

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX102523\  
 Data File : VX038472.D  
 Acq On : 25 Oct 2023 12:15  
 Operator : JC/MD  
 Sample : 05007-17DL 20X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Oct 26 04:02:45 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

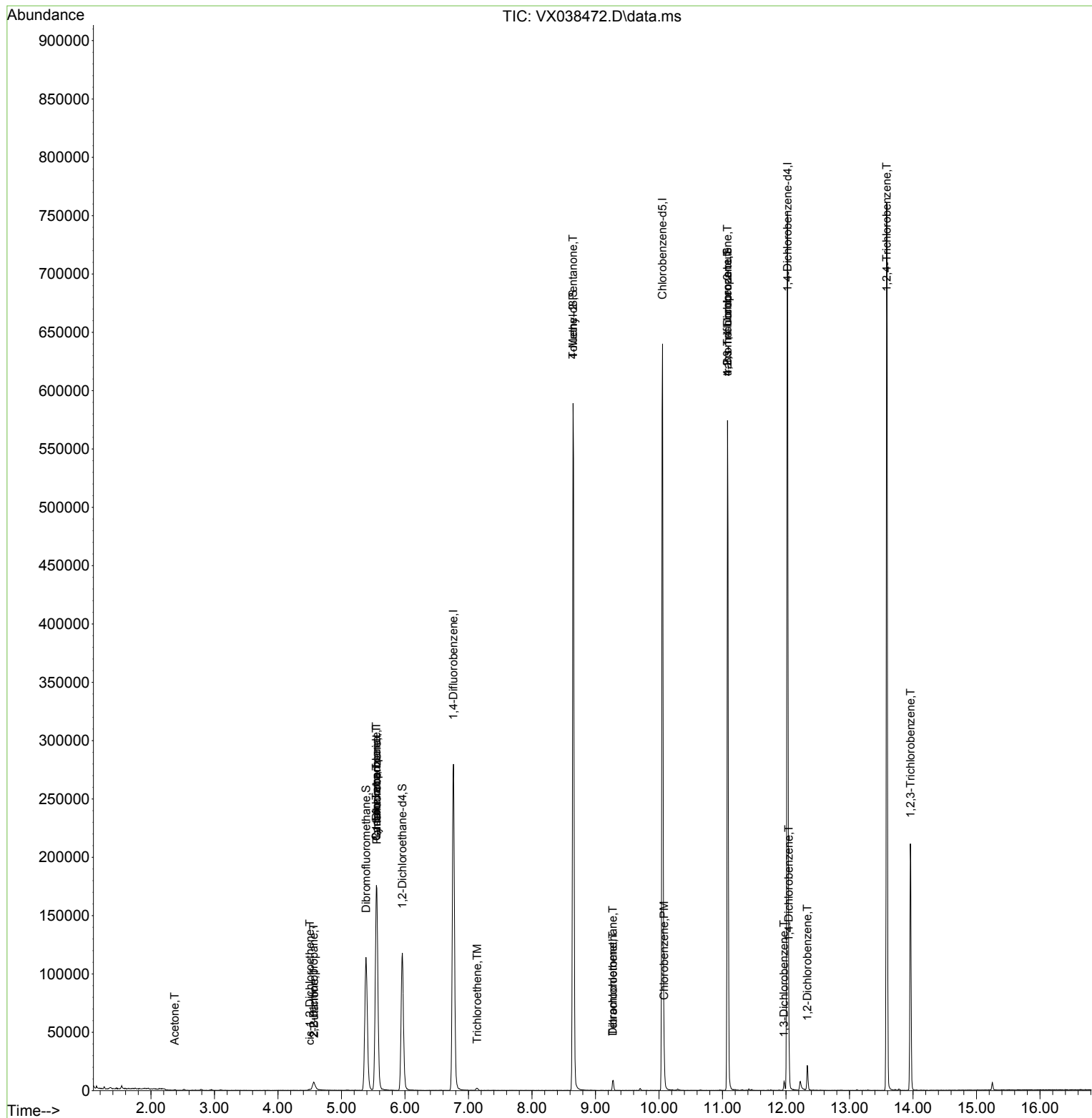
| Compound                      | R.T.   | QIon  | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|-------|----------|
| Internal Standards            |        |       |          |           |       |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 172959   | 50.000    | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 301287   | 50.000    | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 304111   | 50.000    | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 165437   | 50.000    | ug/l  | 0.00     |
| System Monitoring Compounds   |        |       |          |           |       |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 109366   | 39.313    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =     | 78.620%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 97713    | 45.009    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =     | 90.020%  |
| 50) Toluene-d8                | 8.647  | 98    | 361323   | 43.555    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =     | 87.100%# |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 143112   | 45.504    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =     | 91.000%  |
| Target Compounds              |        |       |          |           |       |          |
|                               |        |       |          |           |       | Qvalue   |
| 5) Bromomethane               | 1.545  | 94    | 20       | Below Cal | #     | 3        |
| 6) Chloroethane               | 1.685  | 64    | 117      | Below Cal | #     | 43       |
| 11) Tert butyl alcohol        | 2.947  | 59    | 413      | Below Cal | #     | 78       |
| 16) Acetone                   | 2.374  | 43    | 545      | 0.469     | ug/l  | # 83     |
| 25) 2-Butanone                | 4.568  | 43    | 493      | 0.263     | ug/l  | # 51     |
| 26) 2,2-Dichloropropane       | 4.562  | 77    | 604      | 0.215     | ug/l  | # 54     |
| 27) cis-1,2-Dichloroethene    | 4.501  | 96    | 721      | 0.309     | ug/l  | 72       |
| 31) Cyclohexane               | 5.550  | 56    | 3766     | 1.249     | ug/l  | # 1      |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 13488    | 4.505     | ug/l  | # 50     |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 17711    | 6.014     | ug/l  | # 15     |
| 44) Trichloroethene           | 7.135  | 130   | 909      | 0.415     | ug/l  | 77       |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 1524     | 0.416     | ug/l  | # 1      |
| 60) Dibromochloromethane      | 9.275  | 129   | 1780     | 0.780     | ug/l  | # 11     |
| 64) Tetrachloroethene         | 9.275  | 164   | 1757     | 0.892     | ug/l  | 94       |
| 65) Chlorobenzene             | 10.080 | 112   | 8688     | 1.365     | ug/l  | 98       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 74252    | 19.743    | ug/l  | # 38     |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 74252    | 57.030    | ug/l  | # 5      |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146   | 2849     | 0.524     | ug/l  | 96       |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146   | 17286    | 3.112     | ug/l  | 96       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146   | 6623     | 1.266     | ug/l  | 96       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180   | 178090   | 50.773    | ug/l  | 97       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180   | 50779    | 14.951    | ug/l  | 95       |

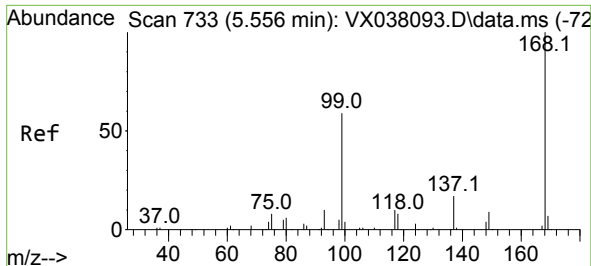
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX102523\  
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Quant Time: Oct 26 04:02:45 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

