

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX101123\  
 Data File : VX038216.D  
 Acq On : 11 Oct 2023 10:04  
 Operator : JC/MD  
 Sample : VX1011MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Oct 12 02:39:02 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

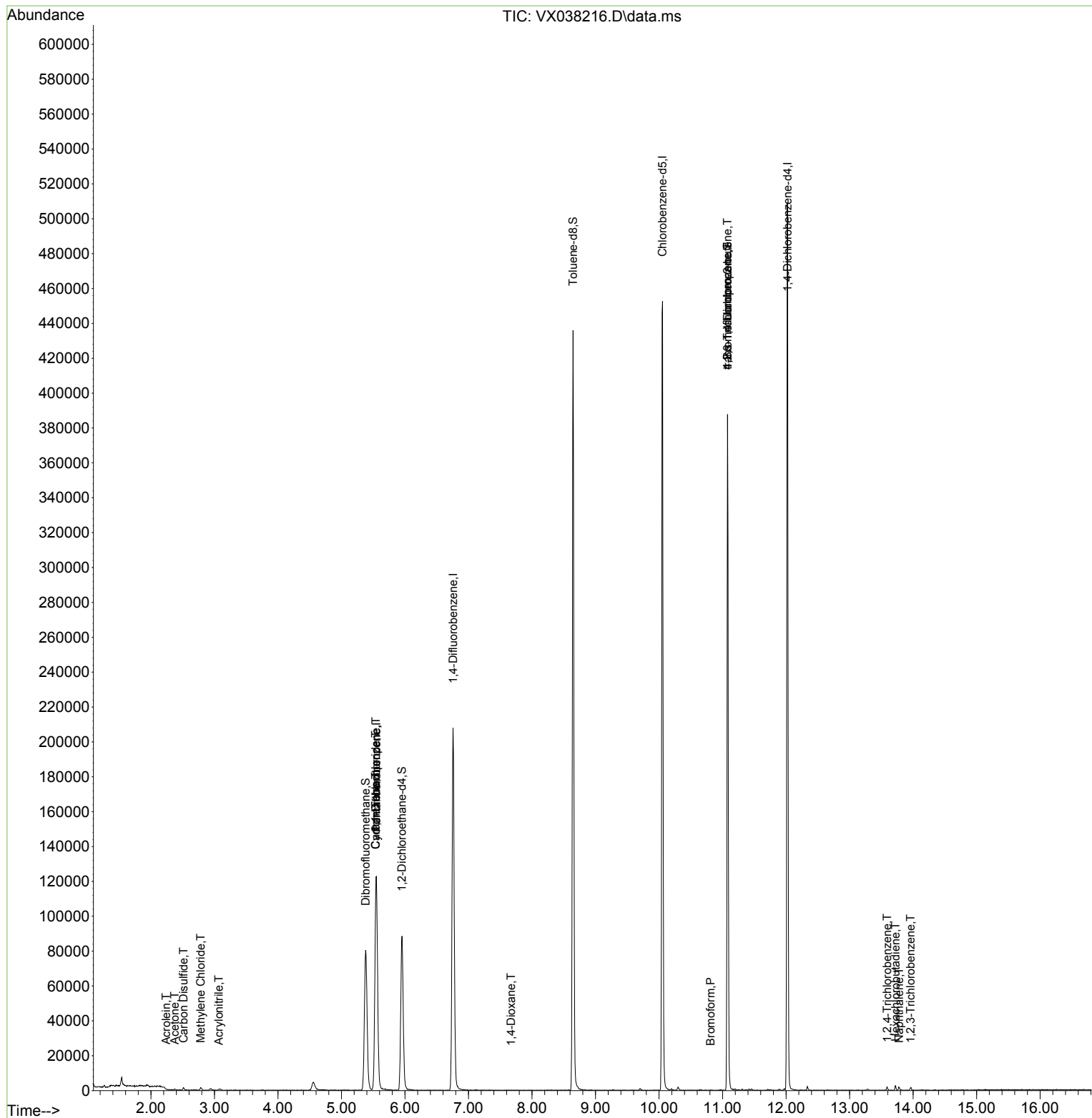
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 118578   | 50.000    | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 209525   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 207672   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 106077   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 87013    | 45.622    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 91.240%  |
| 35) Dibromofluoromethane      | 5.379  | 113   | 68389    | 45.298    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 90.600%  |
| 50) Toluene-d8                | 8.647  | 98    | 260733   | 45.194    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 90.380%# |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 97896    | 44.760    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 89.520%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 5) Bromomethane               | 1.532  | 94    | 27       | Below Cal | #      | 3        |
| 6) Chloroethane               | 1.685  | 64    | 223      | Below Cal | #      | 43       |
| 11) Tert butyl alcohol        | 2.947  | 59    | 632      | Below Cal | #      | 78       |
| 13) Acrolein                  | 2.239  | 56    | 110      | 0.406     | ug/l   | 99       |
| 15) Acrylonitrile             | 3.068  | 53    | 377      | 0.434     | ug/l   | # 76     |
| 16) Acetone                   | 2.373  | 43    | 475      | 0.597     | ug/l   | 96       |
| 17) Carbon Disulfide          | 2.514  | 76    | 1464     | 0.468     | ug/l   | # 76     |
| 20) Methylene Chloride        | 2.782  | 84    | 737      | 0.492     | ug/l   | # 93     |
| 31) Cyclohexane               | 5.538  | 56    | 2948     | 1.427     | ug/l   | # 1      |
| 36) 1,1-Dichloropropene       | 5.544  | 75    | 9964     | 4.786     | ug/l   | # 51     |
| 38) Carbon Tetrachloride      | 5.538  | 117   | 12495    | 6.101     | ug/l   | # 15     |
| 49) 1,4-Dioxane               | 7.671  | 88    | 40       | 0.921     | ug/l   | # 12     |
| 71) Bromoform                 | 10.811 | 173   | 22       | 2.878     | ug/l   | # 29     |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 55403    | 22.974    | ug/l   | # 38     |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 55403    | 65.705    | ug/l   | # 5      |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180   | 635      | 0.282     | ug/l   | 93       |
| 94) Hexachlorobutadiene       | 13.725 | 225   | 415      | 0.458     | ug/l   | 89       |
| 95) Naphthalene               | 13.780 | 128   | 1706     | 0.218     | ug/l   | # 86     |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180   | 564      | 0.259     | ug/l   | 92       |
| -----                         |        |       |          |           |        |          |

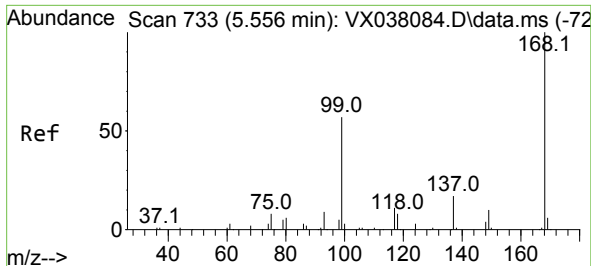
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX101123\  
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Sample : VX1011MBL01  
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

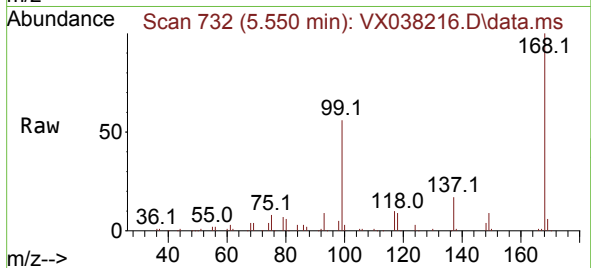
Quant Time: Oct 12 02:39:02 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 05 15:27:13 2023  
Response via : Initial Calibration



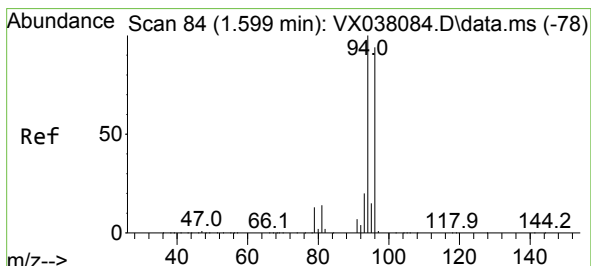
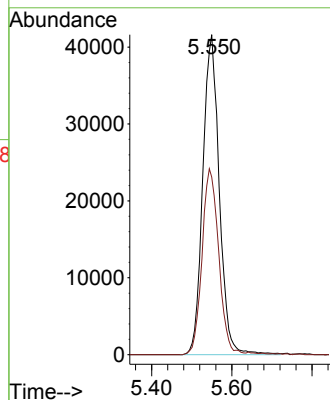
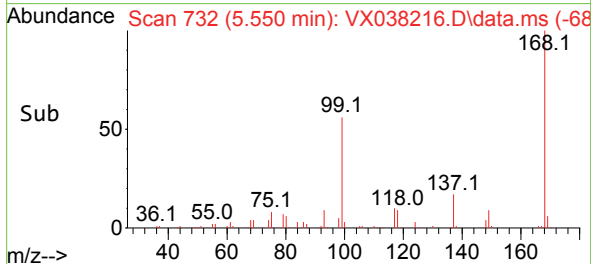


