

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX102723\  
 Data File : VX038602.D  
 Acq On : 27 Oct 2023 15:03  
 Operator : JC/MD  
 Sample : 05063-11RE  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Oct 30 01:31:06 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

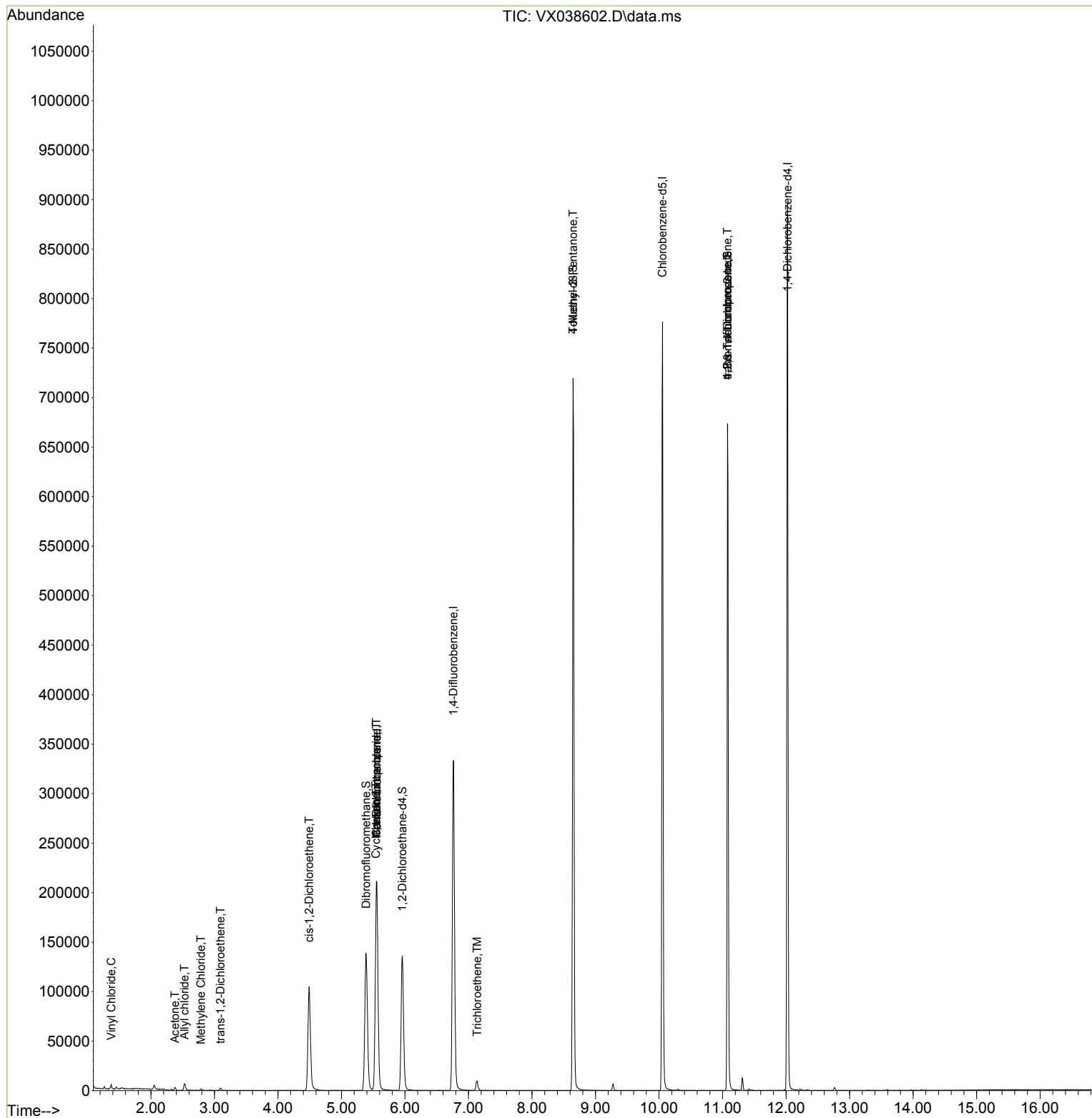
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 213870   | 50.000    | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 359916   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 368016   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 200874   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 134219   | 39.018    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 78.040%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 120670   | 46.529    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 93.060%  |
| 50) Toluene-d8                | 8.647  | 98    | 442050   | 44.606    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 89.220%# |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 179034   | 47.653    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 95.300%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 4) Vinyl Chloride             | 1.374  | 62    | 2468     | 1.058     | ug/l   | 99       |
| 5) Bromomethane               | 1.593  | 94    | 55       | Below Cal | #      | 3        |
| 6) Chloroethane               | 1.697  | 64    | 116      | Below Cal | #      | 43       |
| 11) Tert butyl alcohol        | 2.947  | 59    | 180      | Below Cal | #      | 78       |
| 14) Allyl chloride            | 2.526  | 41    | 740      | 0.211     | ug/l   | # 29     |
| 16) Acetone                   | 2.380  | 43    | 2981     | 2.076     | ug/l   | 98       |
| 20) Methylene Chloride        | 2.788  | 84    | 849      | 0.314     | ug/l   | # 86     |
| 21) trans-1,2-Dichloroethene  | 3.093  | 96    | 922      | 0.381     | ug/l   | # 77     |
| 27) cis-1,2-Dichloroethene    | 4.489  | 96    | 69753    | 24.175    | ug/l   | 77       |
| 31) Cyclohexane               | 5.544  | 56    | 3848     | 1.032     | ug/l   | # 1      |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 15016    | 4.199     | ug/l   | # 52     |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 20762    | 5.901     | ug/l   | # 15     |
| 44) Trichloroethene           | 7.135  | 130   | 3710     | 1.418     | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 1631     | 0.373     | ug/l   | # 1      |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 90607    | 19.841    | ug/l   | # 39     |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 90607    | 57.295    | ug/l   | # 5      |
| -----                         |        |       |          |           |        |          |

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

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Sample : 05063-11RE  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

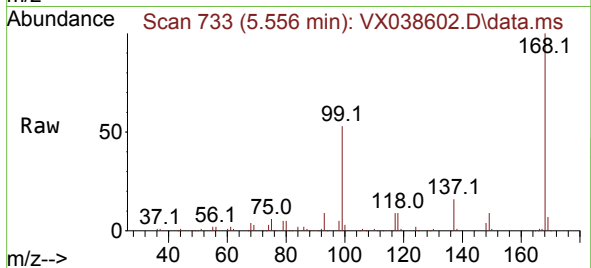
Quant Time: Oct 30 01:31:06 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 05 15:27:13 2023  
Response via : Initial Calibration



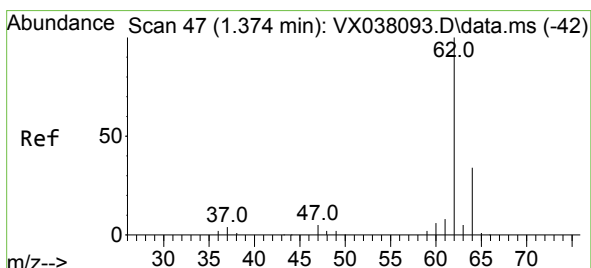
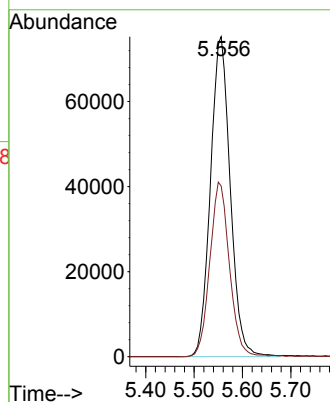
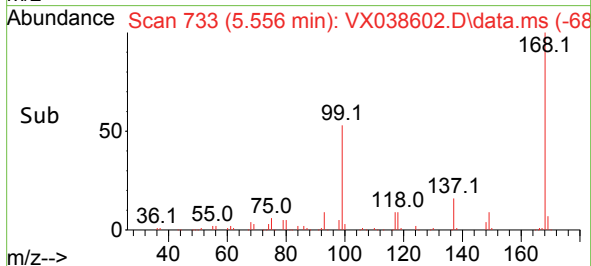