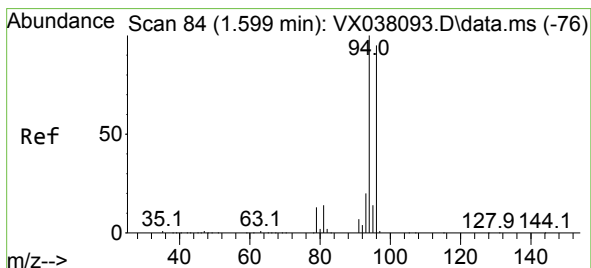
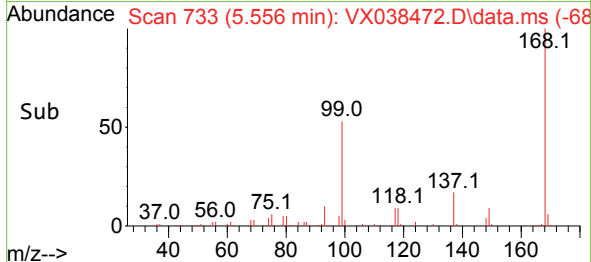
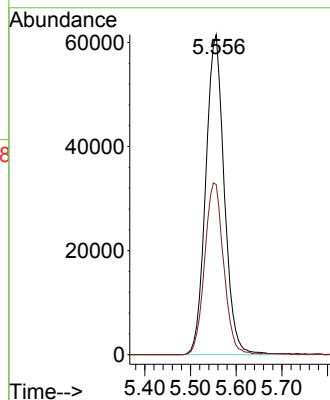
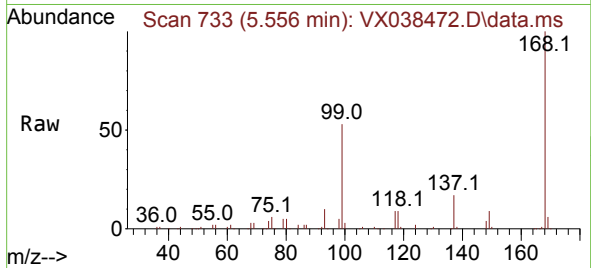




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX038472.D  
Acq: 25 Oct 2023 12:15

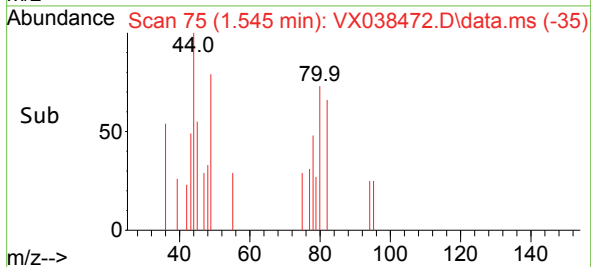
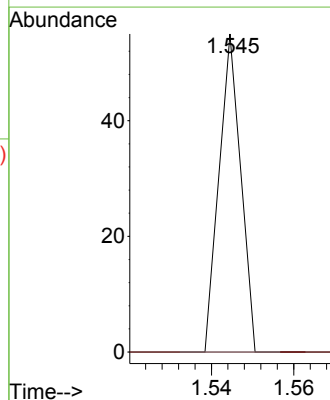
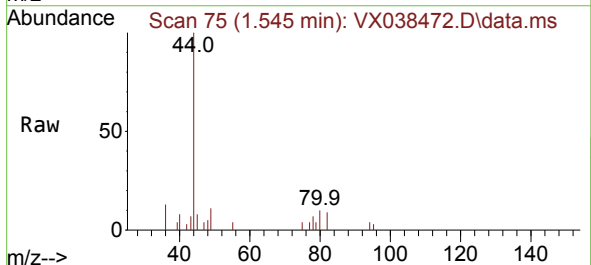
Instrument :  
MSVOA\_X  
ClientSampleId :

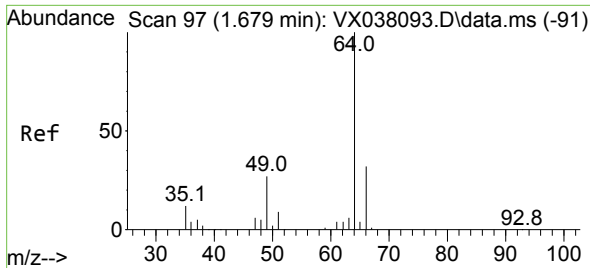
Tgt Ion:168 Resp: 172959  
Ion Ratio Lower Upper  
168 100  
99 53.2 56.6 85.0#



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.545 min Scan# 75  
Delta R.T. -0.054 min  
Lab File: VX038472.D  
Acq: 25 Oct 2023 12:15

Tgt Ion: 94 Resp: 20  
Ion Ratio Lower Upper  
94 100  
96 0.0 74.6 111.8#

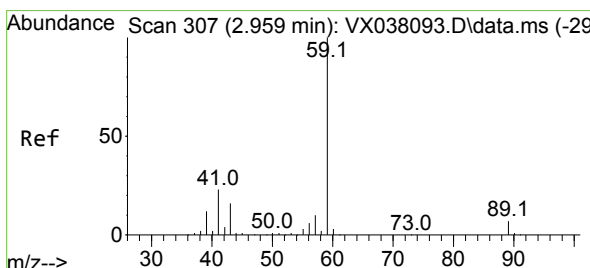
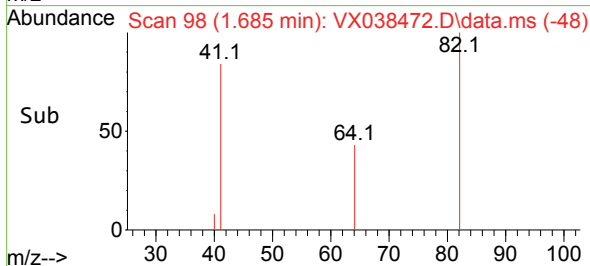
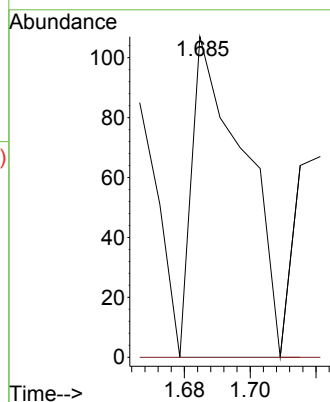
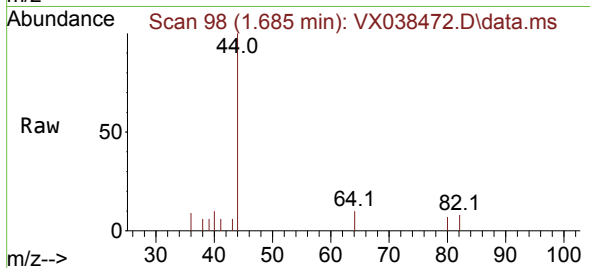




#6  
Chloroethane  
Concen: Below Cal  
RT: 1.685 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VX038472.D  
Acq: 25 Oct 2023 12:15

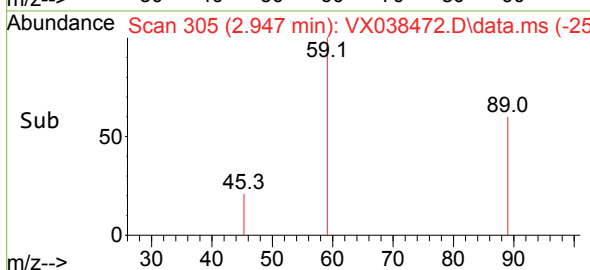
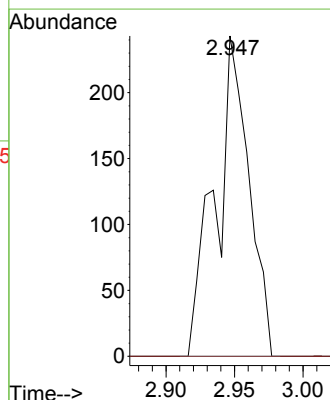
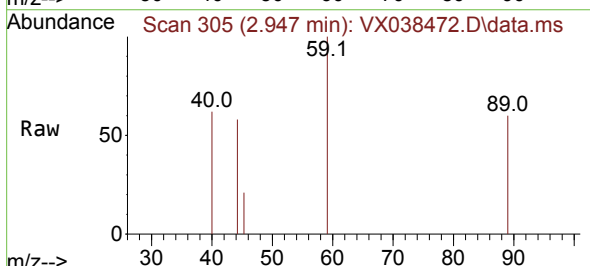
Instrument :  
MSVOA\_X  
ClientSampleId :

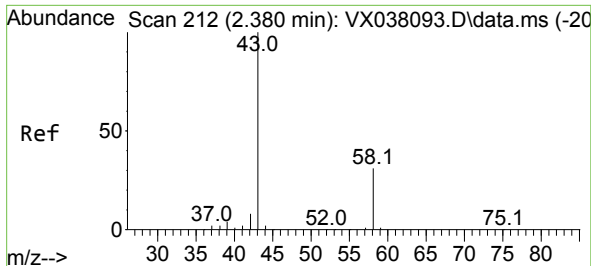
Tgt Ion: 64 Resp: 117  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.1 37.7#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 2.947 min Scan# 305  
Delta R.T. -0.012 min  
Lab File: VX038472.D  
Acq: 25 Oct 2023 12:15