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX038216.D  
Acq: 11 Oct 2023 10:04

Instrument :  
MSVOA\_X  
ClientSampleId :

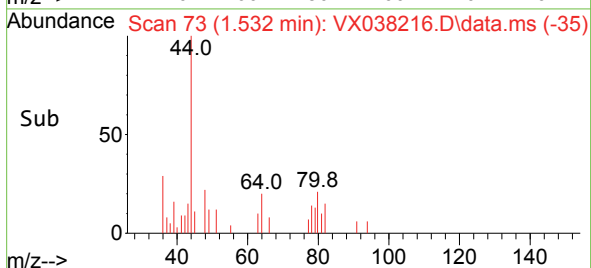
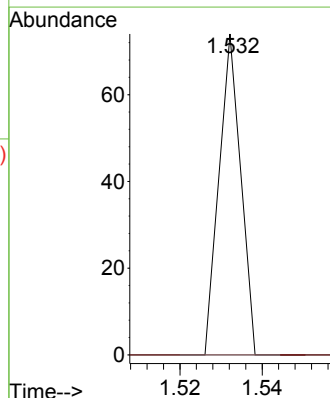
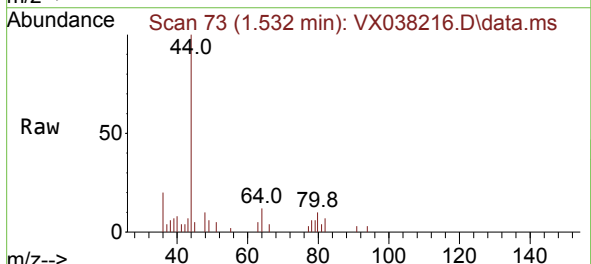


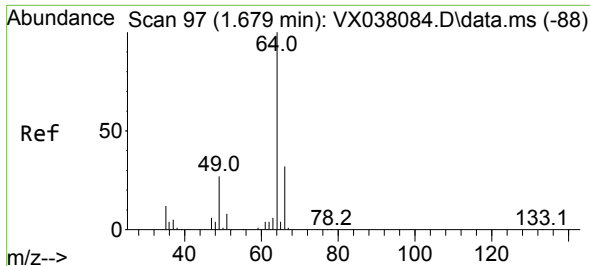
Tgt Ion:168 Resp: 118578  
Ion Ratio Lower Upper  
168 100  
99 55.5 56.6 85.0#



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.532 min Scan# 73  
Delta R.T. -0.067 min  
Lab File: VX038216.D  
Acq: 11 Oct 2023 10:04

Tgt Ion: 94 Resp: 27  
Ion Ratio Lower Upper  
94 100  
96 0.0 74.6 111.8#

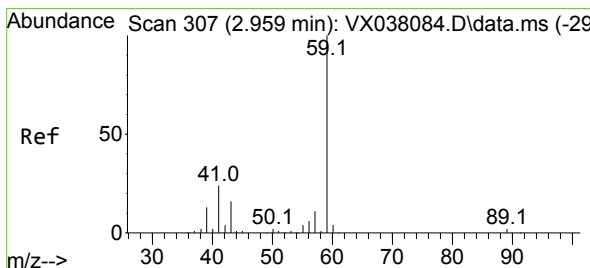
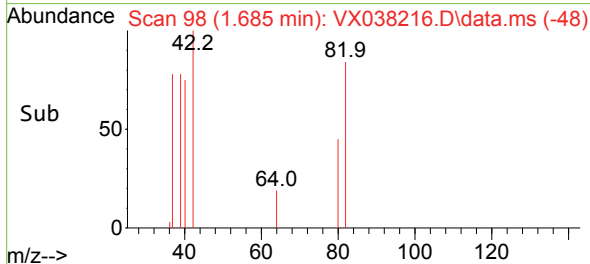
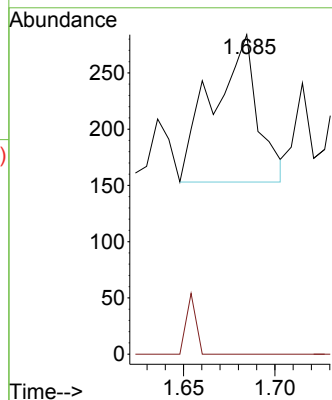
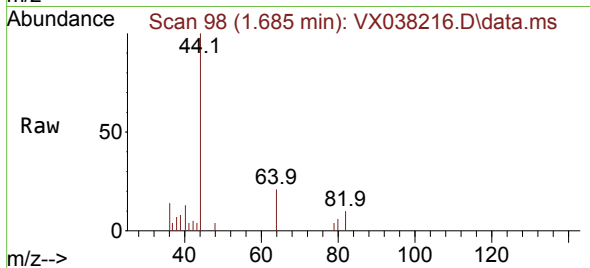




#6  
Chloroethane  
Concen: Below Cal  
RT: 1.685 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VX038216.D  
Acq: 11 Oct 2023 10:04

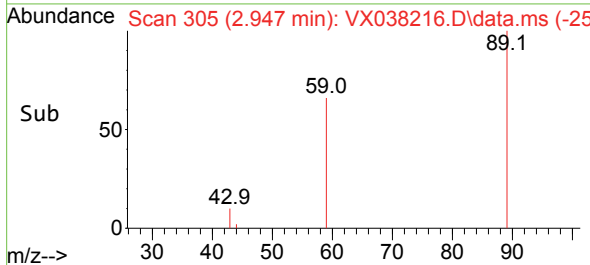
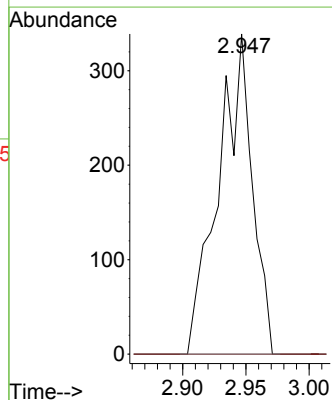
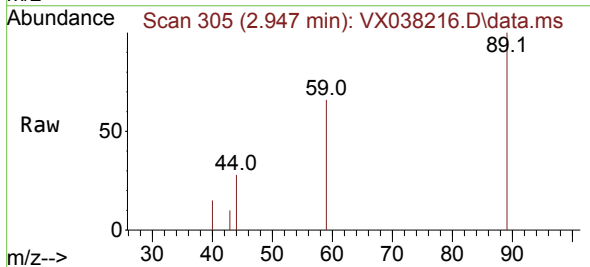
Instrument :  
MSVOA\_X  
ClientSampleId :

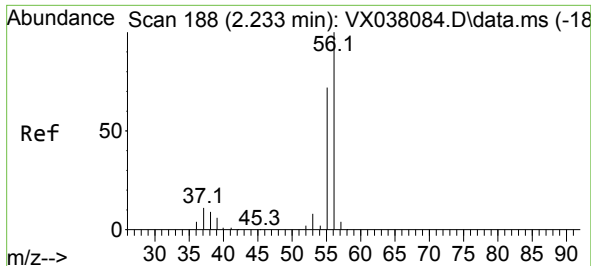
Tgt Ion: 64 Resp: 223  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.1 37.7#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 2.947 min Scan# 305  
Delta R.T. -0.012 min  
Lab File: VX038216.D  
Acq: 11 Oct 2023 10:04

Tgt Ion: 59 Resp: 632  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#

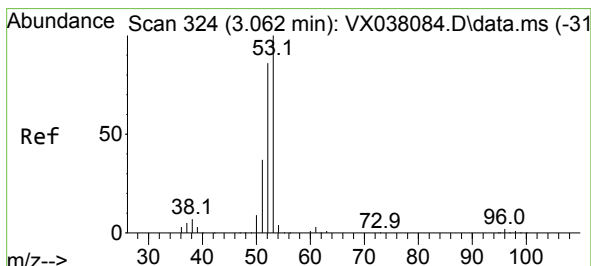
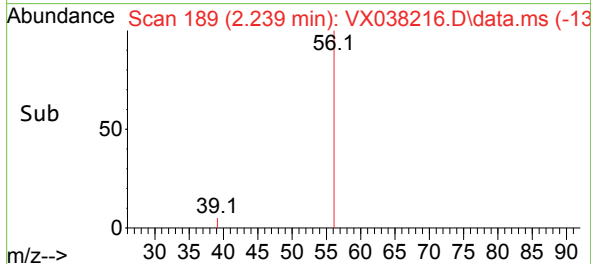
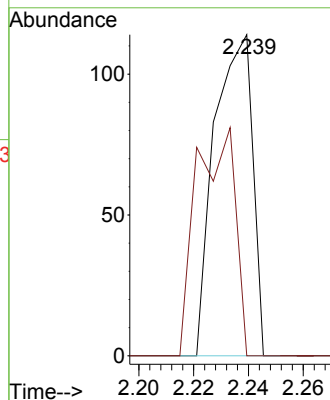
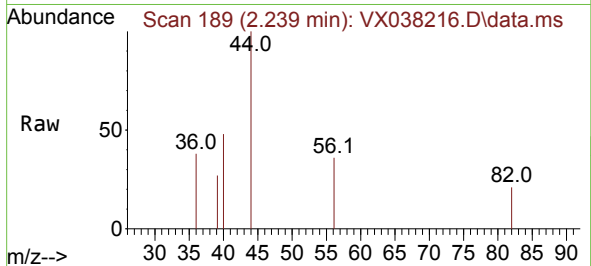