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX038602.D  
Acq: 27 Oct 2023 15:03

Instrument :  
MSVOA\_X  
ClientSampleId :

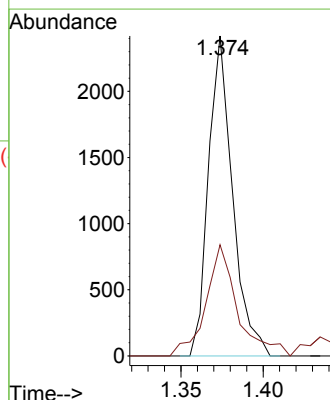
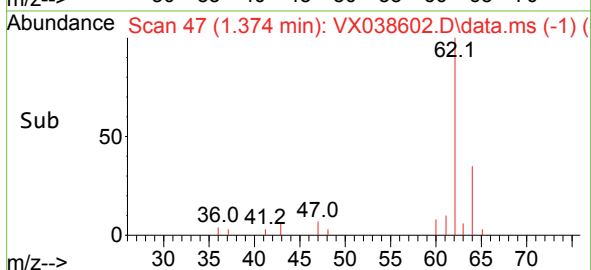
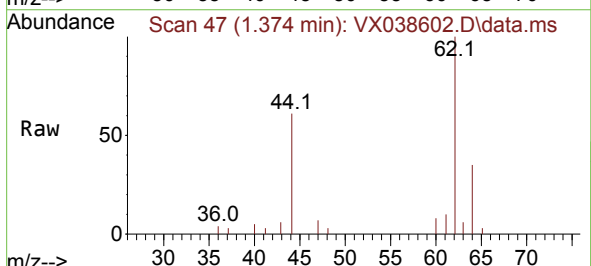


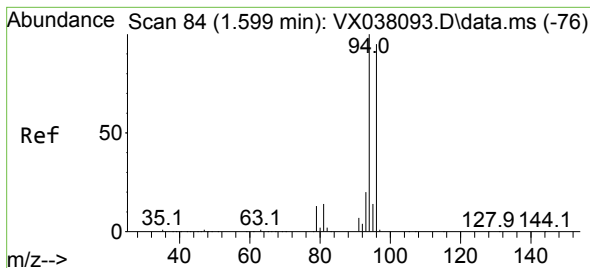
Tgt Ion:168 Resp: 213870  
Ion Ratio Lower Upper  
168 100  
99 53.4 56.6 85.0#



#4  
Vinyl Chloride  
Concen: 1.058 ug/l  
RT: 1.374 min Scan# 47  
Delta R.T. -0.000 min  
Lab File: VX038602.D  
Acq: 27 Oct 2023 15:03

Tgt Ion: 62 Resp: 2468  
Ion Ratio Lower Upper  
62 100  
64 30.9 25.4 38.0





#5

Bromomethane

Concen: Below Cal

RT: 1.593 min Scan# 81

Delta R.T. -0.006 min

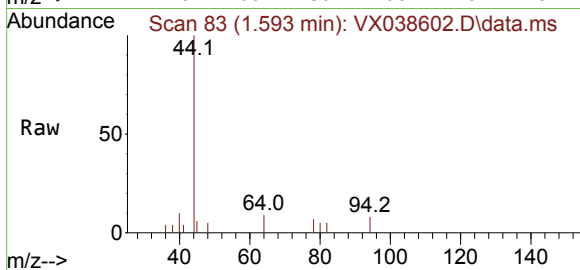
Lab File: VX038602.D

Acq: 27 Oct 2023 15:03

Instrument :

MSVOA\_X

ClientSampleId :

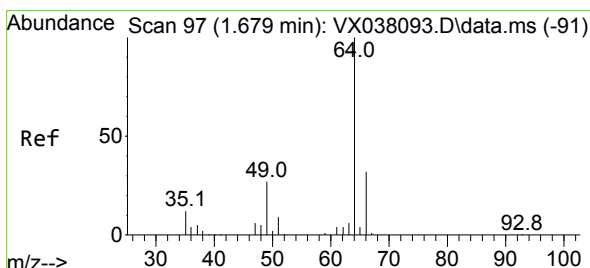
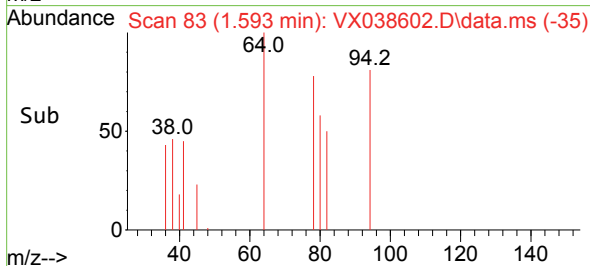
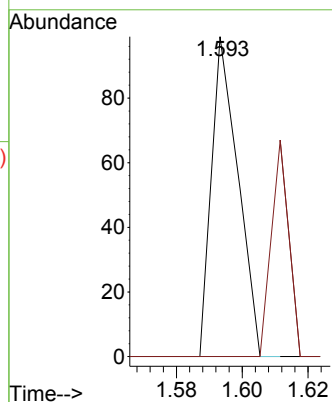


Tgt Ion: 94 Resp: 55

Ion Ratio Lower Upper

94 100

96 0.0 74.6 111.8#



#6

Chloroethane

Concen: Below Cal

RT: 1.697 min Scan# 100

Delta R.T. 0.018 min

Lab File: VX038602.D

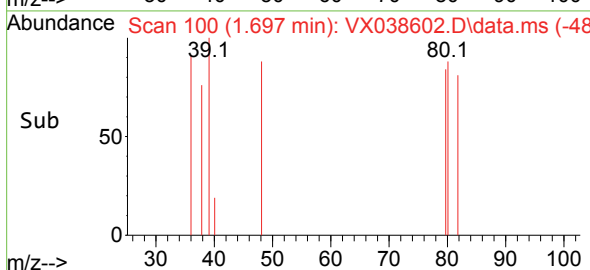
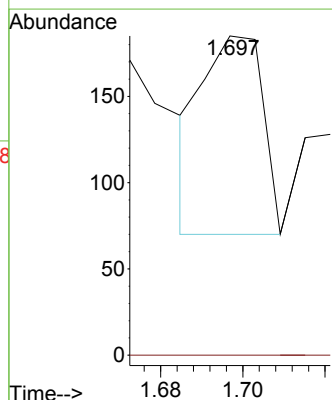
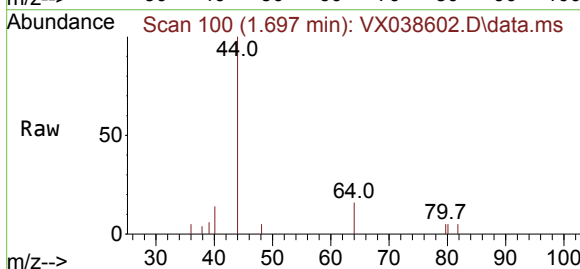
Acq: 27 Oct 2023 15:03

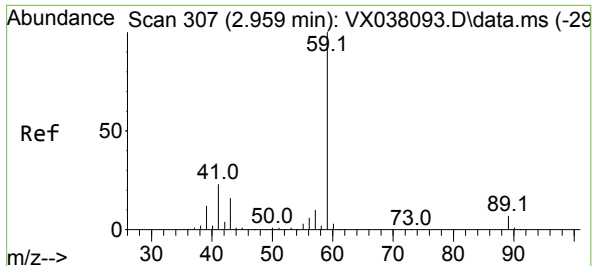
Tgt Ion: 64 Resp: 116

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# 307

Delta R.T. -0.012 min

Lab File: VX038602.D

Acq: 27 Oct 2023 15:03

Instrument :

