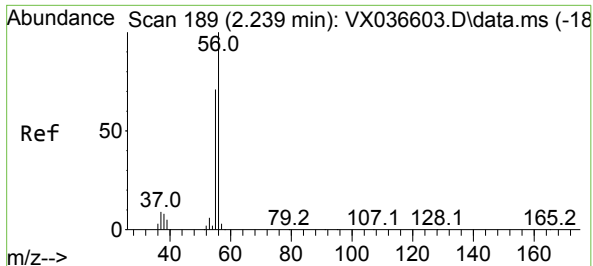
Tgt Ion: 94 Resp: 324  
Ion Ratio Lower Upper  
94 100  
96 2.7 74.6 111.8#



#11  
Tert butyl alcohol  
Concen: 4.670 ug/l  
RT: 2.965 min Scan# 308  
Delta R.T. -0.024 min  
Lab File: VX036690.D  
Acq: 27 Jul 2023 20:44

Tgt Ion: 59 Resp: 2018  
Ion Ratio Lower Upper  
59 100  
57 13.8 6.0 9.0#

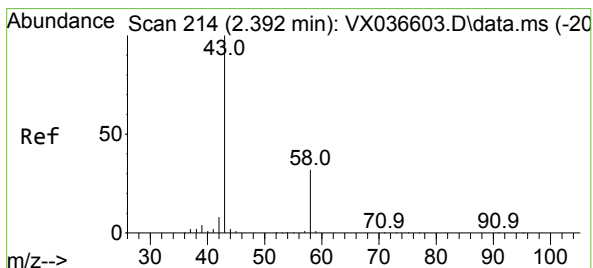
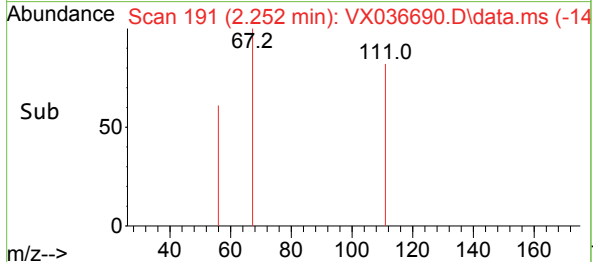
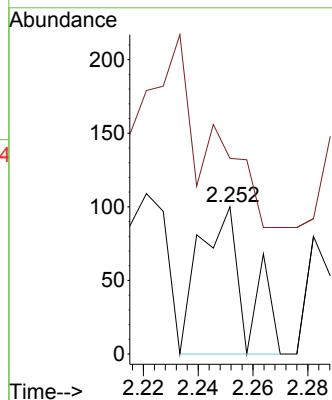
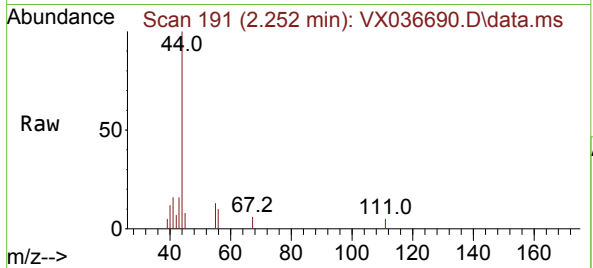




#13  
Acrolein  
Concen: 0.474 ug/l  
RT: 2.252 min Scan# 191  
Delta R.T. 0.012 min  
Lab File: VX036690.D  
Acq: 27 Jul 2023 20:44

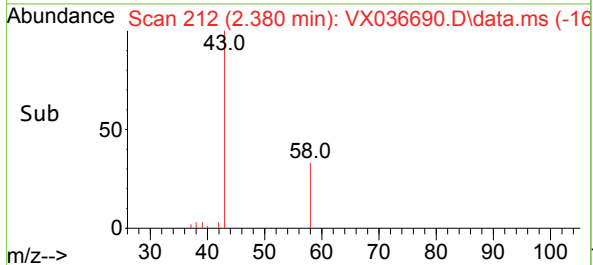
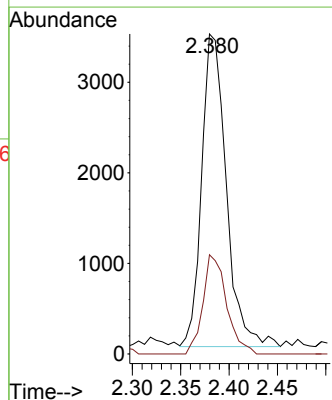
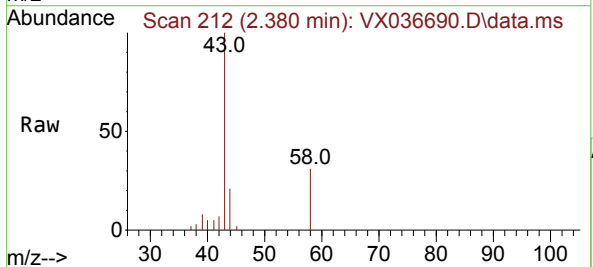
Instrument :  
MSVOA\_X  
ClientSampleId :

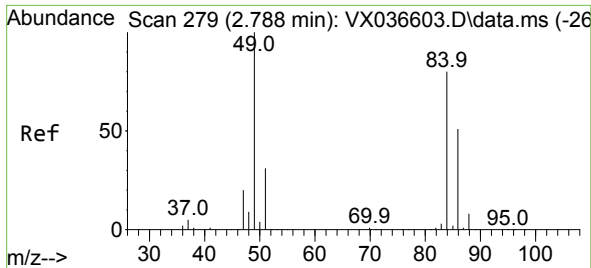
Tgt Ion: 56 Resp: 117  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.1 85.7#