#13  
Acrolein  
Concen: 0.406 ug/l  
RT: 2.239 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX038216.D  
Acq: 11 Oct 2023 10:04

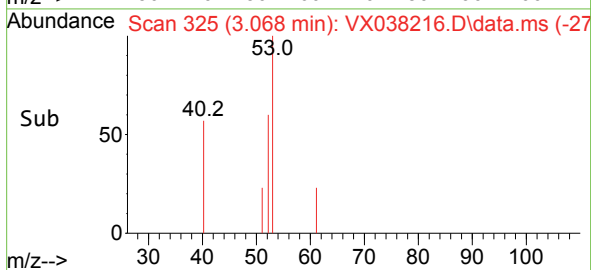
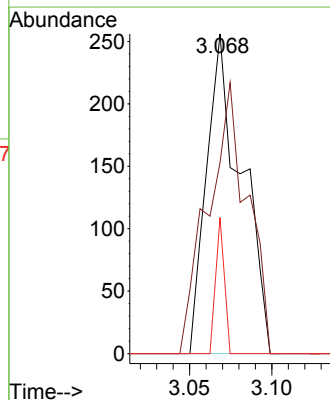
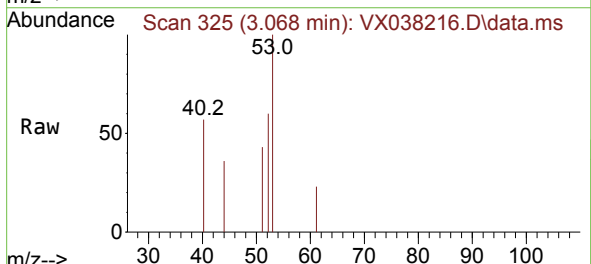
Instrument :  
MSVOA\_X  
ClientSampleId :

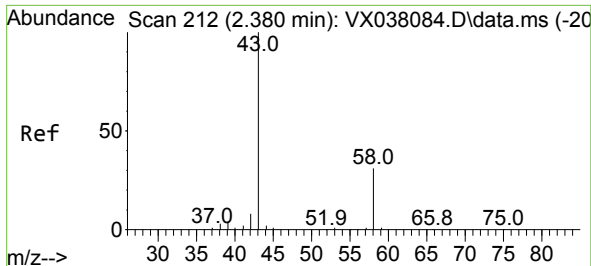
Tgt Ion: 56 Resp: 110  
Ion Ratio Lower Upper  
56 100  
55 71.8 57.1 85.7



#15  
Acrylonitrile  
Concen: 0.434 ug/l  
RT: 3.068 min Scan# 325  
Delta R.T. 0.006 min  
Lab File: VX038216.D  
Acq: 11 Oct 2023 10:04

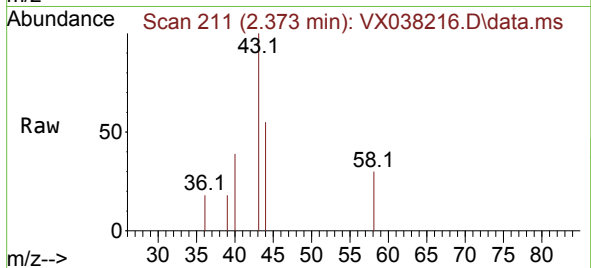
Tgt Ion: 53 Resp: 377  
Ion Ratio Lower Upper  
53 100  
52 95.5 66.0 99.0  
51 10.6 29.8 44.6#



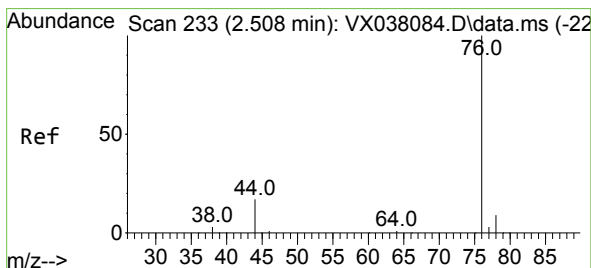
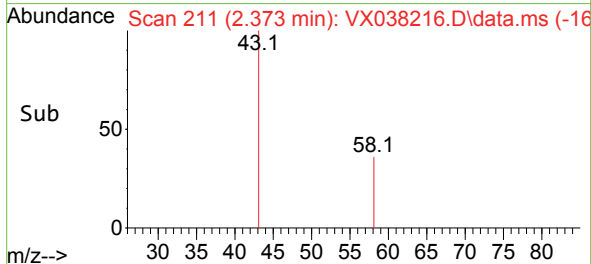
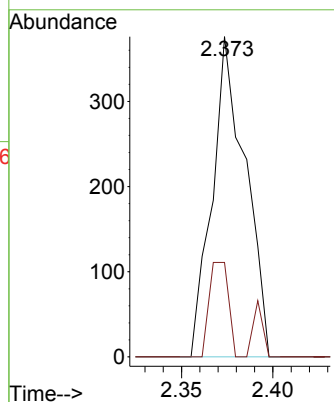


#16  
Acetone  
Concen: 0.597 ug/l  
RT: 2.373 min Scan# 211  
Delta R.T. -0.007 min  
Lab File: VX038216.D  
Acq: 11 Oct 2023 10:04

Instrument :  
MSVOA\_X  
ClientSampleId :

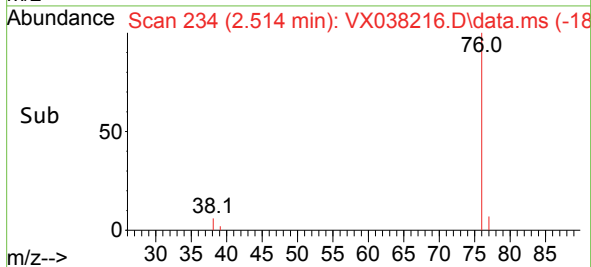
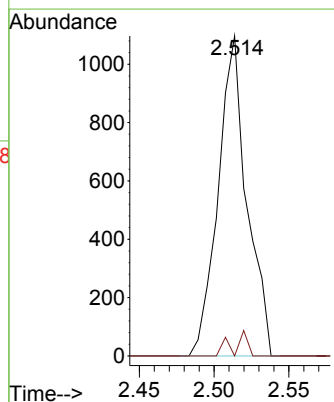
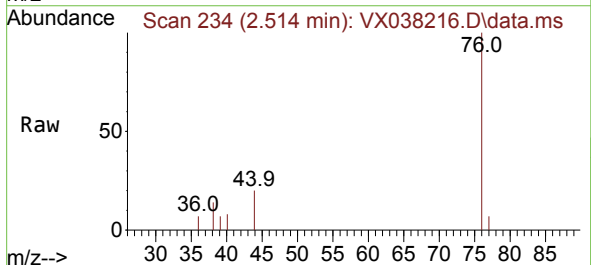


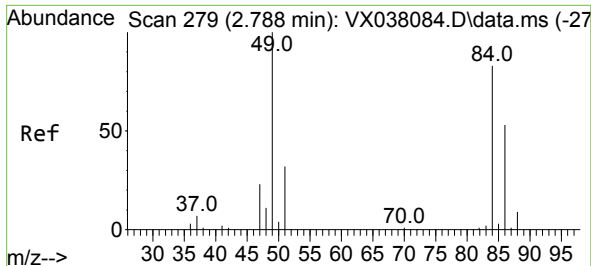
Tgt Ion: 43 Resp: 475  
Ion Ratio Lower Upper  
43 100  
58 29.5 21.9 32.9



#17  
Carbon Disulfide  
Concen: 0.468 ug/l  
RT: 2.514 min Scan# 234  
Delta R.T. 0.006 min  
Lab File: VX038216.D  
Acq: 11 Oct 2023 10:04

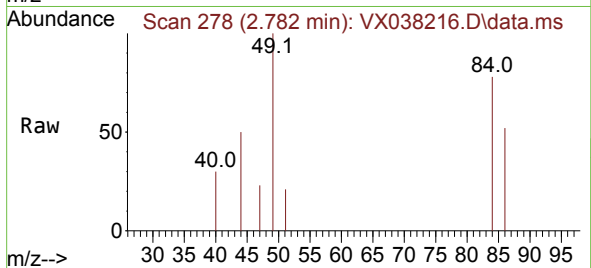
Tgt Ion: 76 Resp: 1464  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.0 10.6#