MSVOA\_X

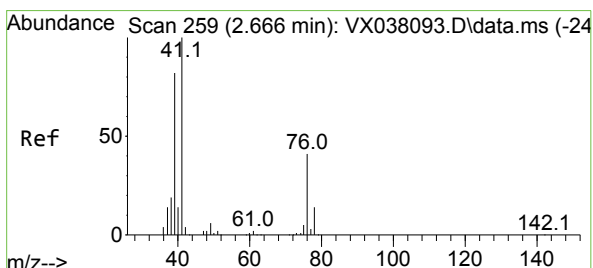
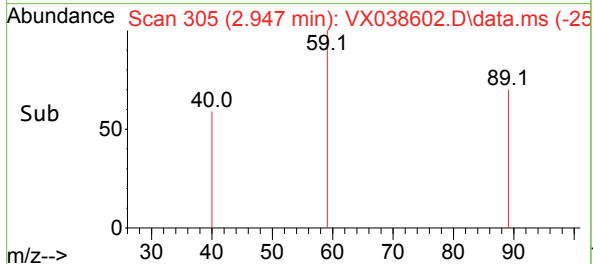
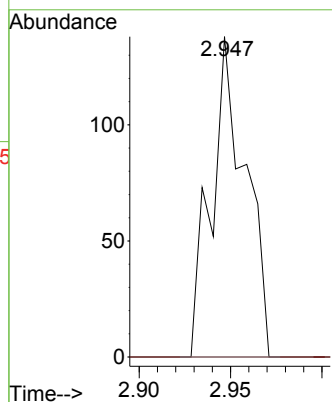
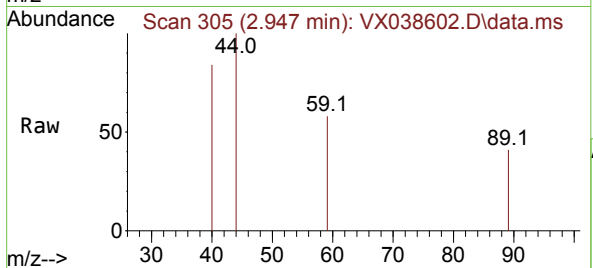
ClientSampleId :

Tgt Ion: 59 Resp: 180

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#14

Allyl chloride

Concen: 0.211 ug/l

RT: 2.526 min Scan# 236

Delta R.T. -0.134 min

Lab File: VX038602.D

Acq: 27 Oct 2023 15:03

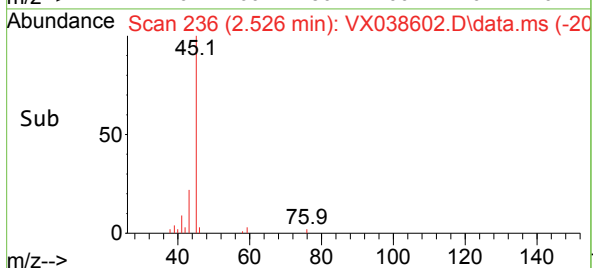
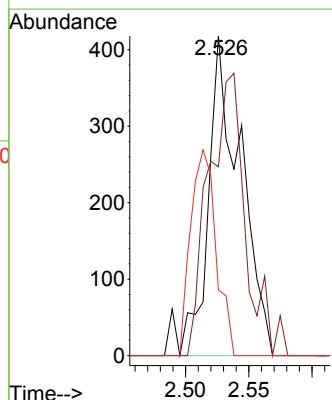
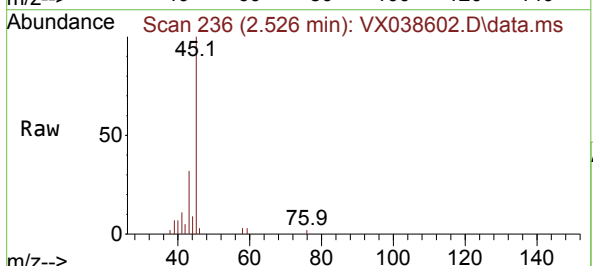
Tgt Ion: 41 Resp: 740

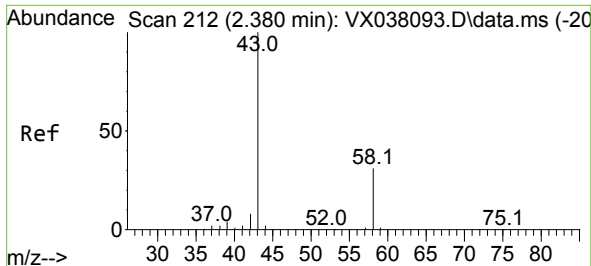
Ion Ratio Lower Upper

41 100

39 0.0 55.8 83.6#

76 50.8 24.3 36.5#

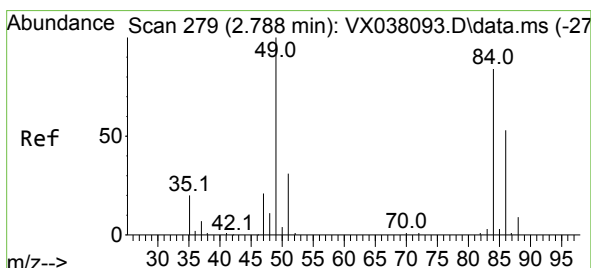
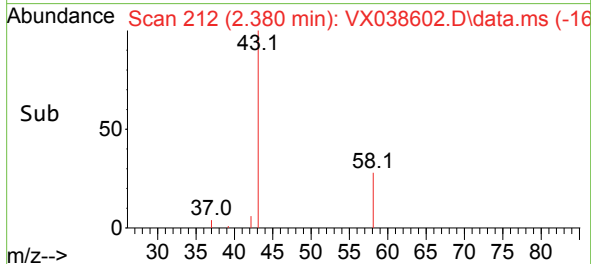
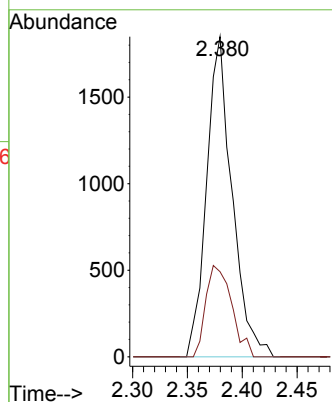
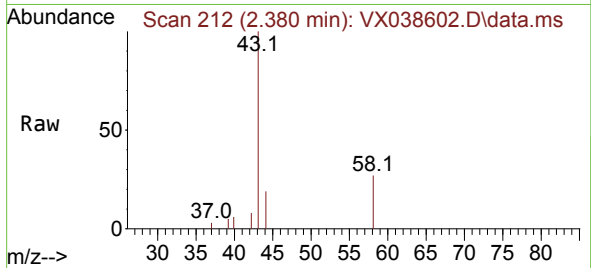




#16  
Acetone  
Concen: 2.076 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.000 min  
Lab File: VX038602.D  
Acq: 27 Oct 2023 15:03