Tgt Ion: 59 Resp: 413  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#

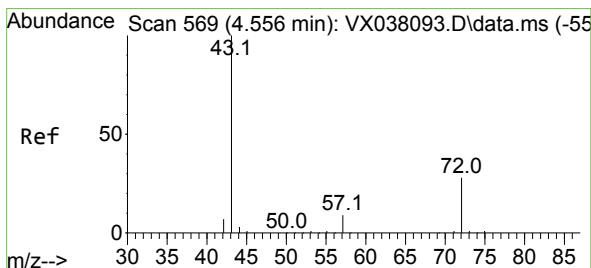
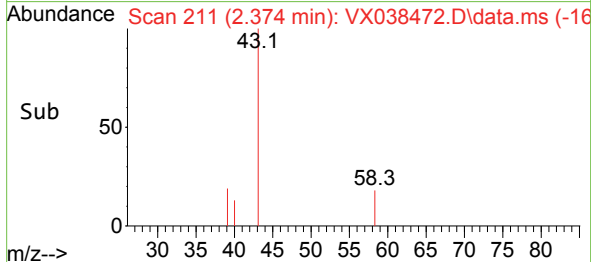
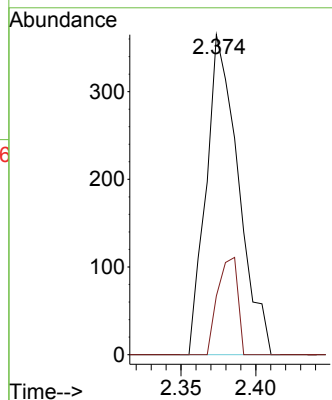
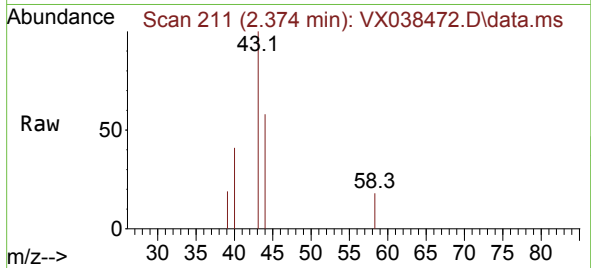




#16  
Acetone  
Concen: 0.469 ug/l  
RT: 2.374 min Scan# 212  
Delta R.T. -0.006 min  
Lab File: VX038472.D  
Acq: 25 Oct 2023 12:15

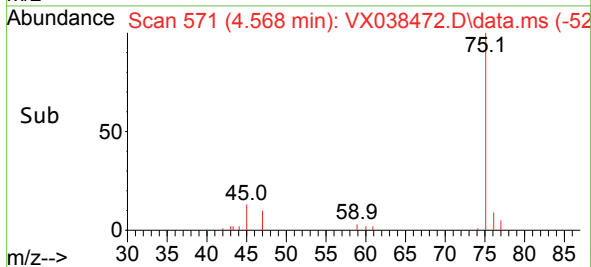
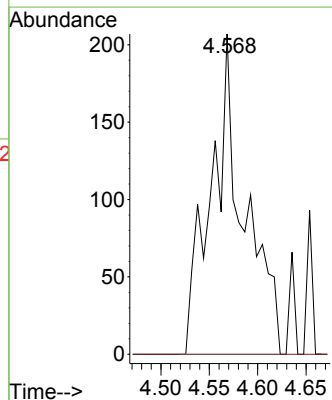
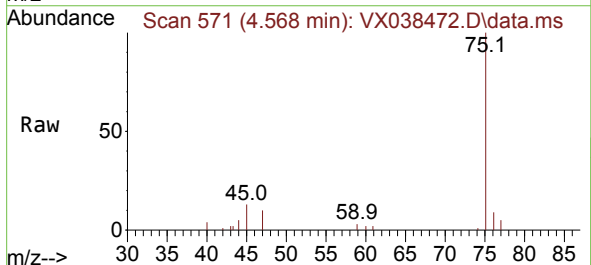
Instrument :  
MSVOA\_X  
ClientSampleId :

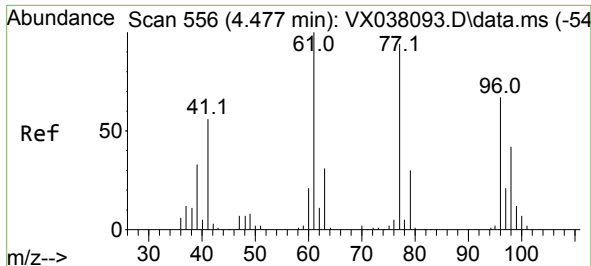
Tgt Ion: 43 Resp: 545  
Ion Ratio Lower Upper  
43 100  
58 18.4 21.9 32.9#



#25  
2-Butanone  
Concen: 0.263 ug/l  
RT: 4.568 min Scan# 571  
Delta R.T. 0.012 min  
Lab File: VX038472.D  
Acq: 25 Oct 2023 12:15

Tgt Ion: 43 Resp: 493  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.4 29.2#





#26

2,2-Dichloropropane

Concen: 0.215 ug/l

RT: 4.562 min Scan# 51

Delta R.T. 0.085 min

Lab File: VX038472.D

Acq: 25 Oct 2023 12:15

Instrument :

MSVOA\_X

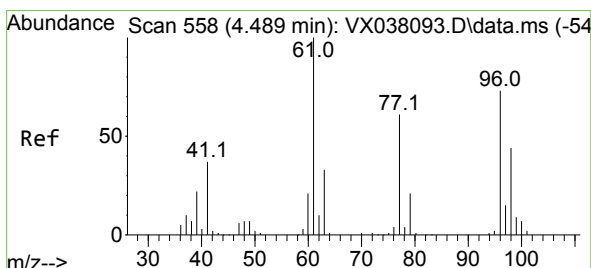
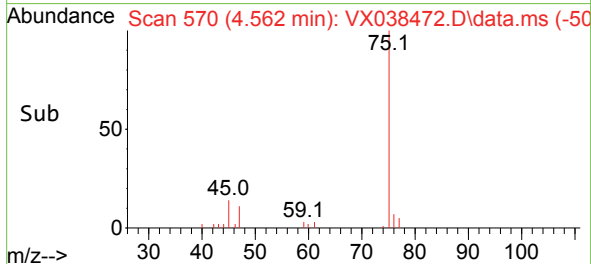
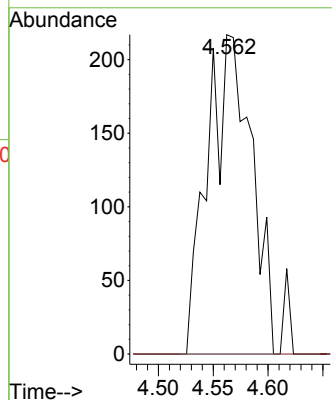
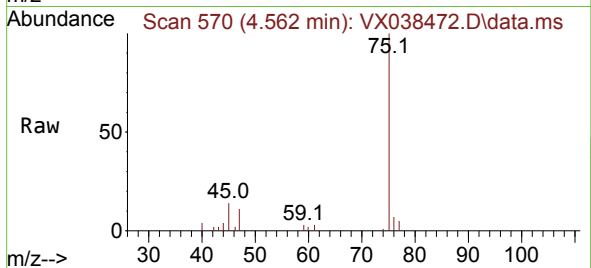
ClientSampleId :