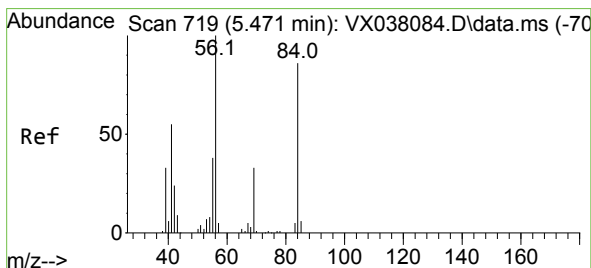
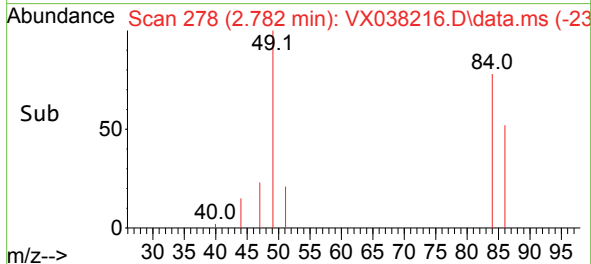
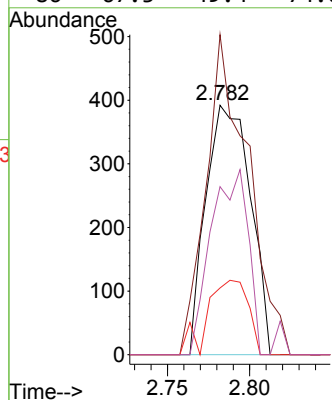
#20  
Methylene Chloride  
Concen: 0.492 ug/l  
RT: 2.782 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VX038216.D  
Acq: 11 Oct 2023 10:04

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 84 Resp: 737

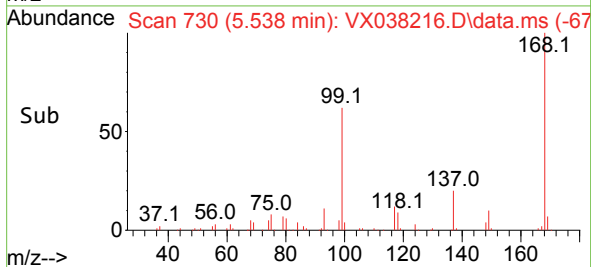
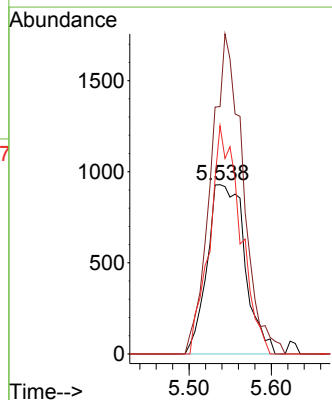
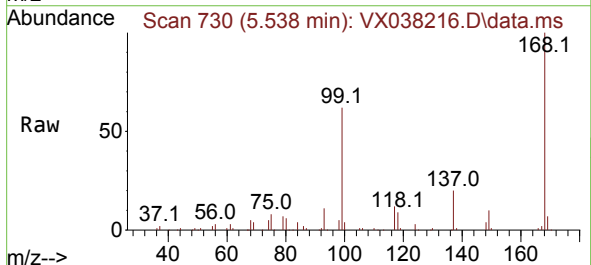
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 128.3 | 103.6 | 155.4 |
| 51  | 26.8  | 33.8  | 50.6# |
| 86  | 67.3  | 49.4  | 74.0  |

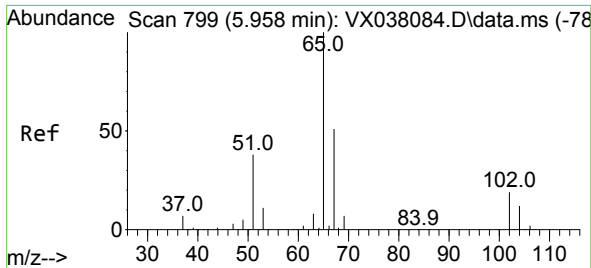


#31  
Cyclohexane  
Concen: 1.427 ug/l  
RT: 5.538 min Scan# 730  
Delta R.T. 0.067 min  
Lab File: VX038216.D  
Acq: 11 Oct 2023 10:04

Tgt Ion: 56 Resp: 2948

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 146.1 | 23.4  | 35.2# |
| 84  | 134.8 | 65.9  | 98.9# |





#33

1,2-Dichloroethane-d4

Concen: 45.622 ug/l

RT: 5.952 min Scan# 799

Delta R.T. -0.006 min

Lab File: VX038216.D

Acq: 11 Oct 2023 10:04

Instrument :

MSVOA\_X

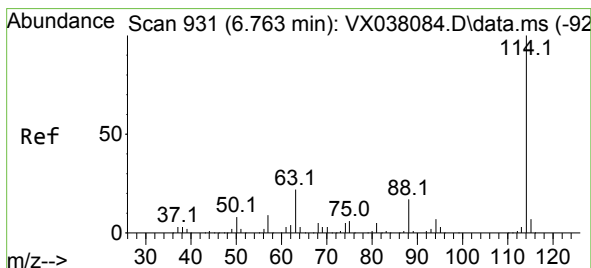
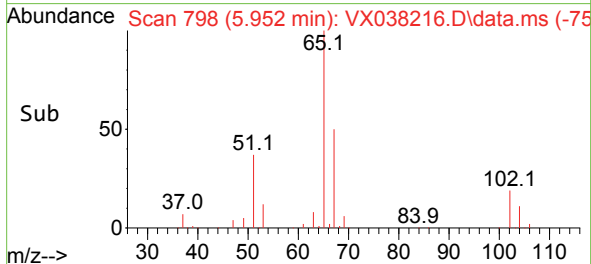
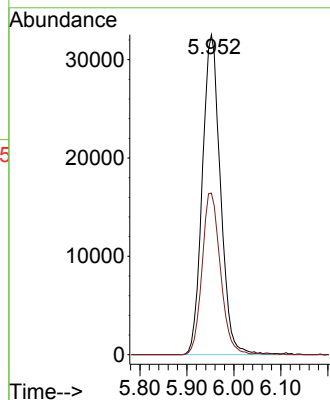
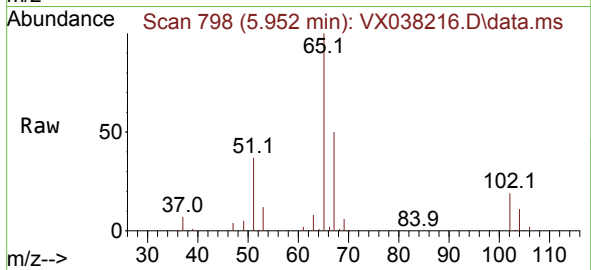
ClientSampleId :

Tgt Ion: 65 Resp: 87013

Ion Ratio Lower Upper

65 100

67 51.1 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.006 min

Lab File: VX038216.D

Acq: 11 Oct 2023 10:04

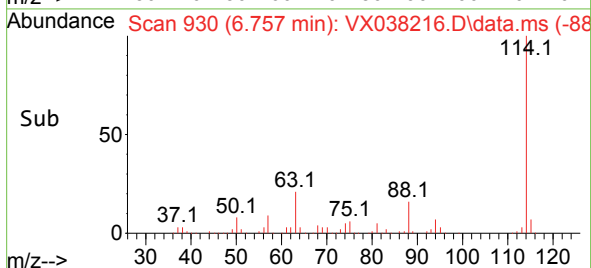
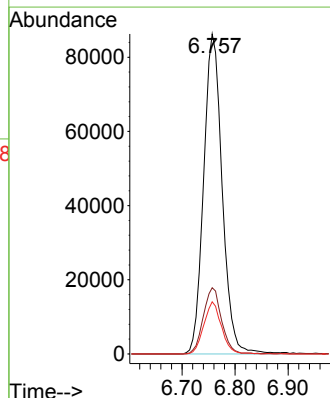
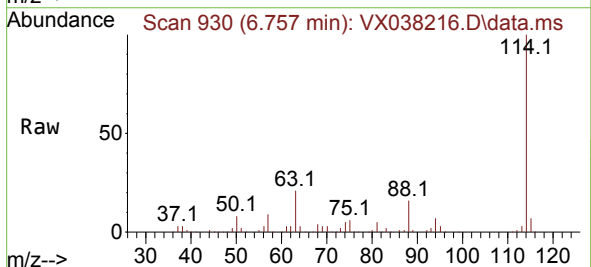
Tgt Ion: 114 Resp: 209525