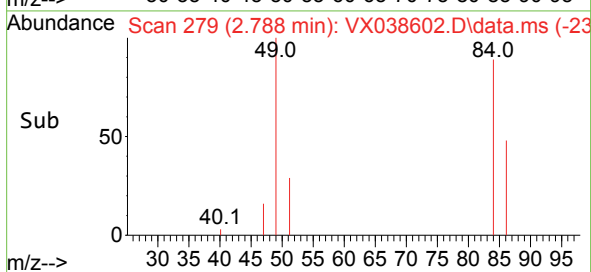
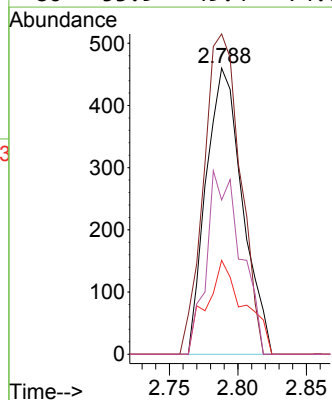
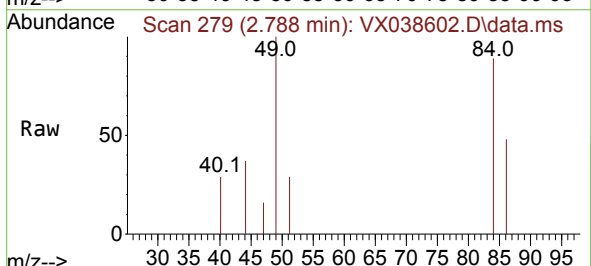
Instrument :  
MSVOA\_X  
ClientSampleId :

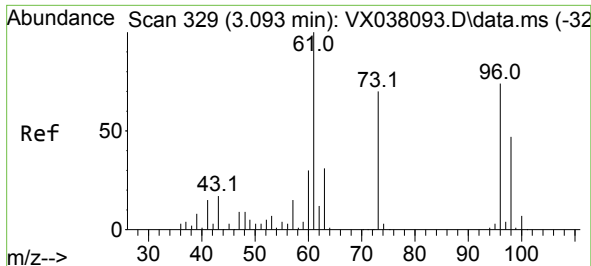
Tgt Ion: 43 Resp: 2981  
Ion Ratio Lower Upper  
43 100  
58 26.6 21.9 32.9



#20  
Methylene Chloride  
Concen: 0.314 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. 0.000 min  
Lab File: VX038602.D  
Acq: 27 Oct 2023 15:03

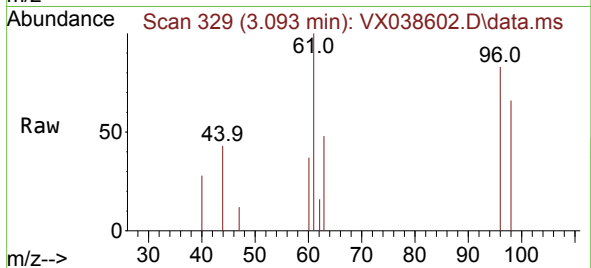
Tgt Ion: 84 Resp: 849  
Ion Ratio Lower Upper  
84 100  
49 112.0 103.6 155.4  
51 32.8 33.8 50.6#  
86 53.9 49.4 74.0



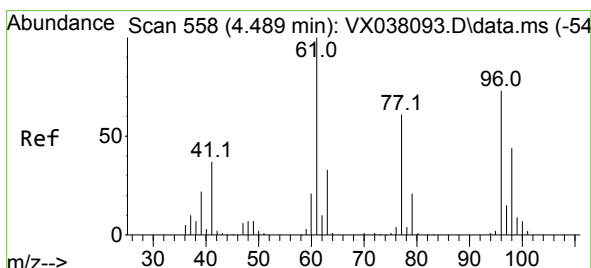
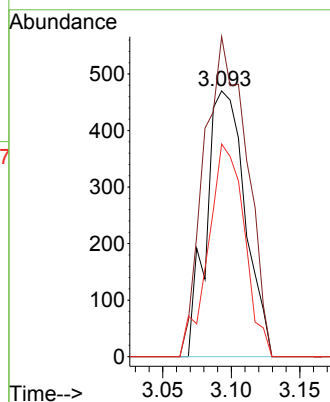
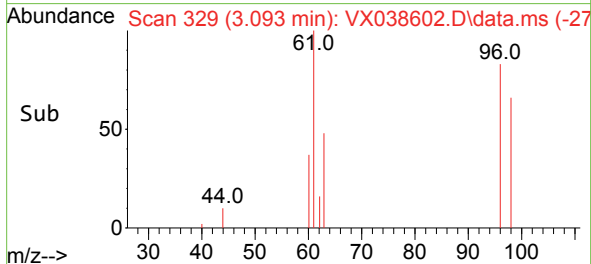


#21  
trans-1,2-Dichloroethene  
Concen: 0.381 ug/l  
RT: 3.093 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VX038602.D  
Acq: 27 Oct 2023 15:03

Instrument :  
MSVOA\_X  
ClientSampleId :

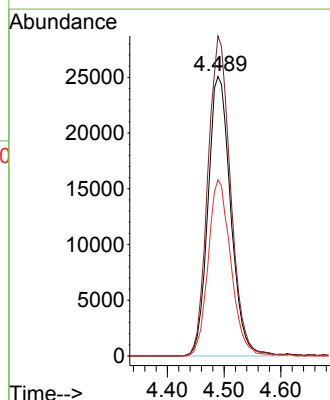
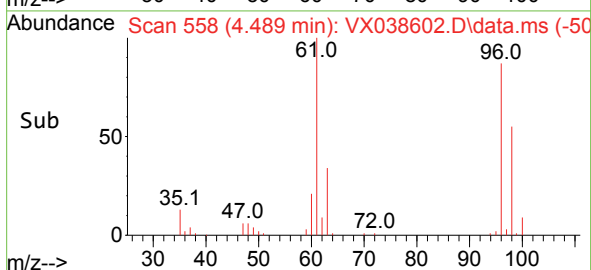
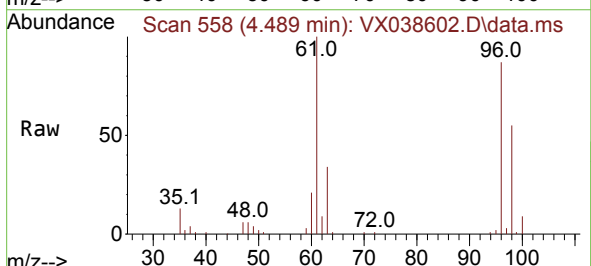


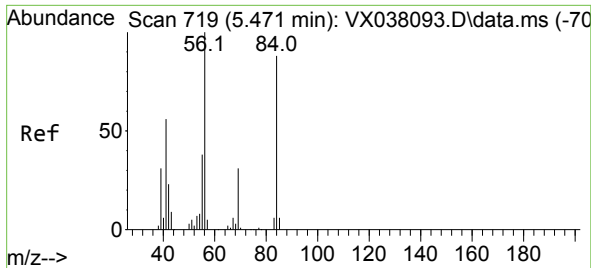
Tgt Ion: 96 Resp: 922  
Ion Ratio Lower Upper  
96 100  
61 120.4 119.2 178.8  
98 80.0 48.7 73.1#



#27  
cis-1,2-Dichloroethene  
Concen: 24.175 ug/l  
RT: 4.489 min Scan# 558  
Delta R.T. 0.000 min  
Lab File: VX038602.D  
Acq: 27 Oct 2023 15:03

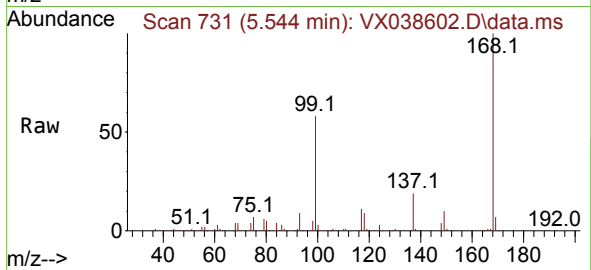
Tgt Ion: 96 Resp: 69753  
Ion Ratio Lower Upper  
96 100  
61 114.2 0.0 312.2  
98 63.1 0.0 129.0