Tgt Ion: 77 Resp: 604

Ion Ratio Lower Upper

77 100

97 0.0 10.8 32.3#



#27

cis-1,2-Dichloroethene

Concen: 0.309 ug/l

RT: 4.501 min Scan# 560

Delta R.T. 0.012 min

Lab File: VX038472.D

Acq: 25 Oct 2023 12:15

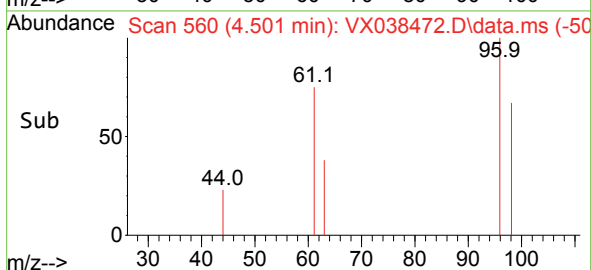
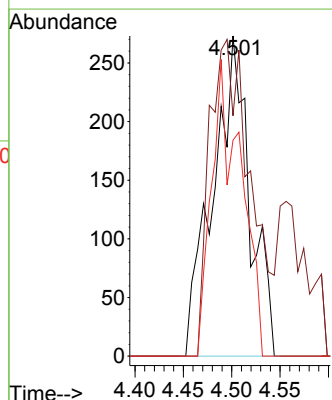
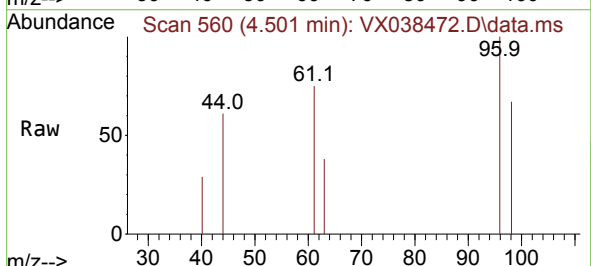
Tgt Ion: 96 Resp: 721

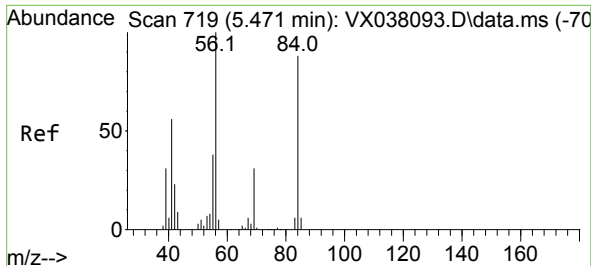
Ion Ratio Lower Upper

96 100

61 111.1 0.0 312.2

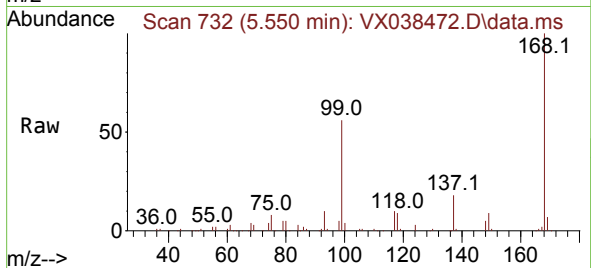
98 74.3 0.0 129.0



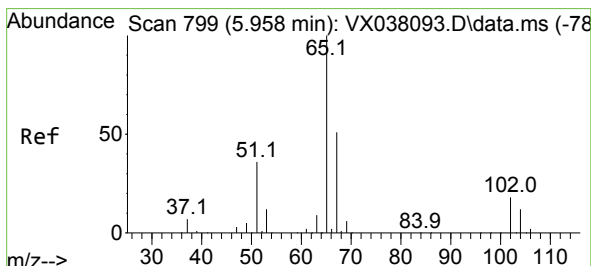
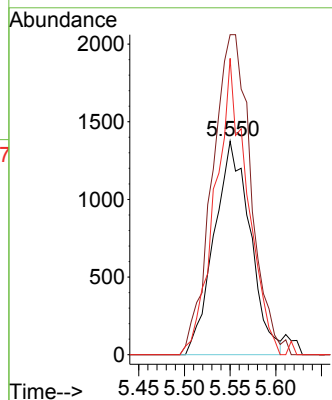
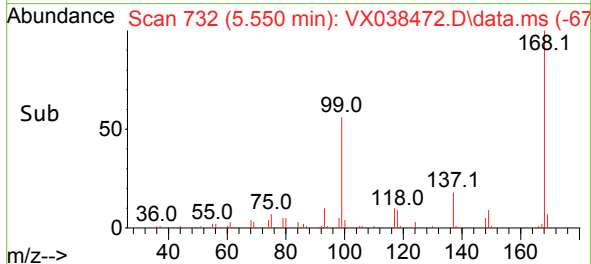


#31  
Cyclohexane  
Concen: 1.249 ug/l  
RT: 5.550 min Scan# 719  
Delta R.T. 0.079 min  
Lab File: VX038472.D  
Acq: 25 Oct 2023 12:15

Instrument :  
MSVOA\_X  
ClientSampleId :

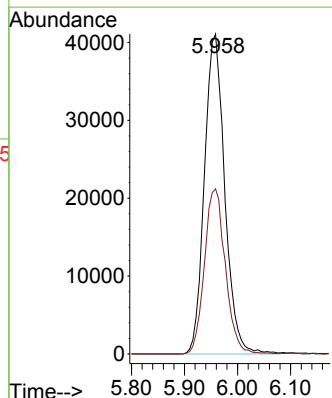
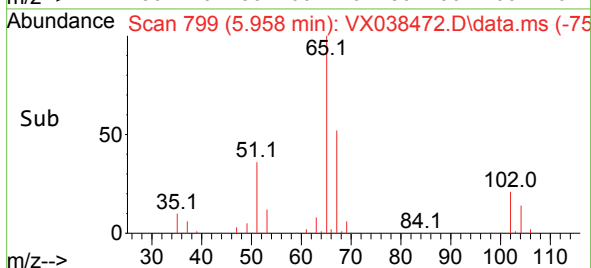
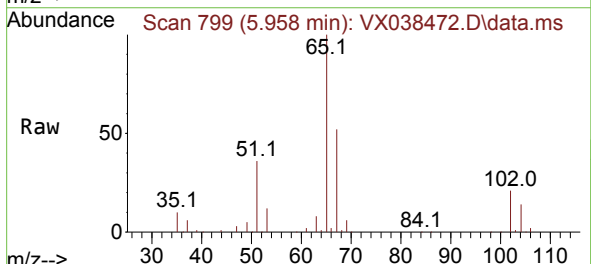


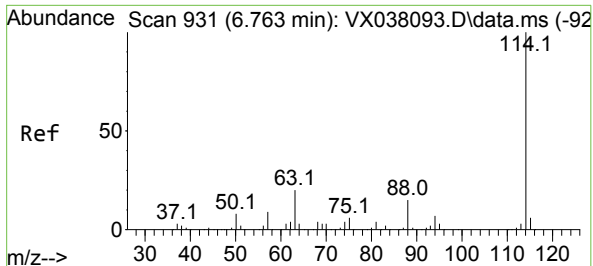
Tgt Ion: 56 Resp: 3766  
Ion Ratio Lower Upper  
56 100  
69 149.9 23.4 35.2#  
84 138.8 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 39.313 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX038472.D  
Acq: 25 Oct 2023 12:15

Tgt Ion: 65 Resp: 109366  
Ion Ratio Lower Upper  
65 100  
67 53.2 0.0 100.2

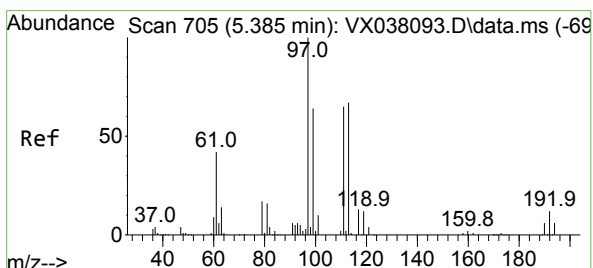
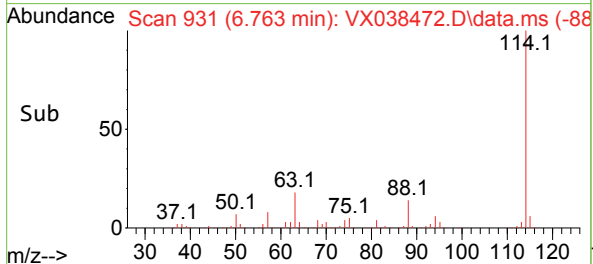
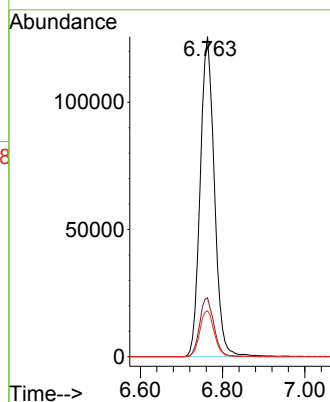
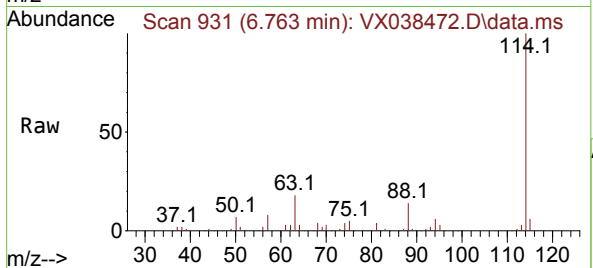