Ion Ratio Lower Upper

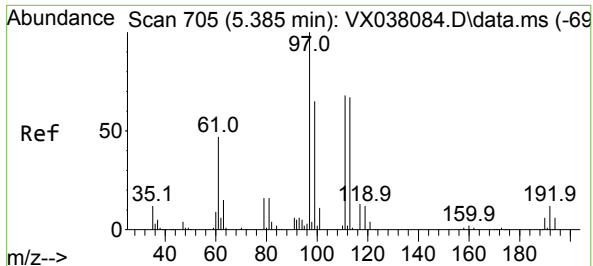
114 100

63 20.7 0.0 45.0

88 16.3 0.0 36.6

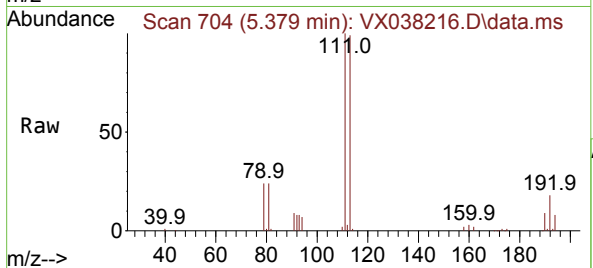




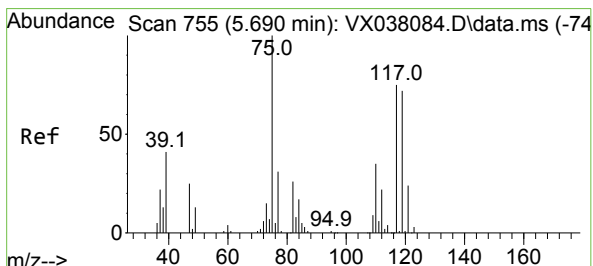
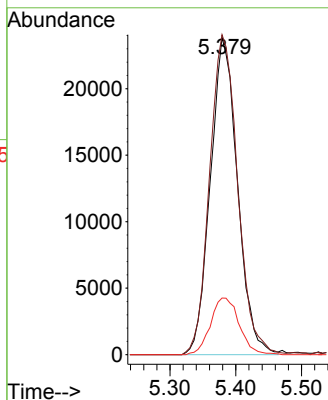
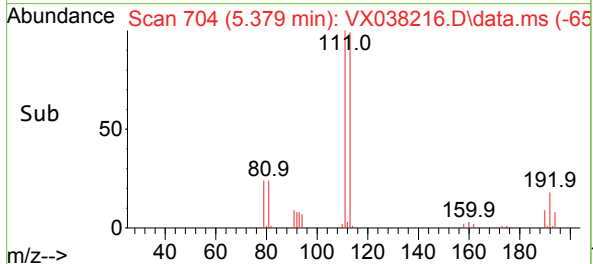


#35  
Dibromofluoromethane  
Concen: 45.298 ug/l  
RT: 5.379 min Scan# 704  
Delta R.T. -0.006 min  
Lab File: VX038216.D  
Acq: 11 Oct 2023 10:04

Instrument :  
MSVOA\_X  
ClientSampleId :

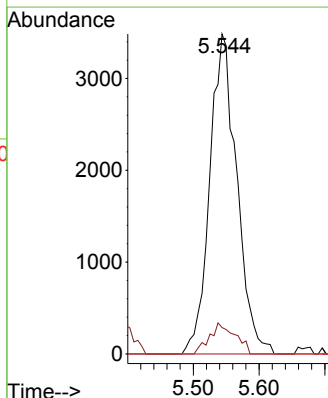
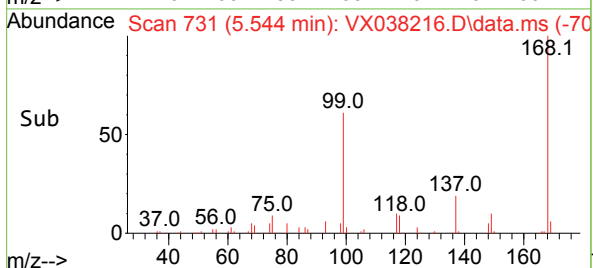
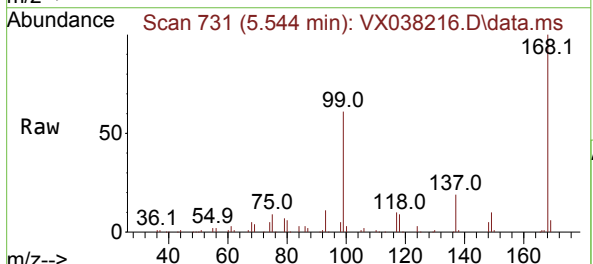


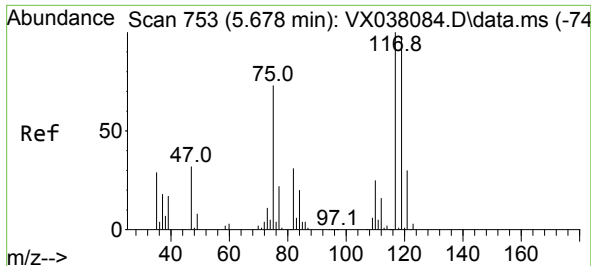
Tgt Ion:113 Resp: 68389  
Ion Ratio Lower Upper  
113 100  
111 104.3 82.9 124.3  
192 19.0 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 4.786 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. -0.146 min  
Lab File: VX038216.D  
Acq: 11 Oct 2023 10:04

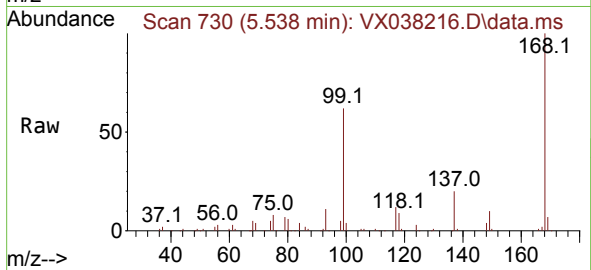
Tgt Ion: 75 Resp: 9964  
Ion Ratio Lower Upper  
75 100  
110 9.1 17.0 50.9#  
77 0.0 24.7 37.1#



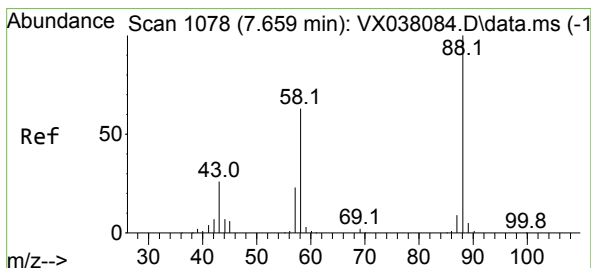
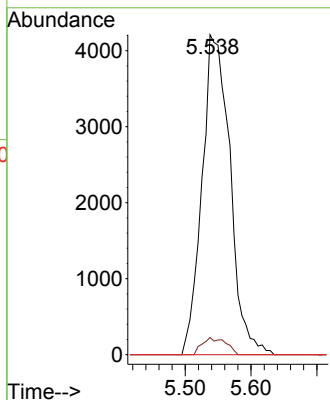
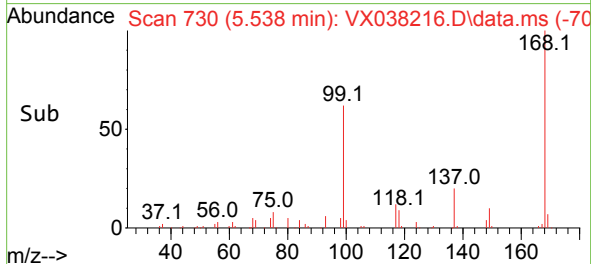


#38  
Carbon Tetrachloride  
Concen: 6.101 ug/l  
RT: 5.538 min Scan# 71  
Delta R.T. -0.140 min  
Lab File: VX038216.D  
Acq: 11 Oct 2023 10:04

Instrument :  
MSVOA\_X  
ClientSampleId :

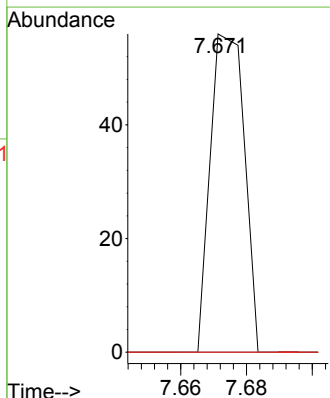
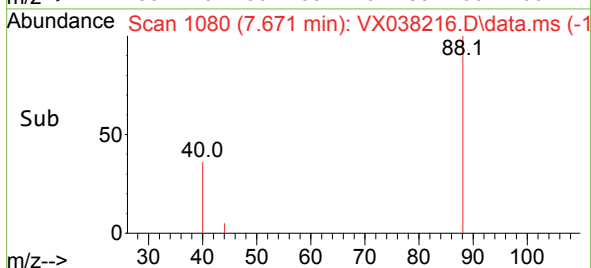
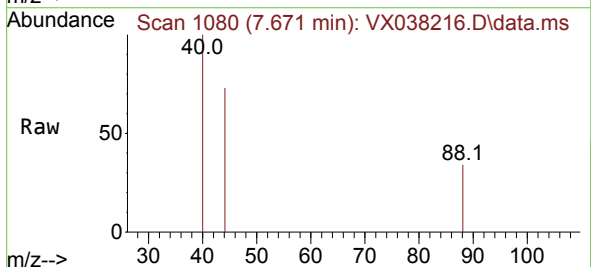