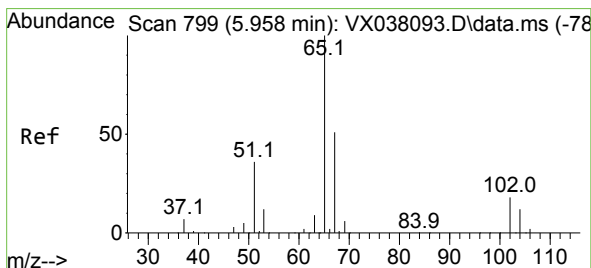
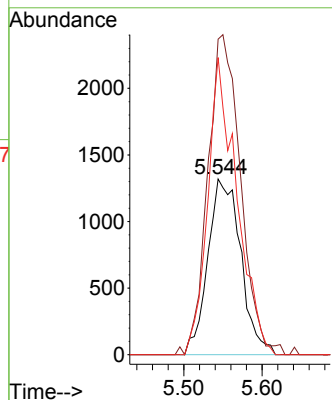
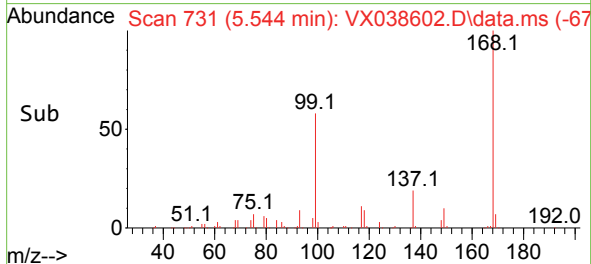


#31  
Cyclohexane  
Concen: 1.032 ug/l  
RT: 5.544 min Scan# 719  
Delta R.T. 0.073 min  
Lab File: VX038602.D  
Acq: 27 Oct 2023 15:03

Instrument :  
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ClientSampleId :

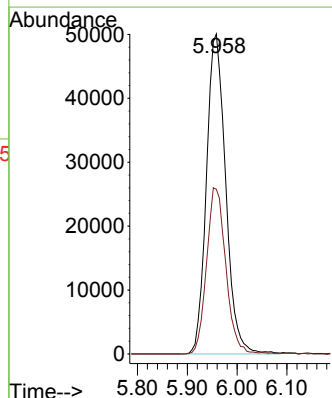
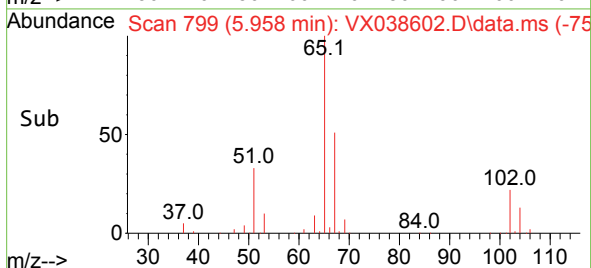
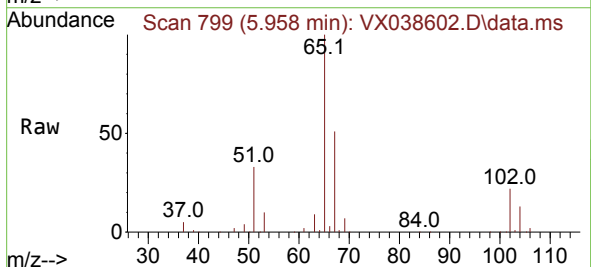


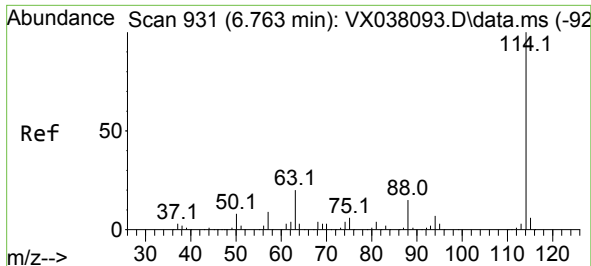
Tgt Ion: 56 Resp: 3848  
Ion Ratio Lower Upper  
56 100  
69 175.1 23.4 35.2#  
84 169.1 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 39.018 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX038602.D  
Acq: 27 Oct 2023 15:03

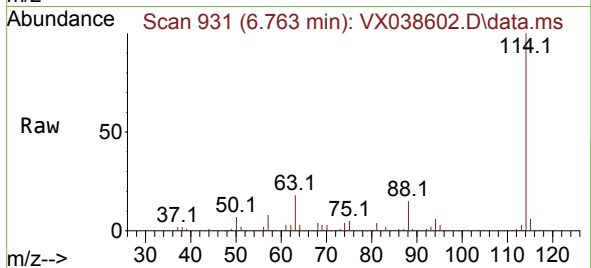
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Ion Ratio Lower Upper  
65 100  
67 52.0 0.0 100.2



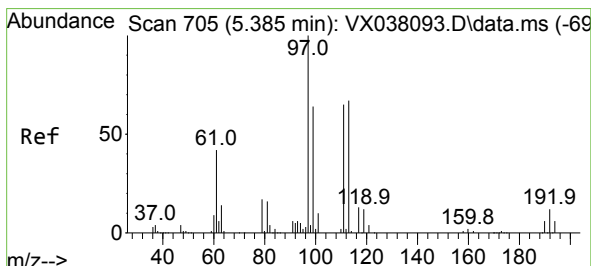
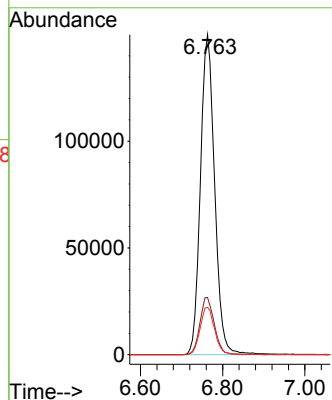
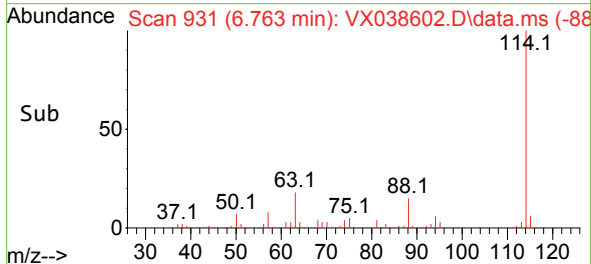


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VX038602.D  
Acq: 27 Oct 2023 15:03

Instrument :  
MSVOA\_X  
ClientSampleId :

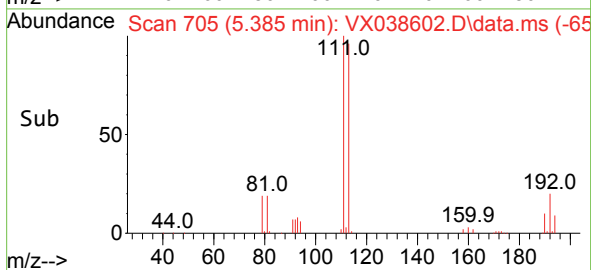
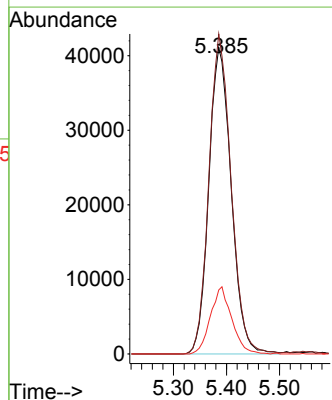
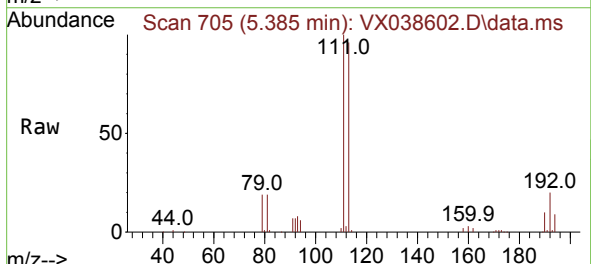