#16  
Acetone  
Concen: 8.091 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.012 min  
Lab File: VX036690.D  
Acq: 27 Jul 2023 20:44

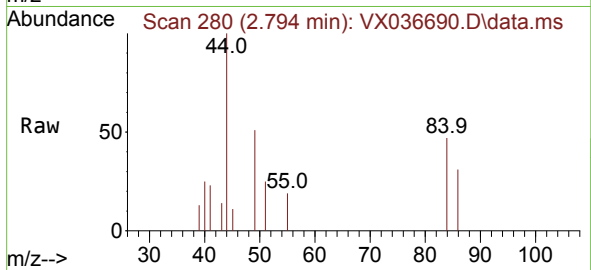
Tgt Ion: 43 Resp: 6128  
Ion Ratio Lower Upper  
43 100  
58 31.7 21.9 32.9



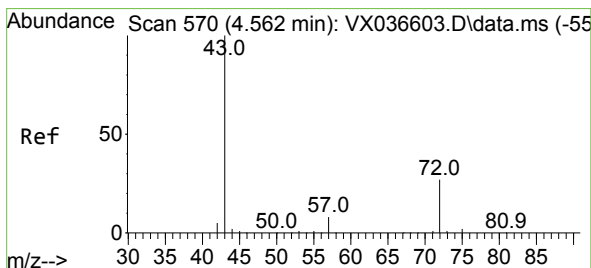
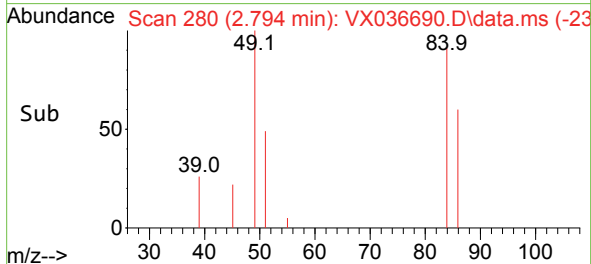
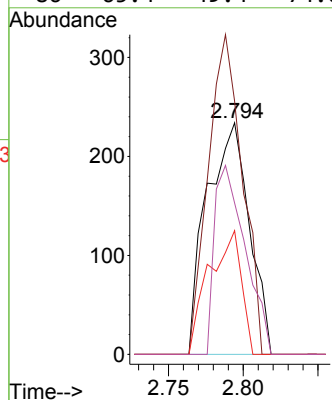


#20  
Methylene Chloride  
Concen: 0.273 ug/l  
RT: 2.794 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX036690.D  
Acq: 27 Jul 2023 20:44

Instrument :  
MSVOA\_X  
ClientSampleId :

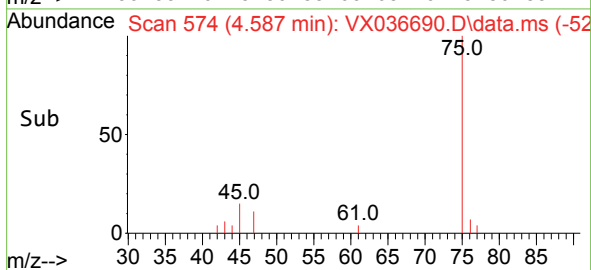
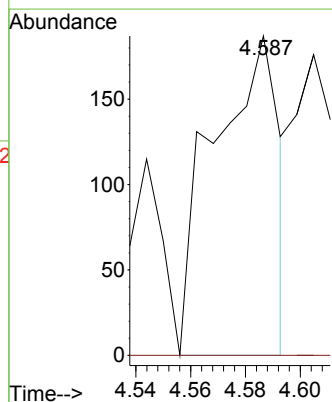
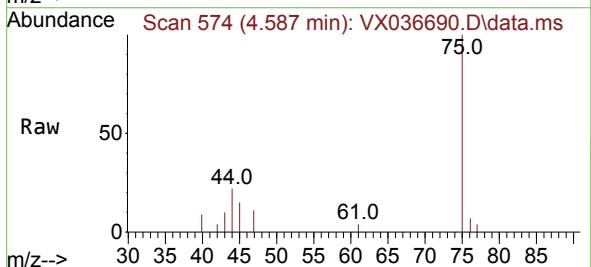


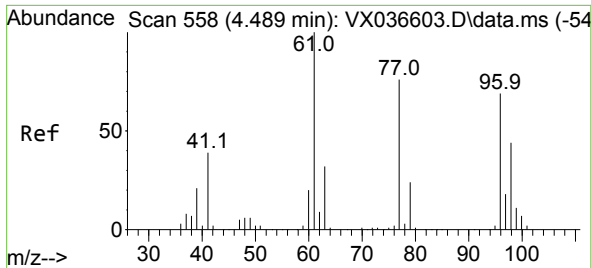
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 460   |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 109.4    | 103.6 155.4 |
| 51 53.4     | 33.8 50.6#  |
| 86 65.4     | 49.4 74.0   |



#25  
2-Butanone  
Concen: 0.254 ug/l  
RT: 4.587 min Scan# 574  
Delta R.T. 0.024 min  
Lab File: VX036690.D  
Acq: 27 Jul 2023 20:44