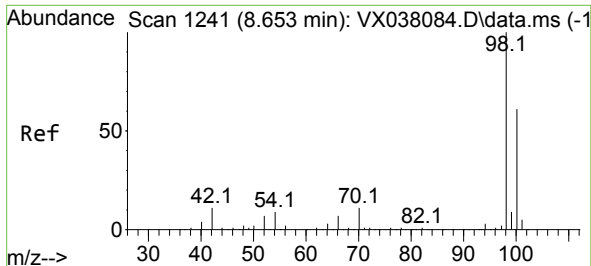
Tgt Ion:117 Resp: 12495  
Ion Ratio Lower Upper  
117 100  
119 5.3 78.2 117.2#  
121 0.0 24.4 36.6#



#49  
1,4-Dioxane  
Concen: 0.921 ug/l  
RT: 7.671 min Scan# 1080  
Delta R.T. 0.012 min  
Lab File: VX038216.D  
Acq: 11 Oct 2023 10:04

Tgt Ion: 88 Resp: 40  
Ion Ratio Lower Upper  
88 100  
43 0.0 0.0 0.0  
58 0.0 60.1 90.1#

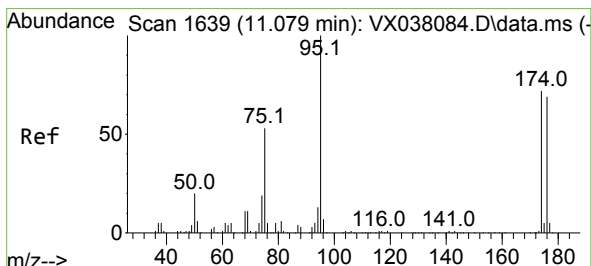
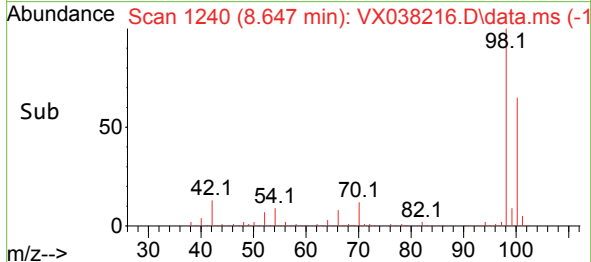
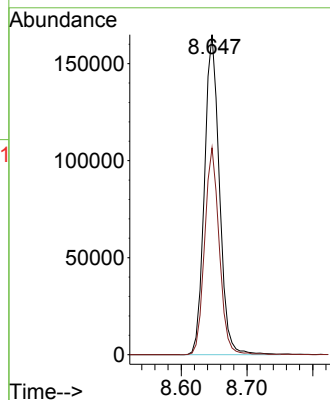
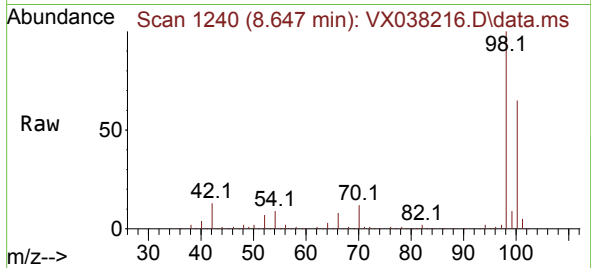




#50  
Toluene-d8  
Concen: 45.194 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VX038216.D  
Acq: 11 Oct 2023 10:04

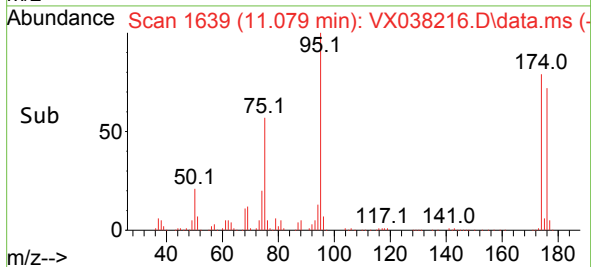
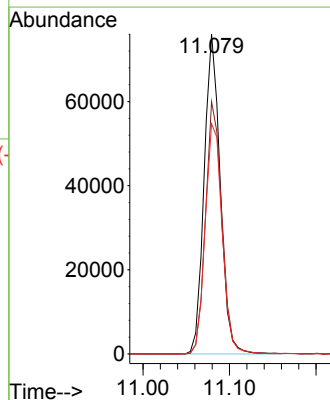
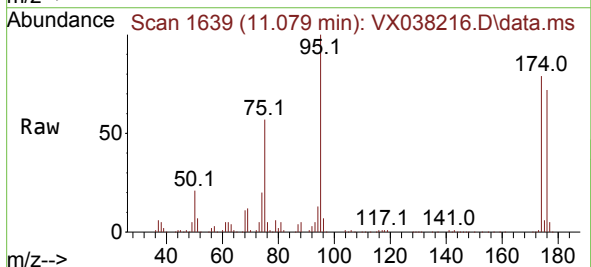
Instrument :  
MSVOA\_X  
ClientSampleId :

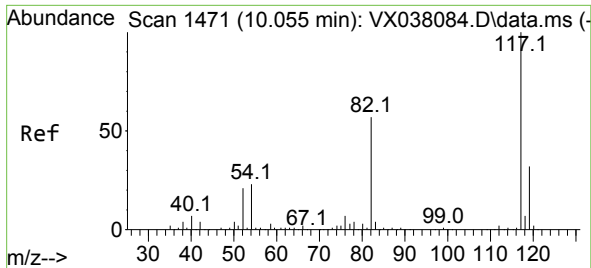
Tgt Ion: 98 Resp: 260733  
Ion Ratio Lower Upper  
98 100  
100 63.2 53.1 79.7



#62  
4-Bromofluorobenzene  
Concen: 44.760 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX038216.D  
Acq: 11 Oct 2023 10:04

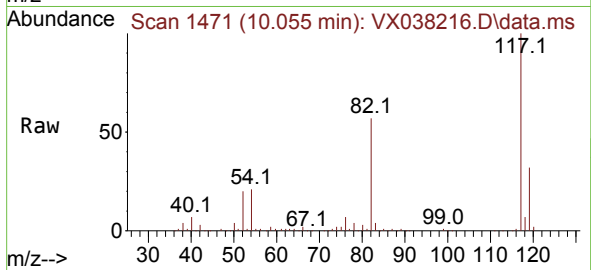
Tgt Ion: 95 Resp: 97896  
Ion Ratio Lower Upper  
95 100  
174 80.5 0.0 135.6  
176 76.3 0.0 131.0



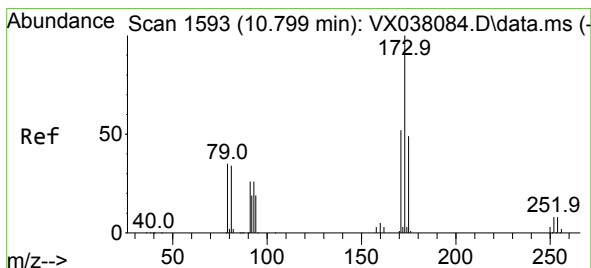
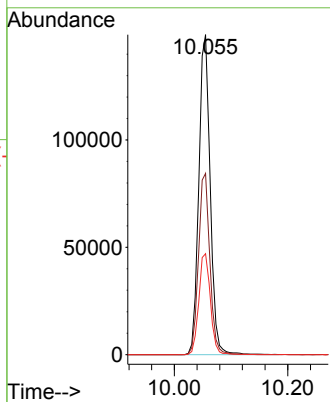
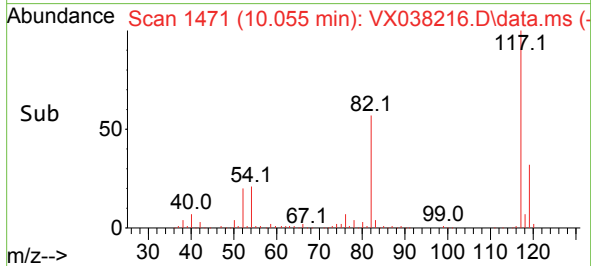


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX038216.D  
Acq: 11 Oct 2023 10:04

Instrument :  
MSVOA\_X  
ClientSampleId :