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.763 min Scan# 91  
 Delta R.T. 0.000 min  
 Lab File: VX038472.D  
 Acq: 25 Oct 2023 12:15

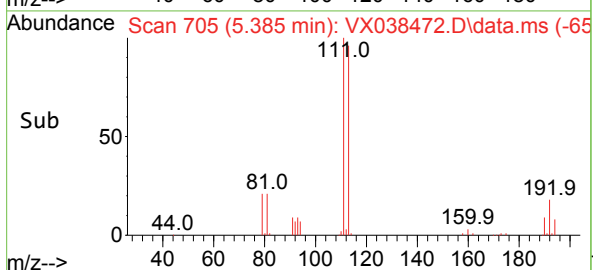
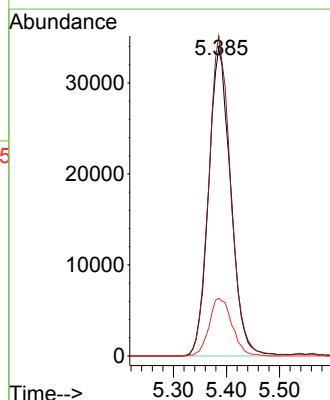
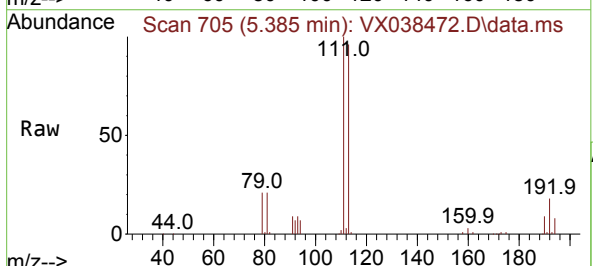
Instrument :  
 MSVOA\_X  
 ClientSampleId :

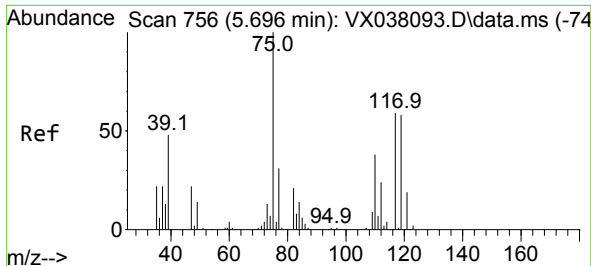
Tgt Ion:114 Resp: 301287  
 Ion Ratio Lower Upper  
 114 100  
 63 18.4 0.0 45.0  
 88 14.4 0.0 36.6



#35  
 Dibromofluoromethane  
 Concen: 45.009 ug/l  
 RT: 5.385 min Scan# 705  
 Delta R.T. 0.000 min  
 Lab File: VX038472.D  
 Acq: 25 Oct 2023 12:15

Tgt Ion:113 Resp: 97713  
 Ion Ratio Lower Upper  
 113 100  
 111 103.3 82.9 124.3  
 192 19.5 13.3 19.9





#36

1,1-Dichloropropene

Concen: 4.505 ug/l

RT: 5.550 min Scan# 71

Delta R.T. -0.140 min

Lab File: VX038472.D

Acq: 25 Oct 2023 12:15

Instrument :

MSVOA\_X

ClientSampleId :

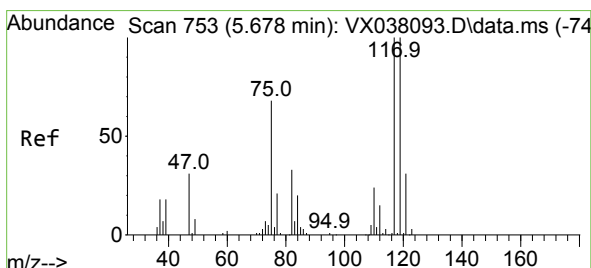
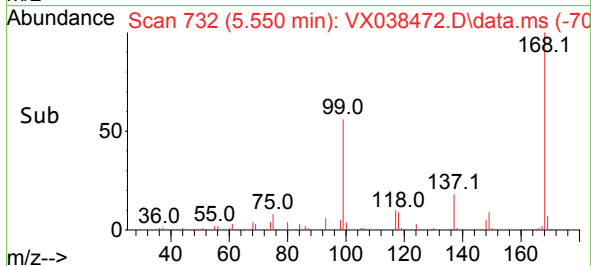
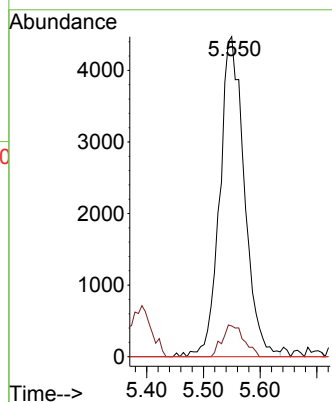
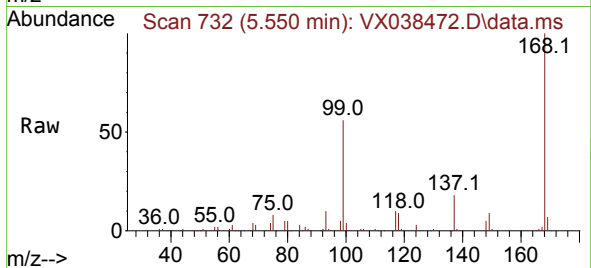
Tgt Ion: 75 Resp: 13488

Ion Ratio Lower Upper

75 100

110 8.7 17.0 50.9#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 6.014 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.128 min

Lab File: VX038472.D

Acq: 25 Oct 2023 12:15

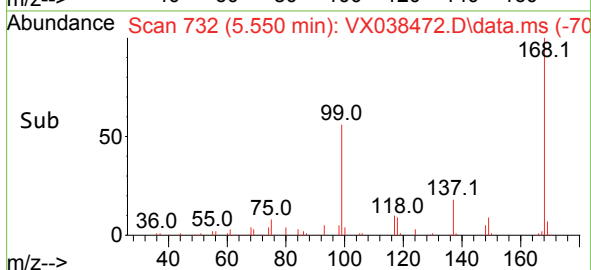
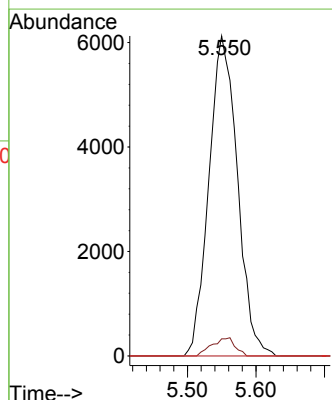
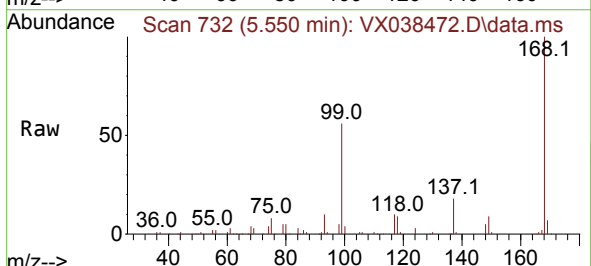
Tgt Ion: 117 Resp: 17711