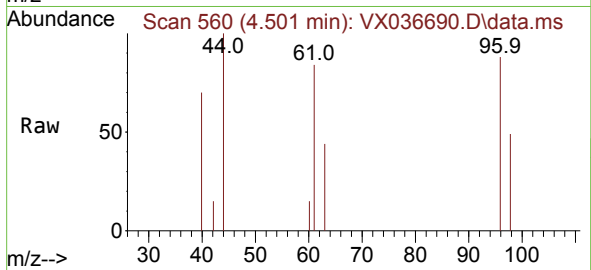
|             |           |       |  |
|-------------|-----------|-------|--|
| Tgt Ion: 43 | Resp: 312 |       |  |
| Ion Ratio   | Lower     | Upper |  |
| 43 100      |           |       |  |
| 72 0.0      | 19.4      | 29.2# |  |



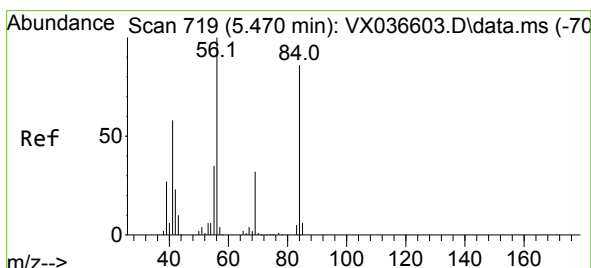
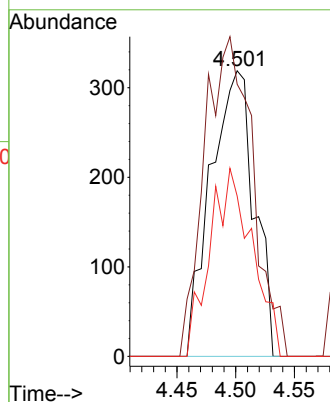
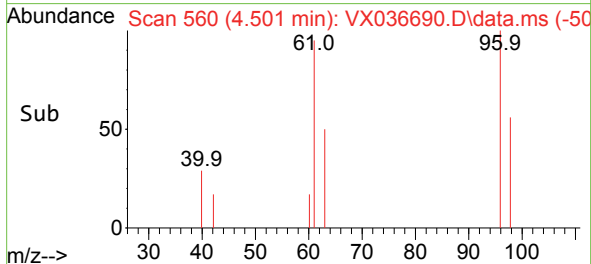


#27  
cis-1,2-Dichloroethene  
Concen: 0.449 ug/l  
RT: 4.501 min Scan# 501  
Delta R.T. 0.012 min  
Lab File: VX036690.D  
Acq: 27 Jul 2023 20:44

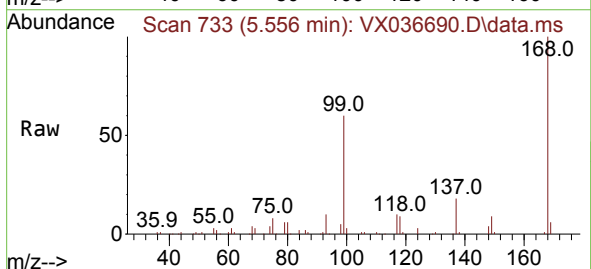
Instrument :  
MSVOA\_X  
ClientSampleId :



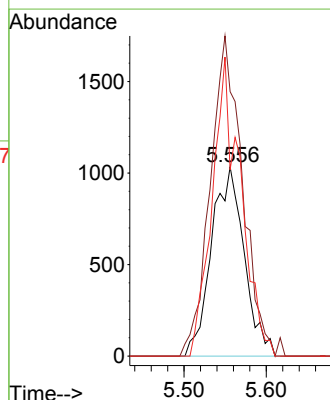
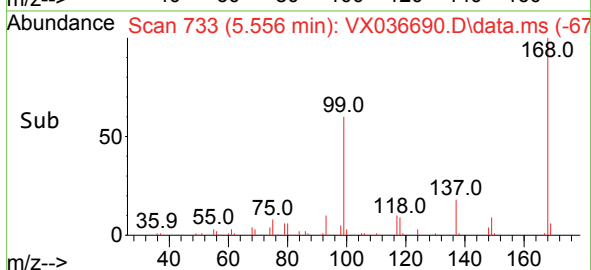
|             |           |       |       |
|-------------|-----------|-------|-------|
| Tgt Ion: 96 | Resp: 823 |       |       |
| Ion         | Ratio     | Lower | Upper |
| 96          | 100       |       |       |
| 61          | 123.8     | 0.0   | 312.2 |
| 98          | 63.9      | 0.0   | 129.0 |

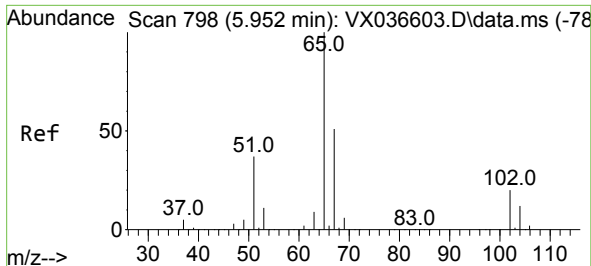


#31  
Cyclohexane  
Concen: 1.129 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. 0.085 min  
Lab File: VX036690.D  
Acq: 27 Jul 2023 20:44



|             |             |
|-------------|-------------|
| Tgt Ion: 56 | Resp: 2853  |
| Ion Ratio   | Lower Upper |
| 56 100      |             |
| 69 139.7    | 23.4 35.2#  |
| 84 98.5     | 65.9 98.9   |