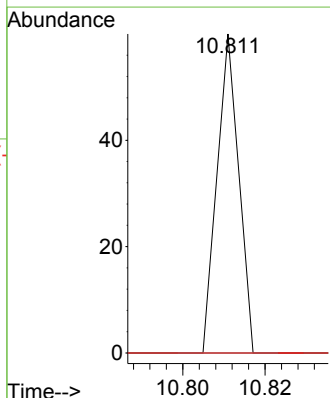
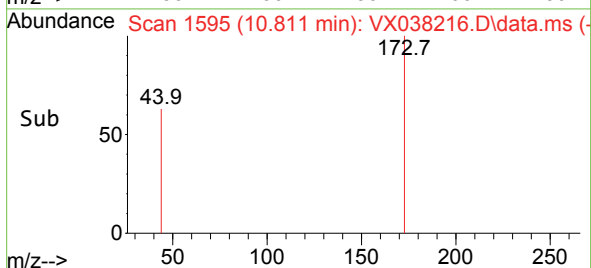
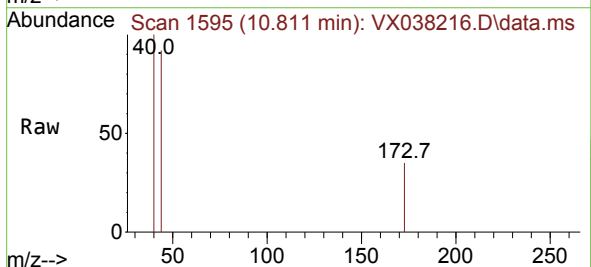


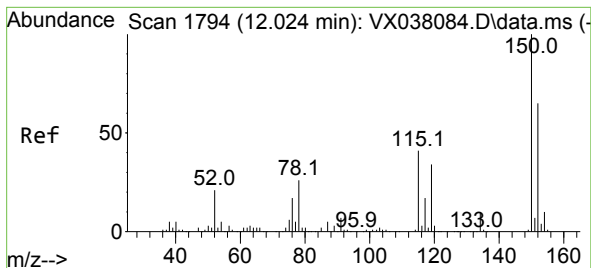
Tgt Ion:117 Resp: 207672  
Ion Ratio Lower Upper  
117 100  
82 56.6 46.2 69.4  
119 31.6 25.5 38.3



#71  
Bromoform  
Concen: 2.878 ug/l  
RT: 10.811 min Scan# 1595  
Delta R.T. 0.012 min  
Lab File: VX038216.D  
Acq: 11 Oct 2023 10:04

Tgt Ion:173 Resp: 22  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.1 72.4#  
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX038216.D

Acq: 11 Oct 2023 10:04

Instrument :

MSVOA\_X

ClientSampleId :

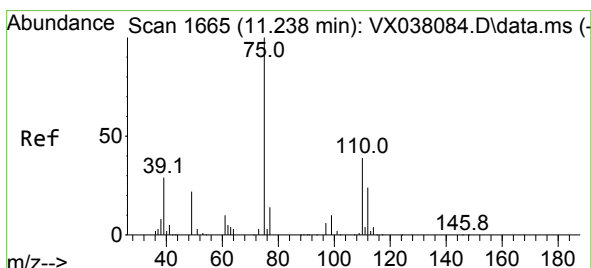
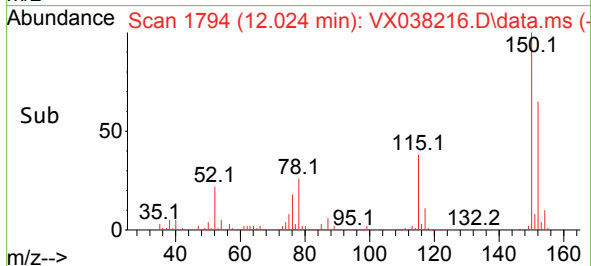
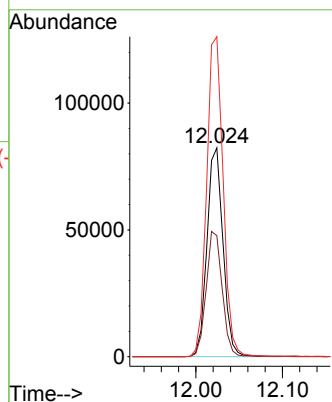
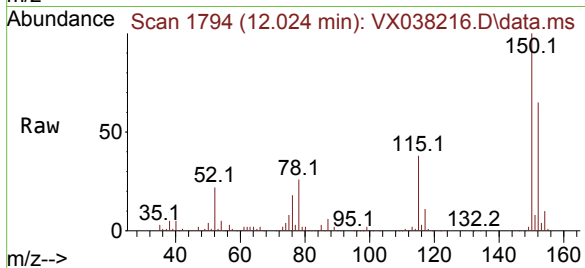
Tgt Ion:152 Resp: 106077

Ion Ratio Lower Upper

152 100

115 60.1 43.3 129.9

150 156.8 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 22.974 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX038216.D

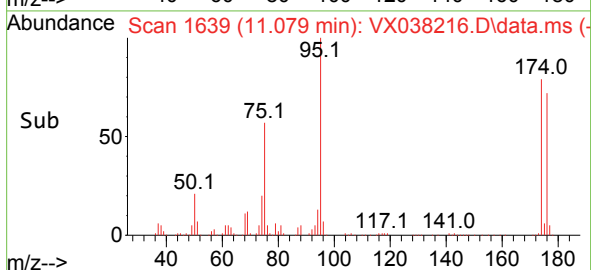
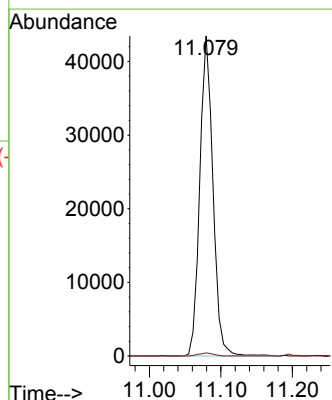
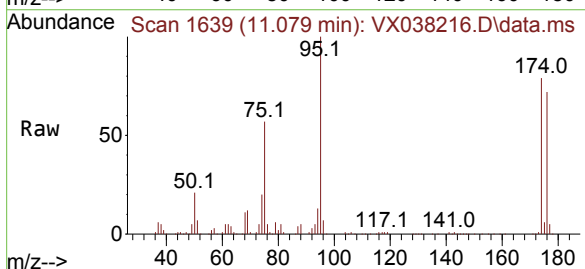
Acq: 11 Oct 2023 10:04

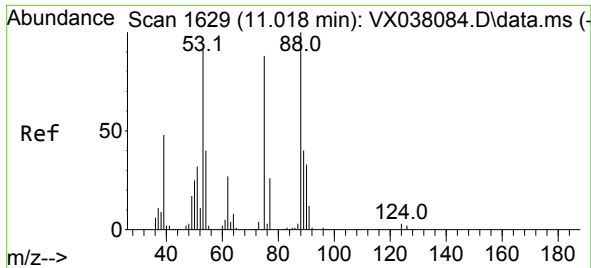
Tgt Ion: 75 Resp: 55403

Ion Ratio Lower Upper

75 100

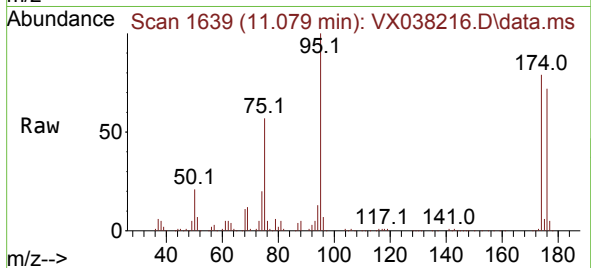
77 1.0 19.1 57.5#



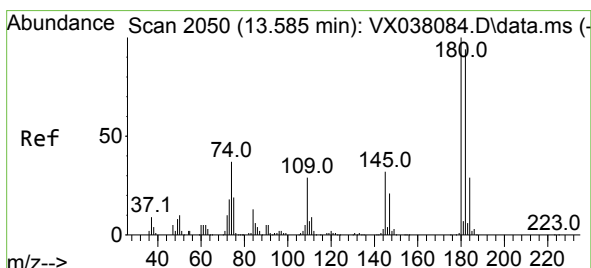
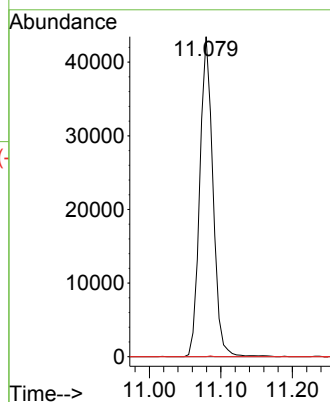
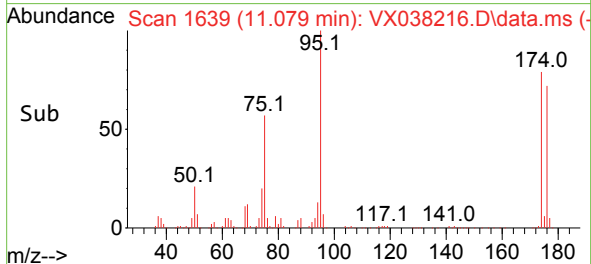