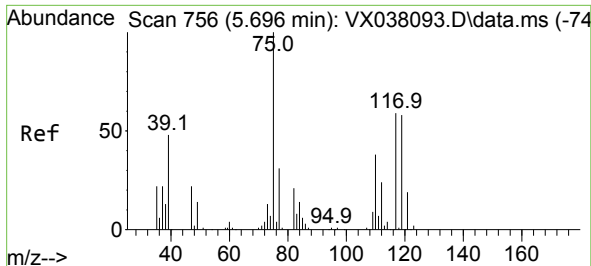
Tgt Ion:114 Resp: 359916  
Ion Ratio Lower Upper  
114 100  
63 17.8 0.0 45.0  
88 14.8 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 46.529 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX038602.D  
Acq: 27 Oct 2023 15:03

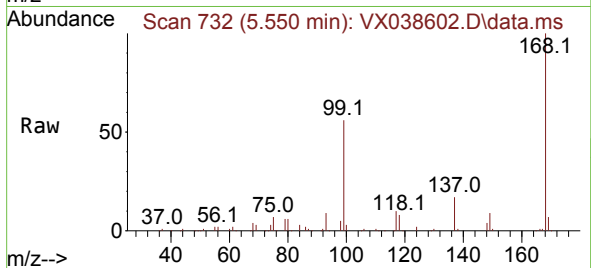
Tgt Ion:113 Resp: 120670  
Ion Ratio Lower Upper  
113 100  
111 103.4 82.9 124.3  
192 20.9 13.3 19.9#



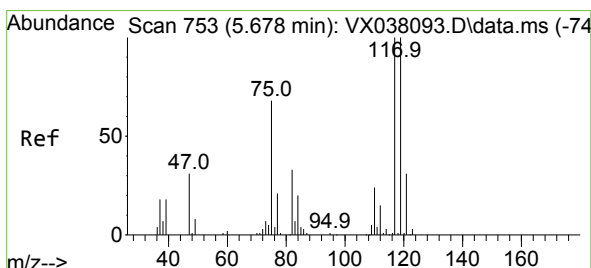
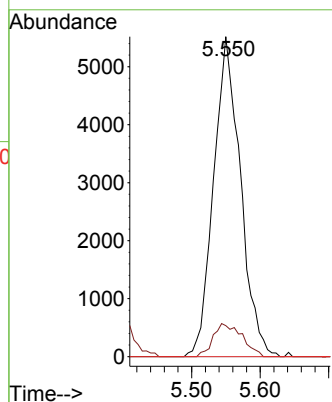
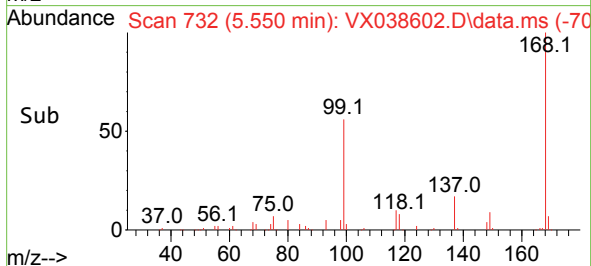


#36  
 1,1-Dichloropropene  
 Concen: 4.199 ug/l  
 RT: 5.550 min Scan# 712  
 Delta R.T. -0.140 min  
 Lab File: VX038602.D  
 Acq: 27 Oct 2023 15:03

Instrument :  
 MSVOA\_X  
 ClientSampleId :

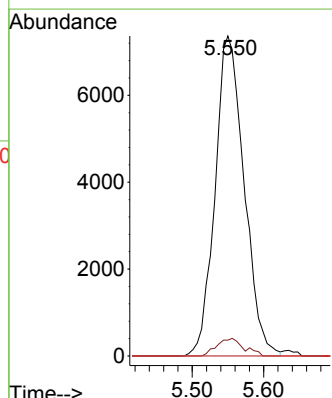
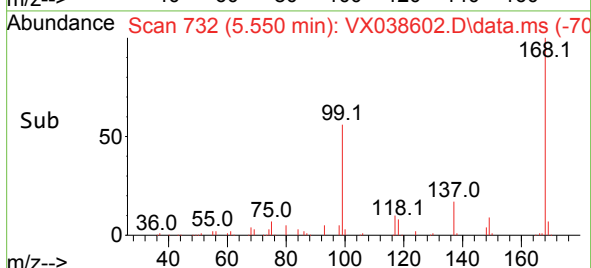
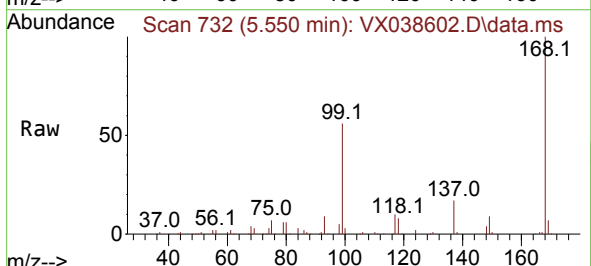


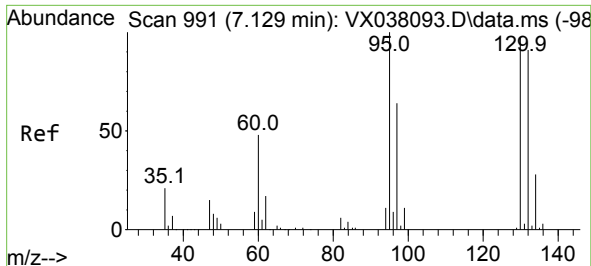
Tgt Ion: 75 Resp: 15016  
 Ion Ratio Lower Upper  
 75 100  
 110 11.1 17.0 50.9#  
 77 0.0 24.7 37.1#



#38  
 Carbon Tetrachloride  
 Concen: 5.901 ug/l  
 RT: 5.550 min Scan# 732  
 Delta R.T. -0.128 min  
 Lab File: VX038602.D  
 Acq: 27 Oct 2023 15:03

Tgt Ion: 117 Resp: 20762  
 Ion Ratio Lower Upper  
 117 100  
 119 5.0 78.2 117.2#  
 121 0.0 24.4 36.6#

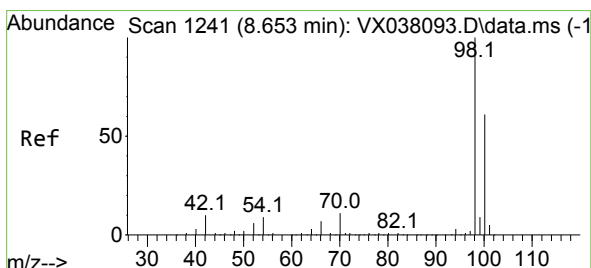
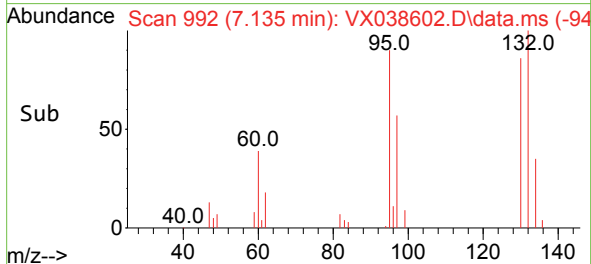
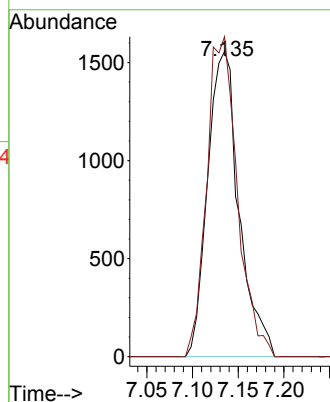
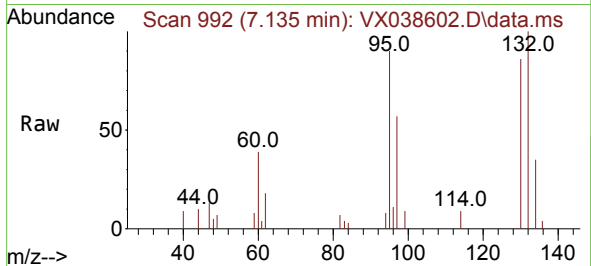