#33

1,2-Dichloroethane-d4

Concen: 44.366 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX036690.D

Acq: 27 Jul 2023 20:44

Instrument :

MSVOA\_X

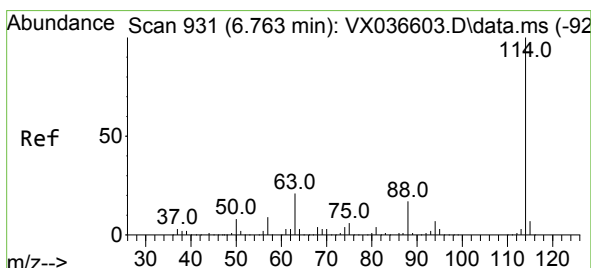
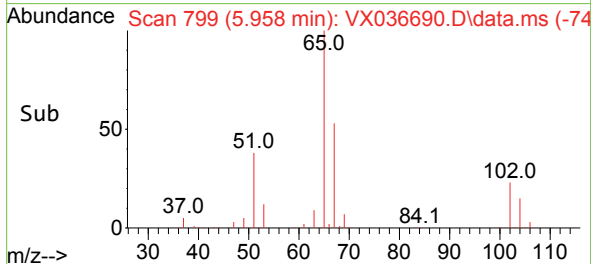
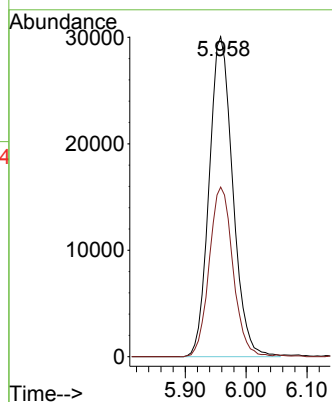
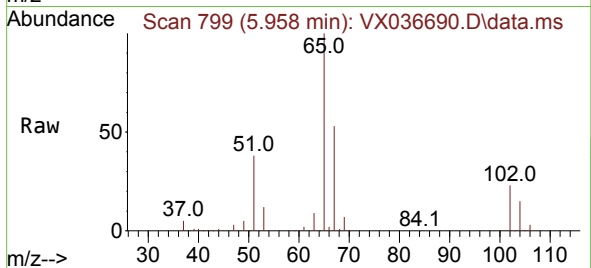
ClientSampleId :

Tgt Ion: 65 Resp: 80974

Ion Ratio Lower Upper

65 100

67 53.2 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: VX036690.D

Acq: 27 Jul 2023 20:44

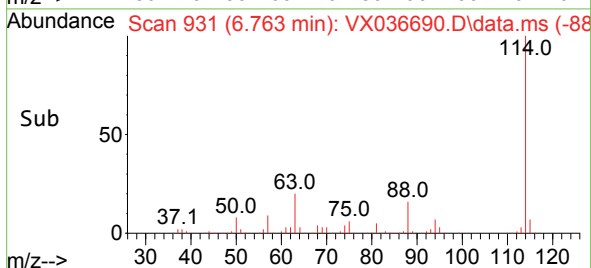
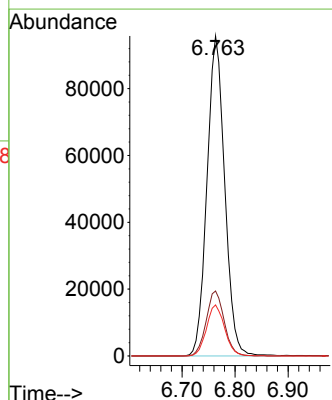
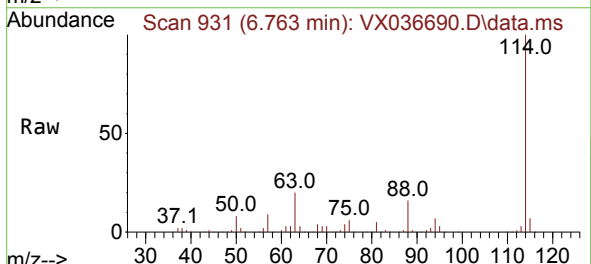
Tgt Ion: 114 Resp: 222260