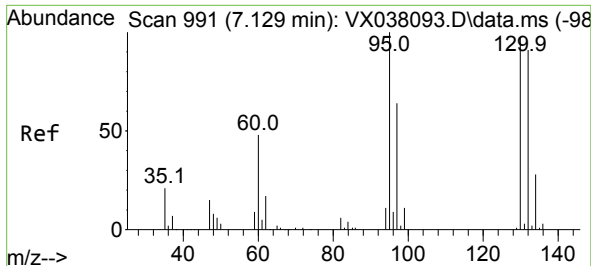
Ion Ratio Lower Upper

117 100

119 5.4 78.2 117.2#

121 0.0 24.4 36.6#

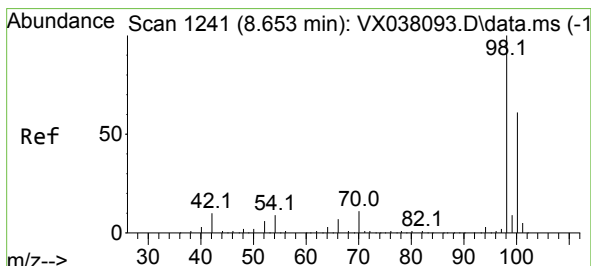
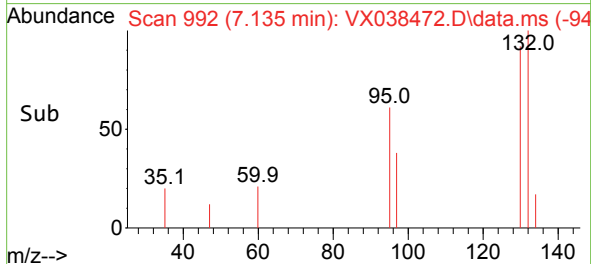
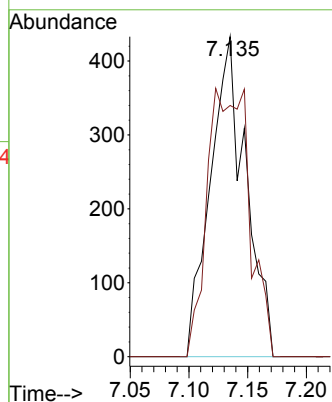
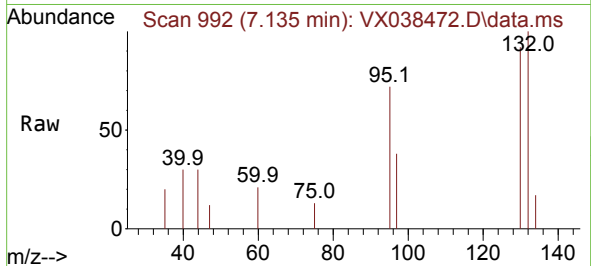




#44  
Trichloroethene  
Concen: 0.415 ug/l  
RT: 7.135 min Scan# 991  
Delta R.T. 0.006 min  
Lab File: VX038472.D  
Acq: 25 Oct 2023 12:15

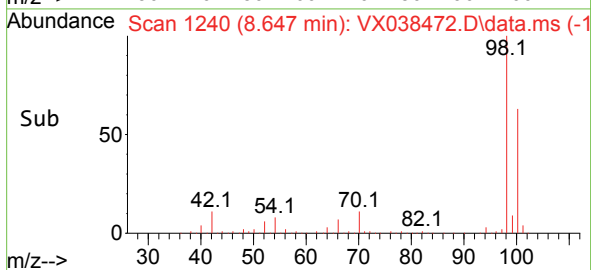
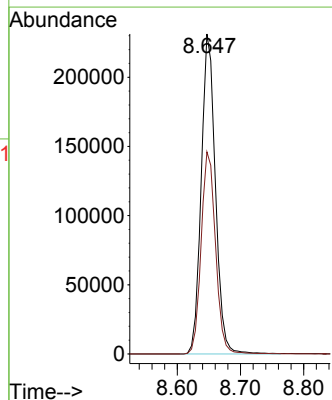
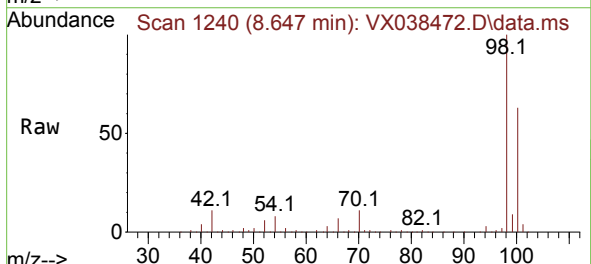
Instrument :  
MSVOA\_X  
ClientSampleId :

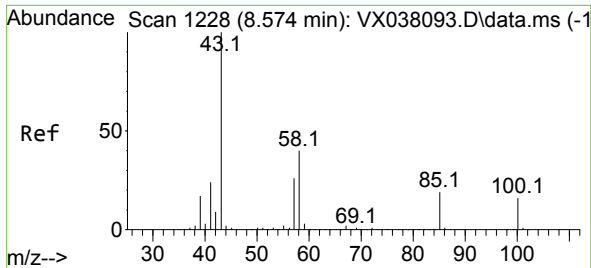
Tgt Ion:130 Resp: 909  
Ion Ratio Lower Upper  
130 100  
95 78.5 0.0 204.4



#50  
Toluene-d8  
Concen: 43.555 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.006 min  
Lab File: VX038472.D  
Acq: 25 Oct 2023 12:15

Tgt Ion: 98 Resp: 361323  
Ion Ratio Lower Upper  
98 100  
100 64.3 53.1 79.7

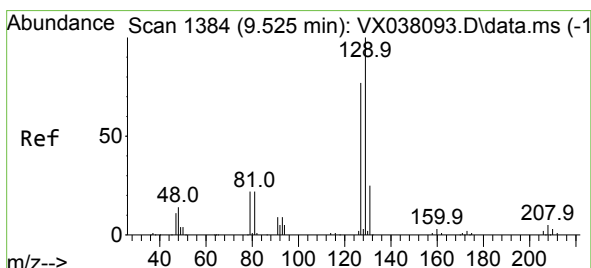
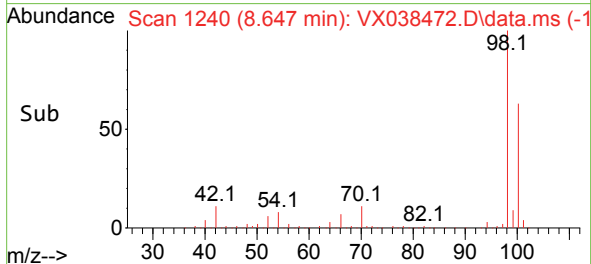
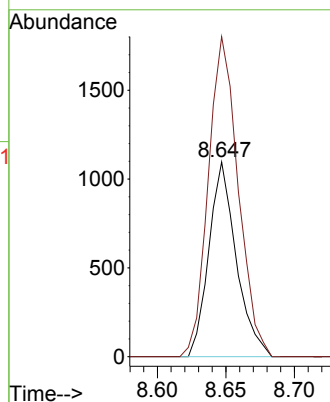
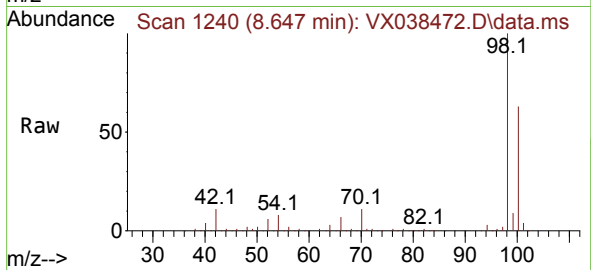




#51  
4-Methyl-2-Pentanone  
Concen: 0.416 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.073 min  
Lab File: VX038472.D  
Acq: 25 Oct 2023 12:15