#44  
Trichloroethene  
Concen: 1.418 ug/l  
RT: 7.135 min Scan# 991  
Delta R.T. 0.006 min  
Lab File: VX038602.D  
Acq: 27 Oct 2023 15:03

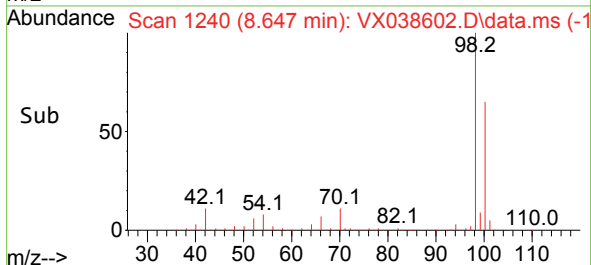
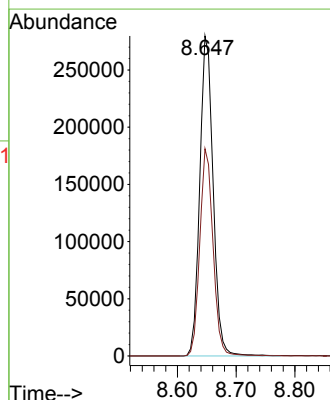
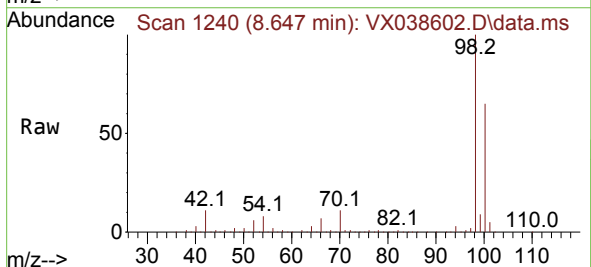
Instrument :  
MSVOA\_X  
ClientSampleId :

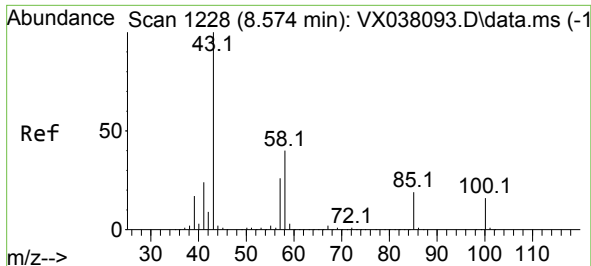
Tgt Ion:130 Resp: 3710  
Ion Ratio Lower Upper  
130 100  
95 104.9 0.0 204.4



#50  
Toluene-d8  
Concen: 44.606 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.006 min  
Lab File: VX038602.D  
Acq: 27 Oct 2023 15:03

Tgt Ion: 98 Resp: 442050  
Ion Ratio Lower Upper  
98 100  
100 64.3 53.1 79.7

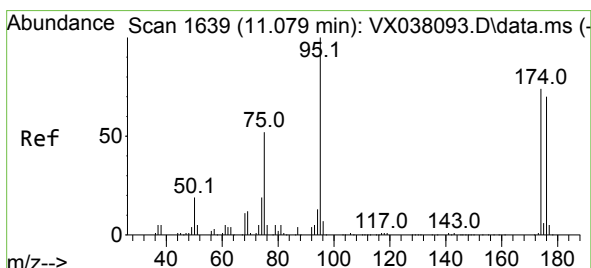
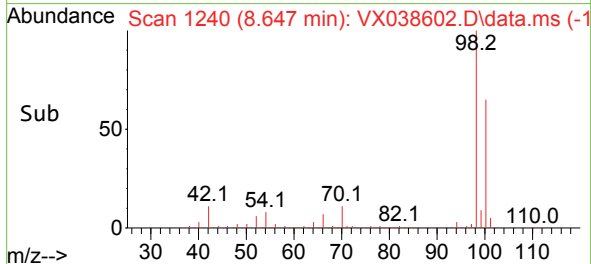
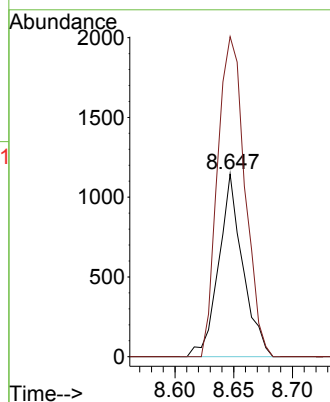
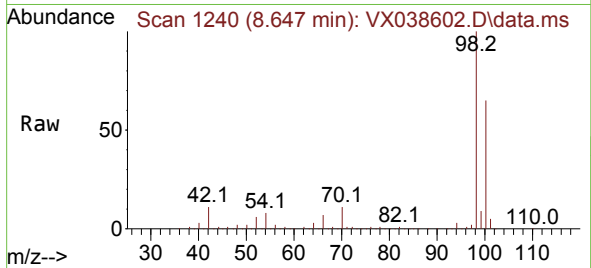




#51  
4-Methyl-2-Pentanone  
Concen: 0.373 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.073 min  
Lab File: VX038602.D  
Acq: 27 Oct 2023 15:03

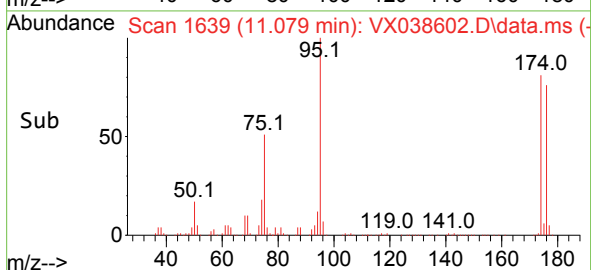
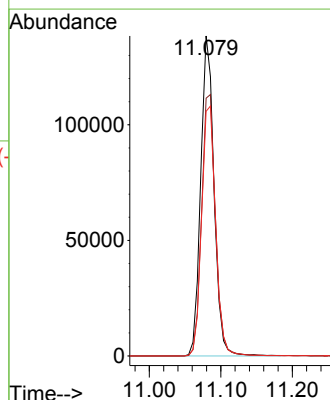
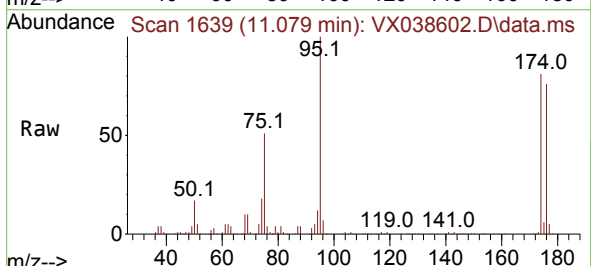
Instrument :  
MSVOA\_X  
ClientSampleId :

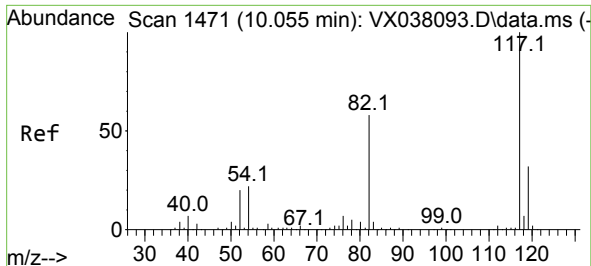
Tgt Ion: 43 Resp: 1631  
Ion Ratio Lower Upper  
43 100  
58 199.3 30.4 45.6#