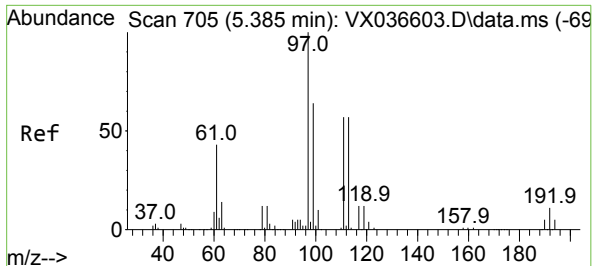
Ion Ratio Lower Upper

114 100

63 20.3 0.0 45.0

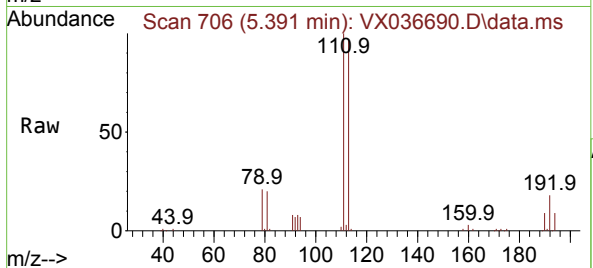
88 16.0 0.0 36.6



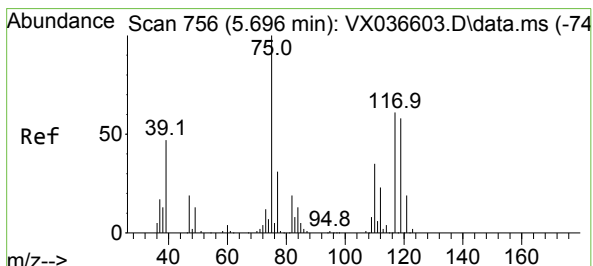
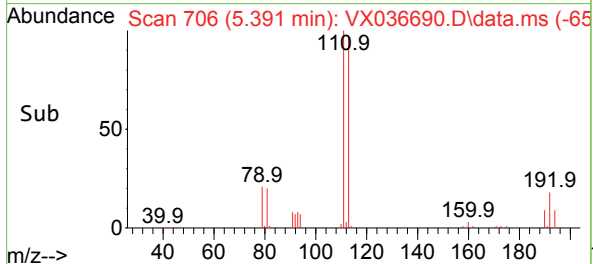
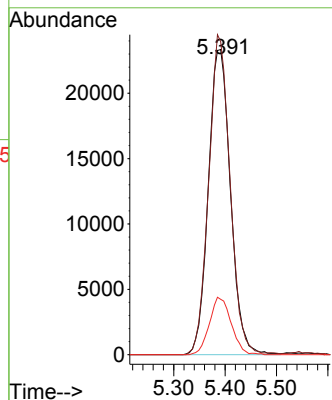


#35  
Dibromofluoromethane  
Concen: 45.725 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.006 min  
Lab File: VX036690.D  
Acq: 27 Jul 2023 20:44

Instrument :  
MSVOA\_X  
ClientSampleId :

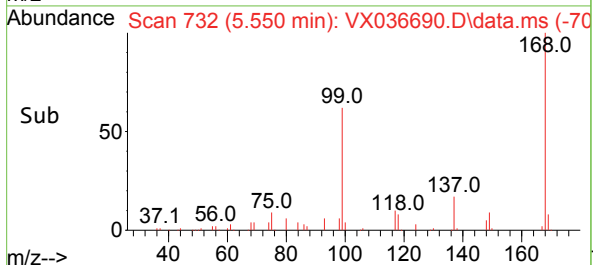
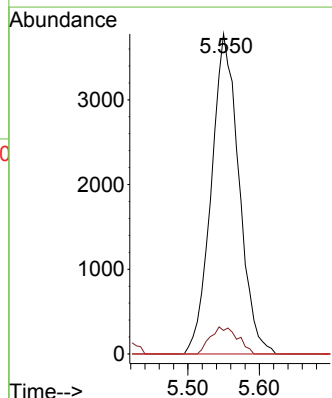
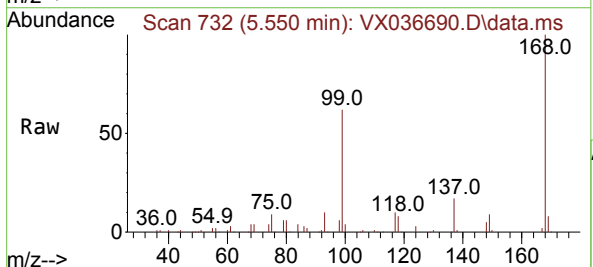


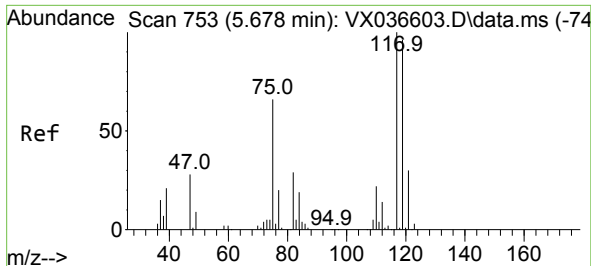
Tgt Ion:113 Resp: 69853  
Ion Ratio Lower Upper  
113 100  
111 101.0 82.9 124.3  
192 18.5 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 4.447 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.146 min  
Lab File: VX036690.D  
Acq: 27 Jul 2023 20:44

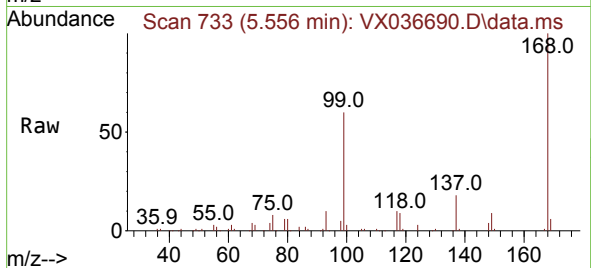
Tgt Ion: 75 Resp: 10127  
Ion Ratio Lower Upper  
75 100  
110 8.4 17.0 50.9#  
77 0.0 24.7 37.1#