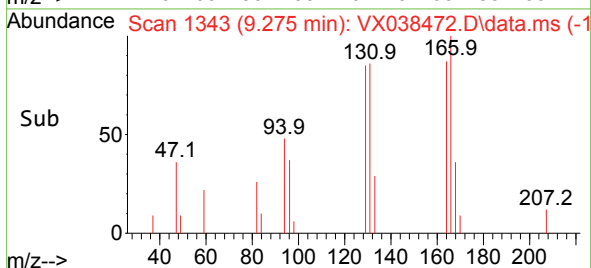
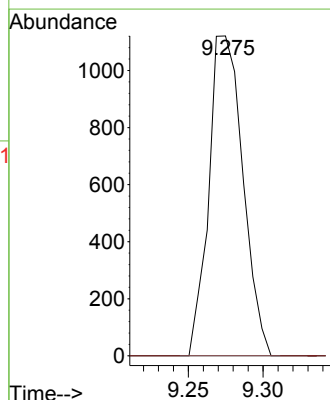
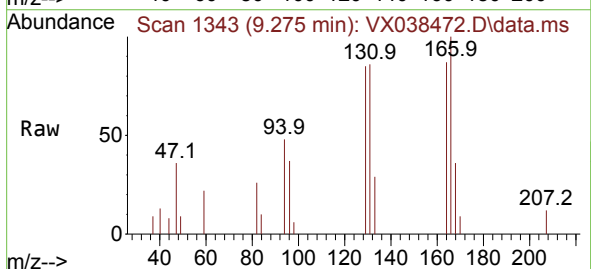
Instrument :  
MSVOA\_X  
ClientSampleId :

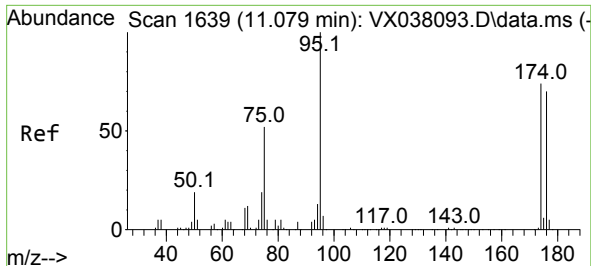
Tgt Ion: 43 Resp: 1524  
Ion Ratio Lower Upper  
43 100  
58 179.3 30.4 45.6#



#60  
Dibromochloromethane  
Concen: 0.780 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.250 min  
Lab File: VX038472.D  
Acq: 25 Oct 2023 12:15

Tgt Ion: 129 Resp: 1780  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.8 116.4#

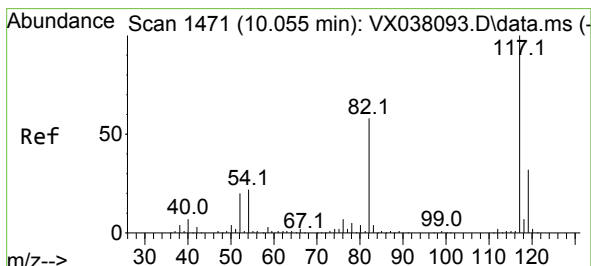
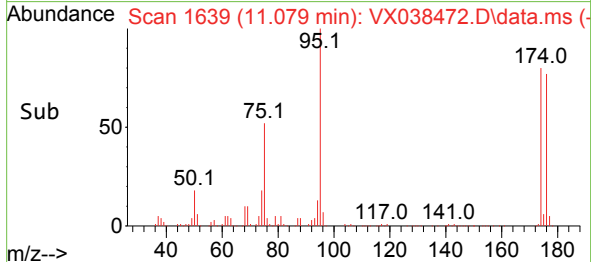
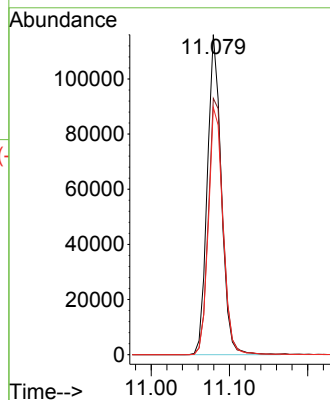
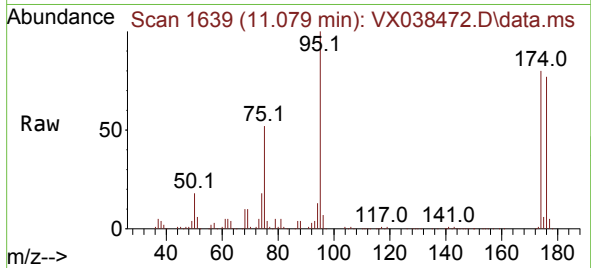




#62  
4-Bromofluorobenzene  
Concen: 45.504 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX038472.D  
Acq: 25 Oct 2023 12:15

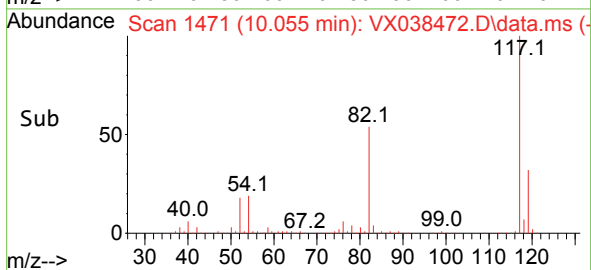
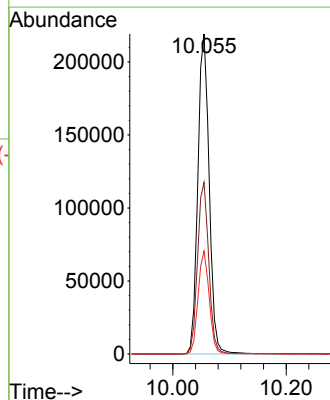
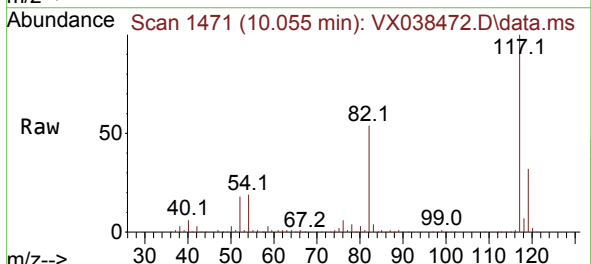
Instrument :  
MSVOA\_X  
ClientSampleId :

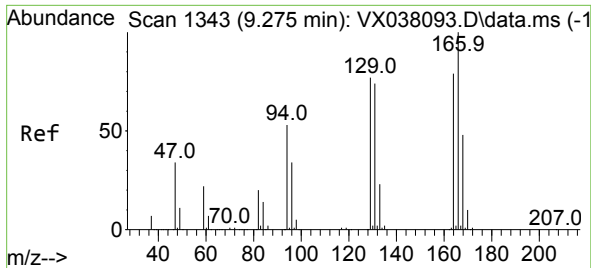
Tgt Ion: 95 Resp: 143112  
Ion Ratio Lower Upper  
95 100  
174 84.4 0.0 135.6  
176 80.7 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX038472.D  
Acq: 25 Oct 2023 12:15

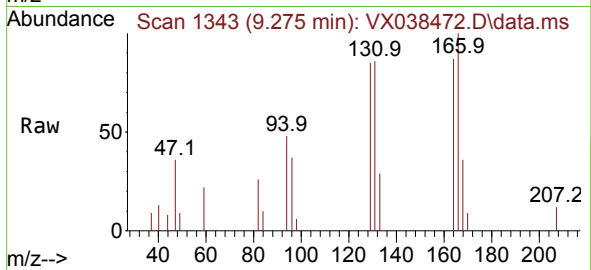
Tgt Ion: 117 Resp: 304111  
Ion Ratio Lower Upper  
117 100  
82 53.6 46.2 69.4  
119 32.1 25.5 38.3



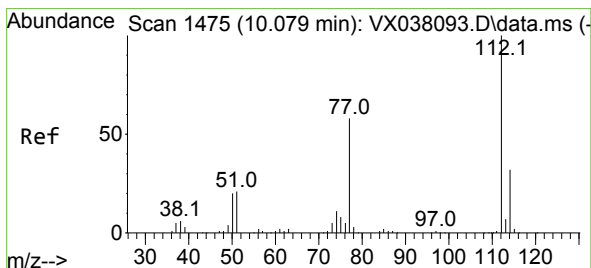
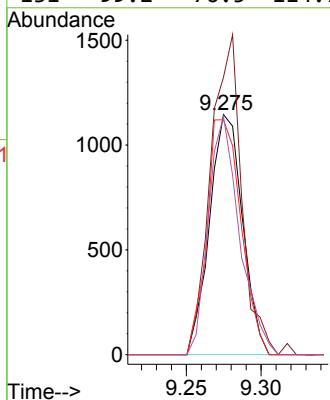
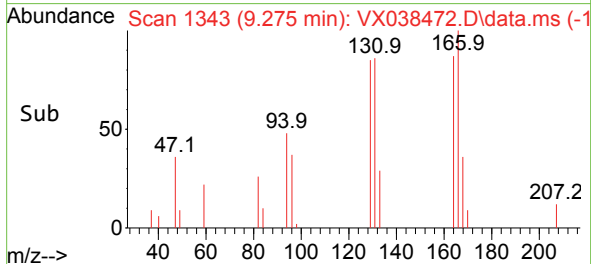