#81  
trans-1,4-Dichloro-2-butene  
Concen: 65.705 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX038216.D  
Acq: 11 Oct 2023 10:04

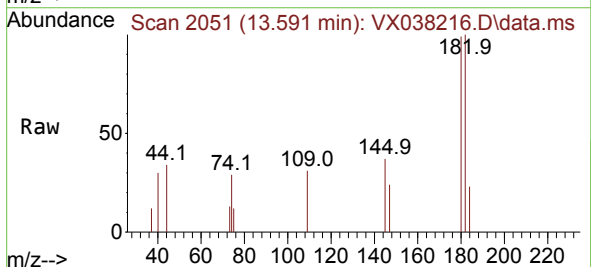
Instrument :  
MSVOA\_X  
ClientSampleId :



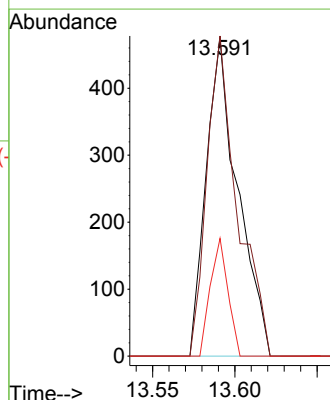
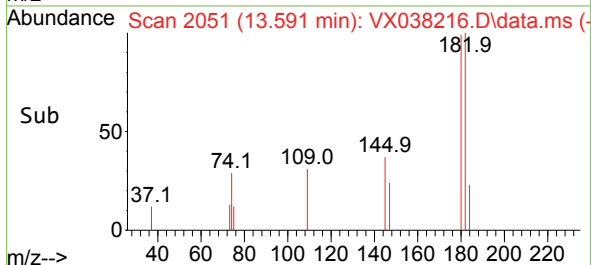
Tgt Ion: 75 Resp: 55403  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.1 36.9 55.3#

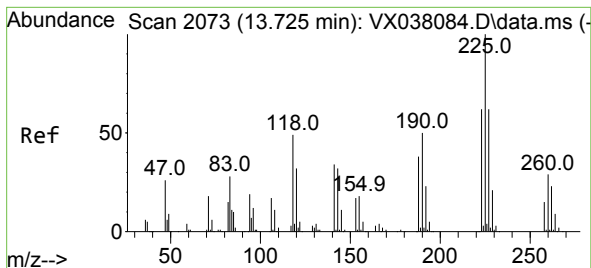


#93  
1,2,4-Trichlorobenzene  
Concen: 0.282 ug/l  
RT: 13.591 min Scan# 2051  
Delta R.T. 0.006 min  
Lab File: VX038216.D  
Acq: 11 Oct 2023 10:04



Tgt Ion: 180 Resp: 635  
Ion Ratio Lower Upper  
180 100  
182 96.5 48.3 144.8  
145 20.6 18.0 54.0





#94

Hexachlorobutadiene

Concen: 0.458 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

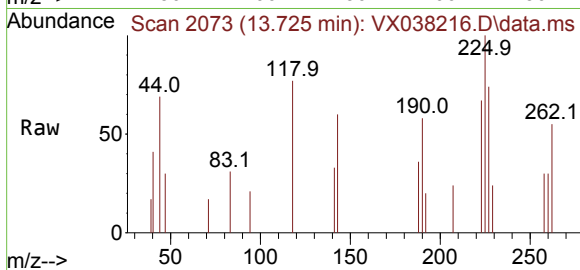
Lab File: VX038216.D

Acq: 11 Oct 2023 10:04

Instrument :

MSVOA\_X

ClientSampleId :



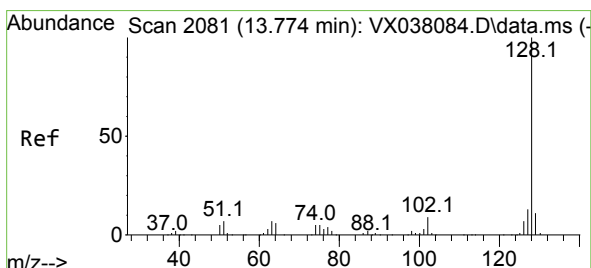
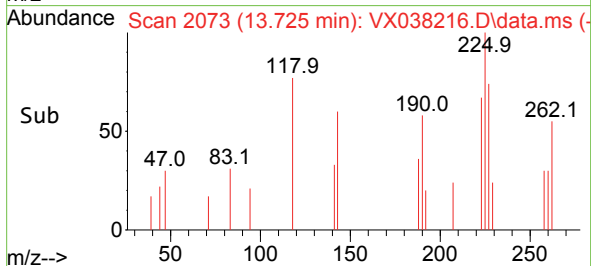
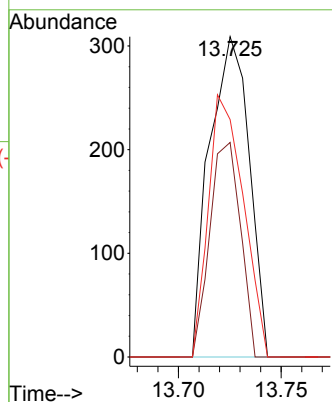
Tgt Ion:225 Resp: 415

Ion Ratio Lower Upper

225 100

223 51.8 31.1 93.2

227 72.3 32.5 97.5



#95

Naphthalene

Concen: 0.218 ug/l

RT: 13.780 min Scan# 2082

Delta R.T. 0.006 min

Lab File: VX038216.D

Acq: 11 Oct 2023 10:04

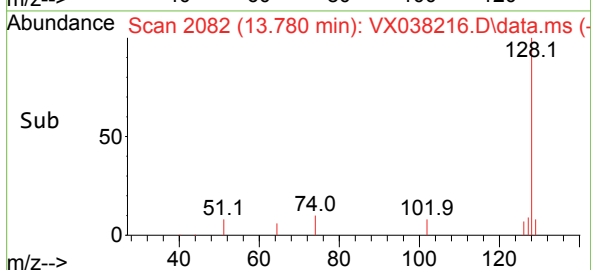
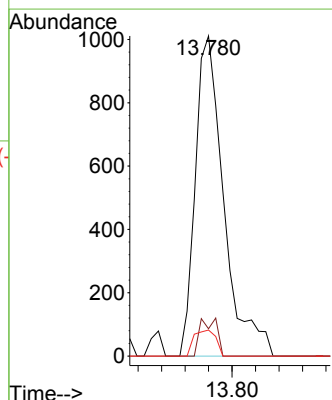
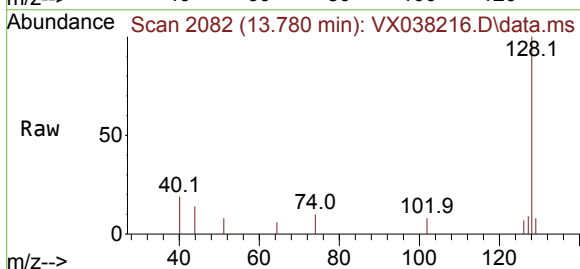
Tgt Ion:128 Resp: 1706

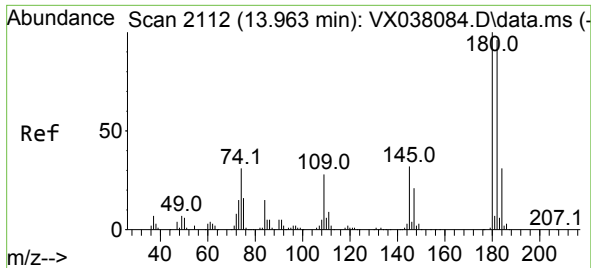
Ion Ratio Lower Upper

128 100

127 6.9 10.3 15.5#

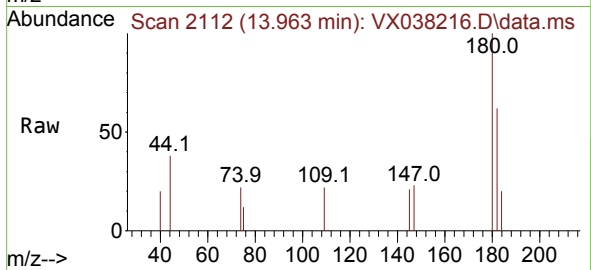
129 6.2 8.8 13.2#





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.259 ug/l  
 RT: 13.963 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VX038216.D  
 Acq: 11 Oct 2023 10:04

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion:180 Resp: 564  
 Ion Ratio Lower Upper  
 180 100  
 182 97.2 46.9 140.6  
 145 23.8 17.8 53.5