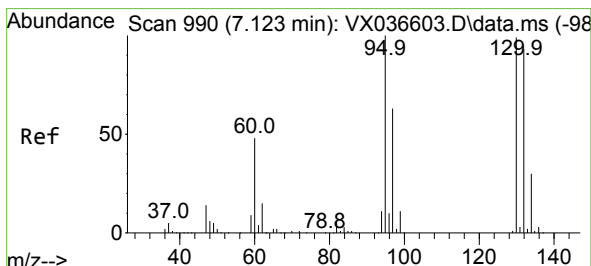
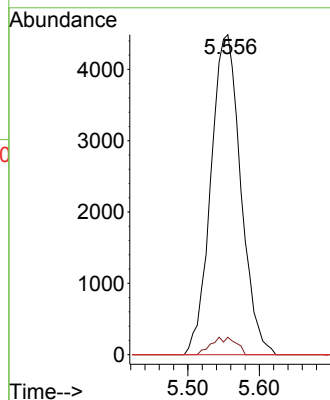
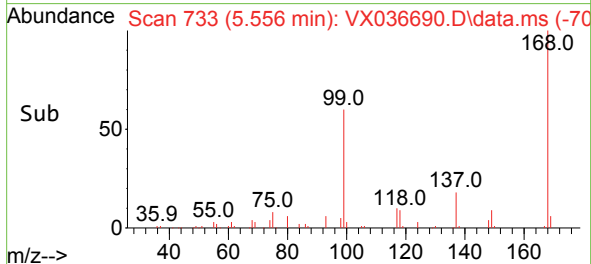


#38  
Carbon Tetrachloride  
Concen: 5.388 ug/l  
RT: 5.556 min Scan# 713  
Delta R.T. -0.122 min  
Lab File: VX036690.D  
Acq: 27 Jul 2023 20:44

Instrument :  
MSVOA\_X  
ClientSampleId :

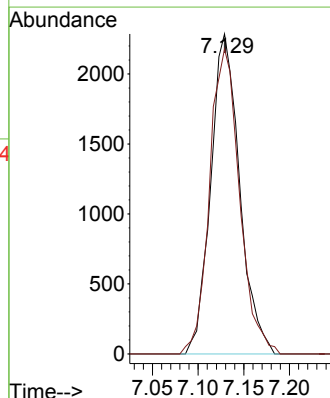
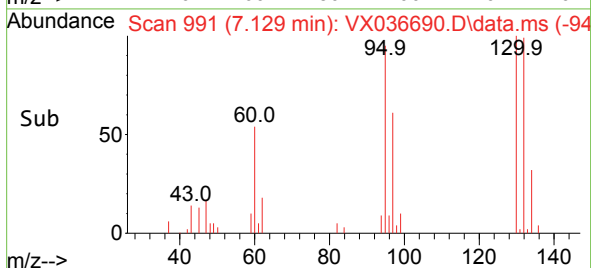
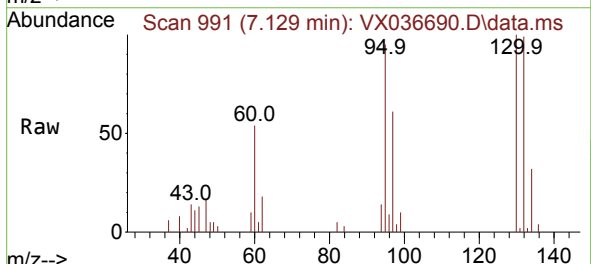


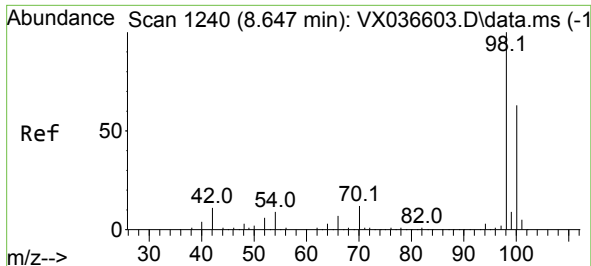
Tgt Ion:117 Resp: 13044  
Ion Ratio Lower Upper  
117 100  
119 5.5 78.2 117.2#  
121 0.0 24.4 36.6#



#44  
Trichloroethene  
Concen: 2.906 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. 0.006 min  
Lab File: VX036690.D  
Acq: 27 Jul 2023 20:44

Tgt Ion:130 Resp: 5032  
Ion Ratio Lower Upper  
130 100  
95 95.3 0.0 204.4

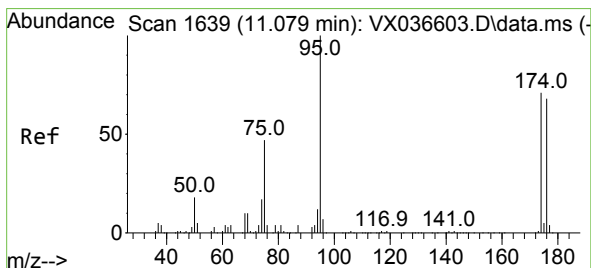
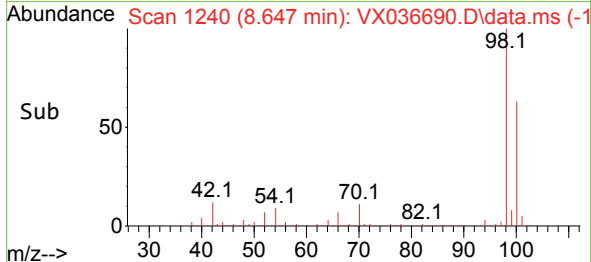
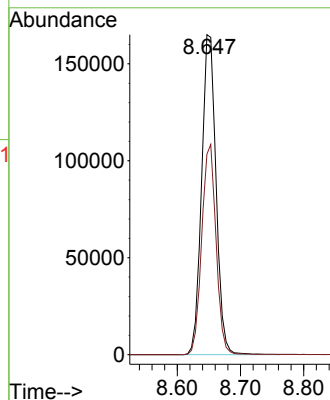
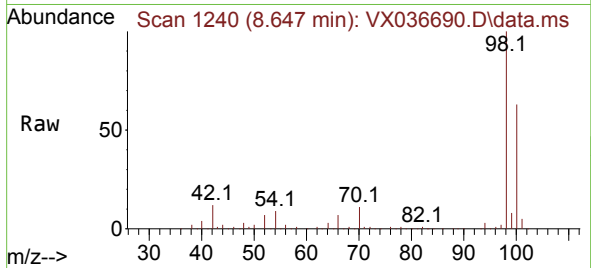