#62  
4-Bromofluorobenzene  
Concen: 47.653 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX038602.D  
Acq: 27 Oct 2023 15:03

Tgt Ion: 95 Resp: 179034  
Ion Ratio Lower Upper  
95 100  
174 85.3 0.0 135.6  
176 82.5 0.0 131.0

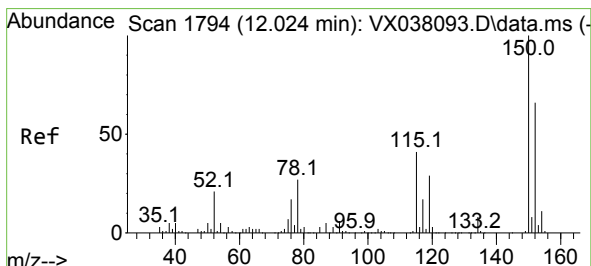
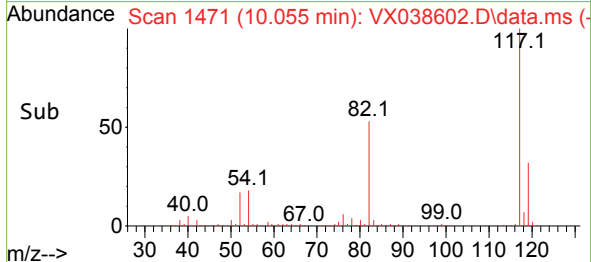
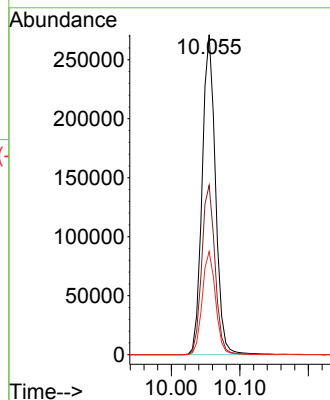
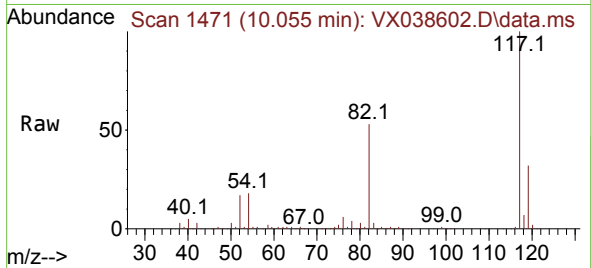




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX038602.D  
Acq: 27 Oct 2023 15:03

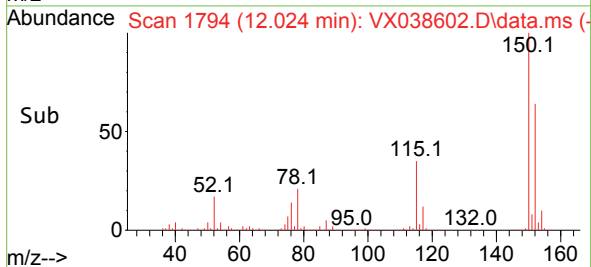
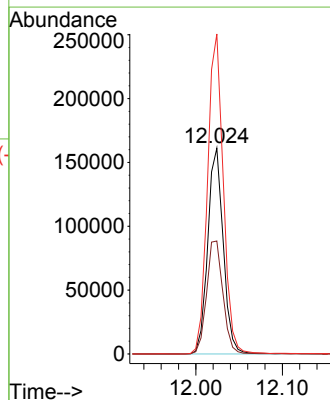
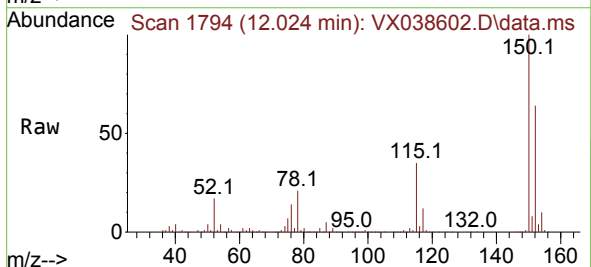
Instrument :  
MSVOA\_X  
ClientSampleId :

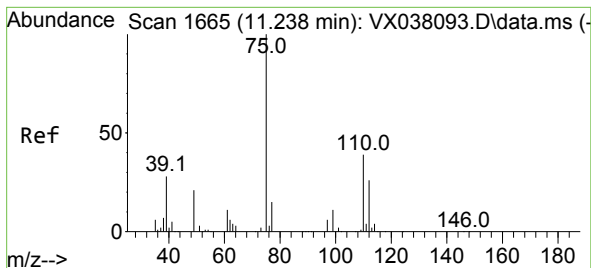
Tgt Ion:117 Resp: 368016  
Ion Ratio Lower Upper  
117 100  
82 53.0 46.2 69.4  
119 32.2 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX038602.D  
Acq: 27 Oct 2023 15:03

Tgt Ion:152 Resp: 200874  
Ion Ratio Lower Upper  
152 100  
115 57.9 43.3 129.9  
150 157.7 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 19.841 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX038602.D

Acq: 27 Oct 2023 15:03

Instrument :

MSVOA\_X

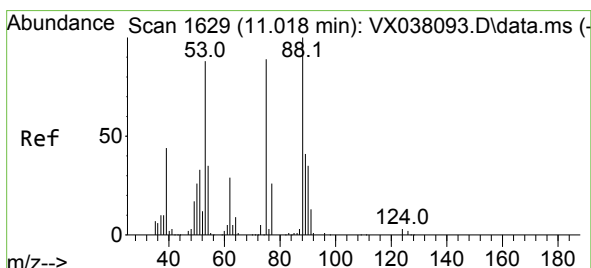
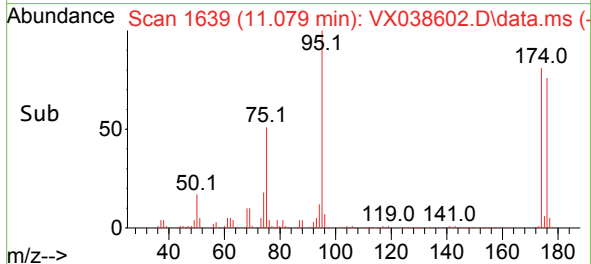
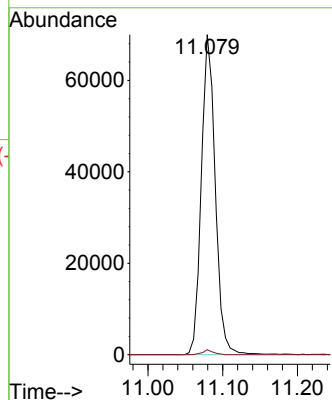
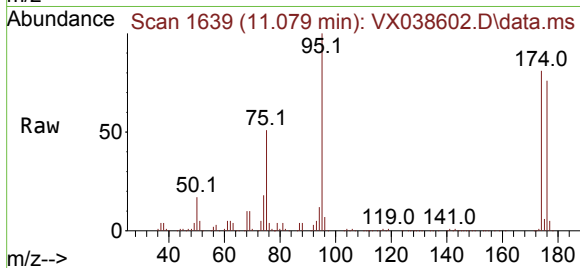
ClientSampleId :

Tgt Ion: 75 Resp: 90607

Ion Ratio Lower Upper

75 100

77 1.2 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.295 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX038602.D

Acq: 27 Oct 2023 15:03

Tgt Ion: 75 Resp: 90607

Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#