#50  
Toluene-d8  
Concen: 48.391 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX036690.D  
Acq: 27 Jul 2023 20:44

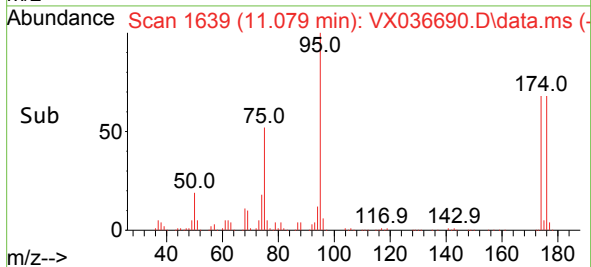
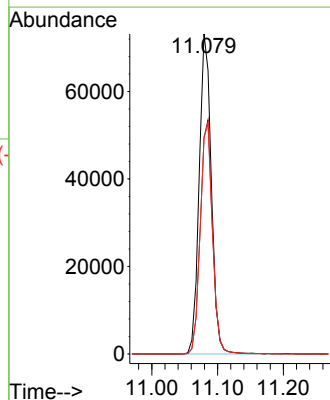
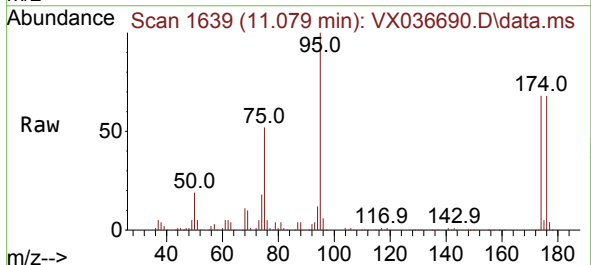
Instrument :  
MSVOA\_X  
ClientSampleId :

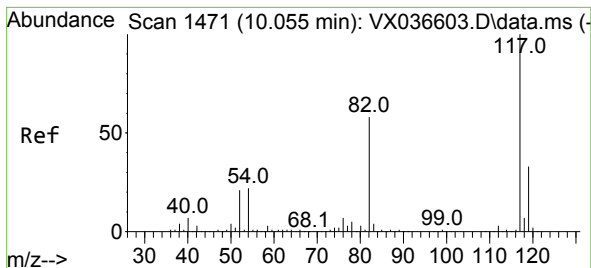
Tgt Ion: 98 Resp: 262162  
Ion Ratio Lower Upper  
98 100  
100 65.3 53.1 79.7



#62  
4-Bromofluorobenzene  
Concen: 45.902 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX036690.D  
Acq: 27 Jul 2023 20:44

Tgt Ion: 95 Resp: 93821  
Ion Ratio Lower Upper  
95 100  
174 73.4 0.0 135.6  
176 72.7 0.0 131.0

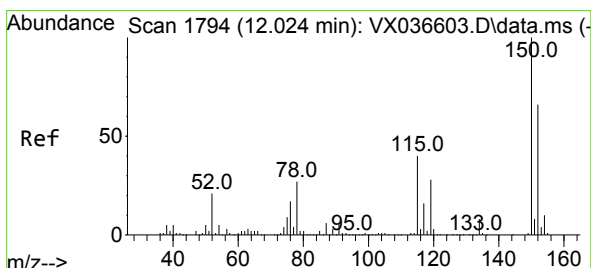
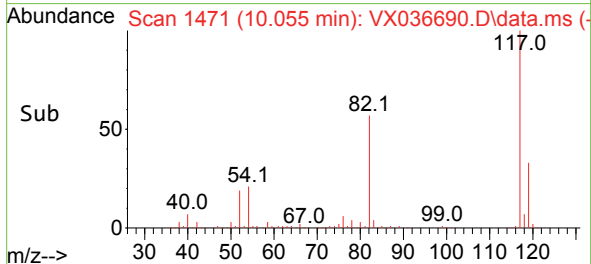
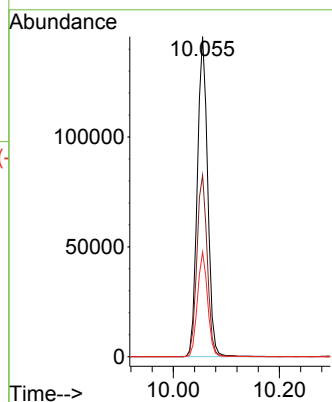
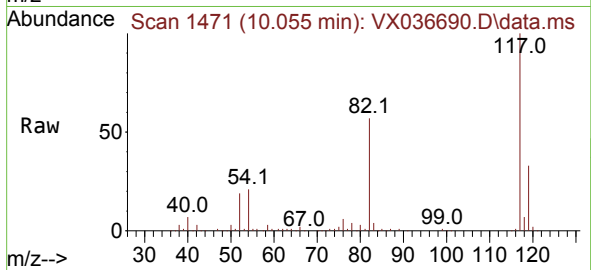




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX036690.D  
Acq: 27 Jul 2023 20:44

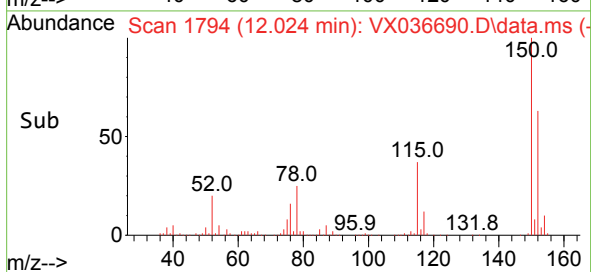
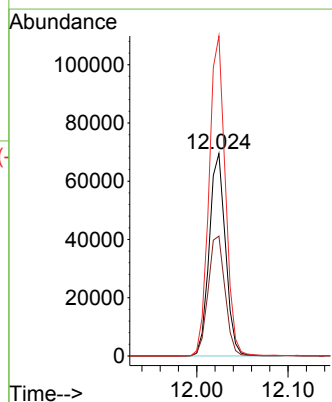
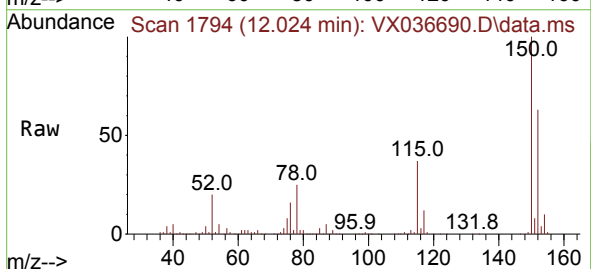
Instrument :  
MSVOA\_X  
ClientSampleId :

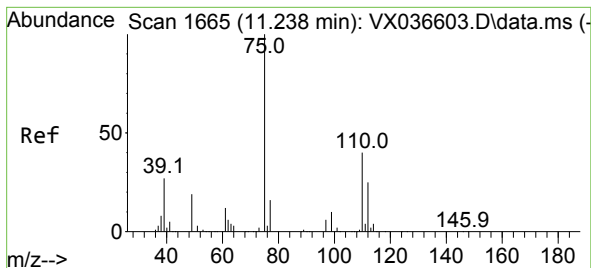
Tgt Ion:117 Resp: 197758  
Ion Ratio Lower Upper  
117 100  
82 56.7 46.2 69.4  
119 32.7 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX036690.D  
Acq: 27 Jul 2023 20:44

Tgt Ion:152 Resp: 85777  
Ion Ratio Lower Upper  
152 100  
115 61.7 43.3 129.9  
150 158.3 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 24.386 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX036690.D

Acq: 27 Jul 2023 20:44

Instrument :

MSVOA\_X

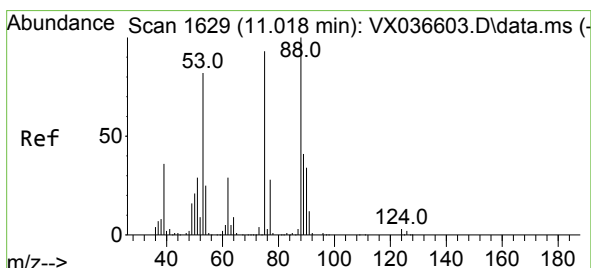
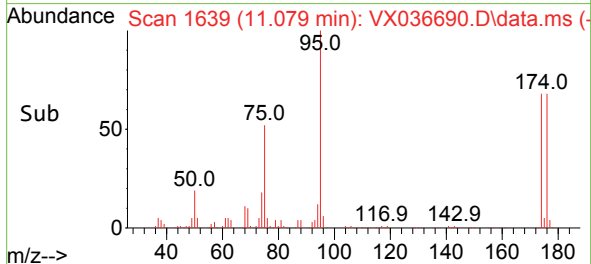
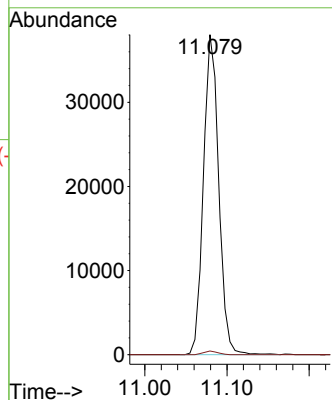
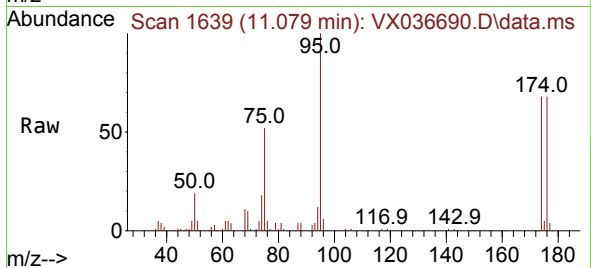
ClientSampleId :

Tgt Ion: 75 Resp: 49201

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 55.273 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX036690.D

Acq: 27 Jul 2023 20:44

Tgt Ion: 75 Resp: 49201

Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#