#64  
Tetrachloroethene  
Concen: 0.892 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX038472.D  
Acq: 25 Oct 2023 12:15

Instrument :  
MSVOA\_X  
ClientSampleId :

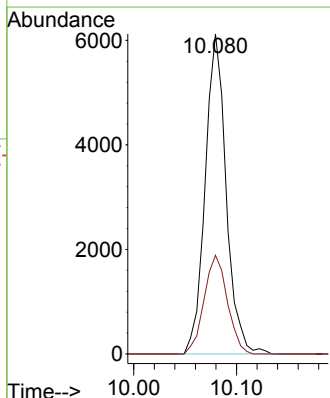
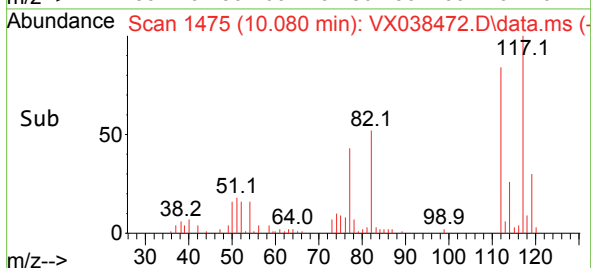
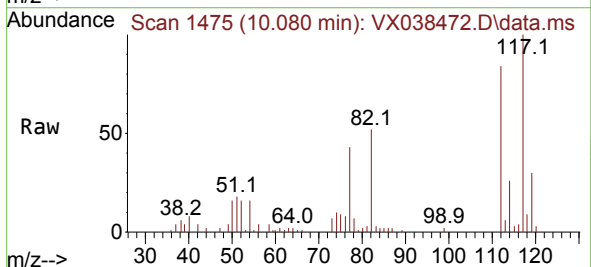


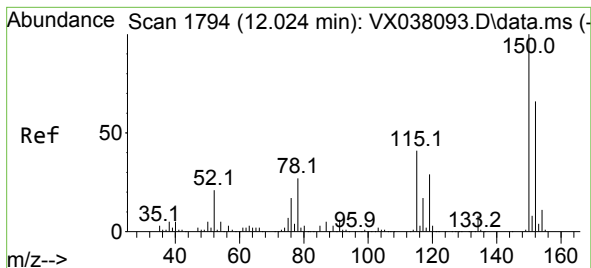
Tgt Ion:164 Resp: 1757  
Ion Ratio Lower Upper  
164 100  
166 115.5 102.7 154.1  
129 97.8 80.4 120.6  
131 99.2 76.5 114.7



#65  
Chlorobenzene  
Concen: 1.365 ug/l  
RT: 10.080 min Scan# 1475  
Delta R.T. 0.001 min  
Lab File: VX038472.D  
Acq: 25 Oct 2023 12:15

Tgt Ion:112 Resp: 8688  
Ion Ratio Lower Upper  
112 100  
114 30.8 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX038472.D

Acq: 25 Oct 2023 12:15

Instrument :

MSVOA\_X

ClientSampleId :

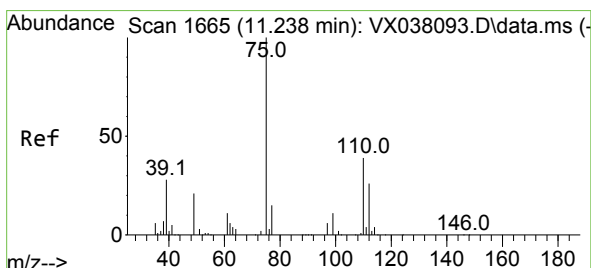
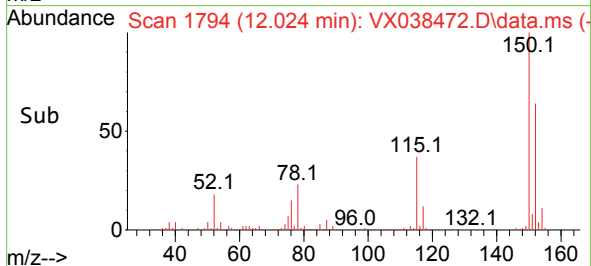
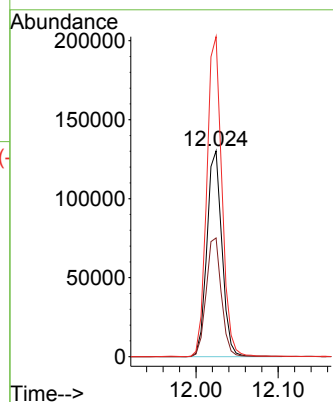
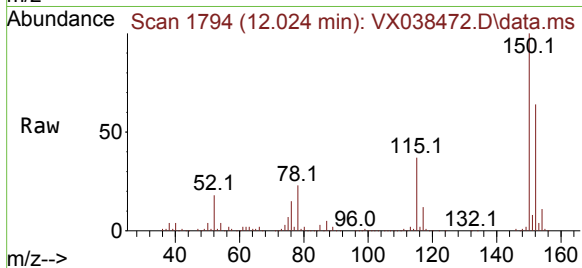
Tgt Ion:152 Resp: 165437

Ion Ratio Lower Upper

152 100

115 58.5 43.3 129.9

150 157.0 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 19.743 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX038472.D

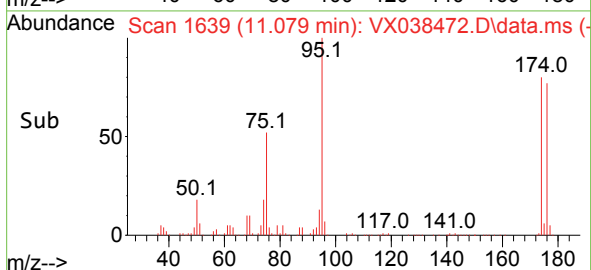
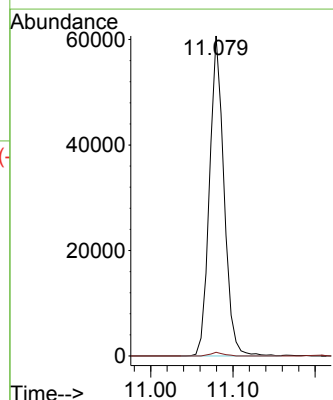
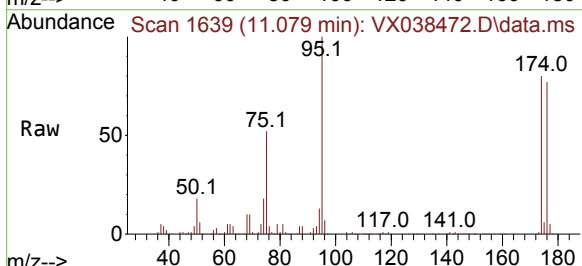
Acq: 25 Oct 2023 12:15

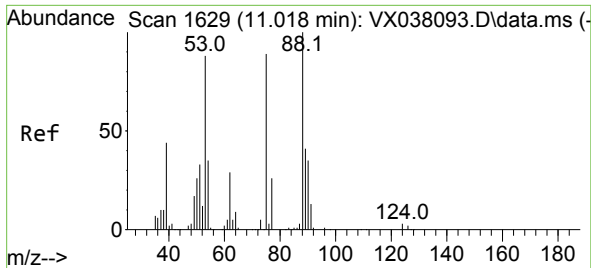
Tgt Ion: 75 Resp: 74252

Ion Ratio Lower Upper

75 100

77 1.0 19.1 57.5#

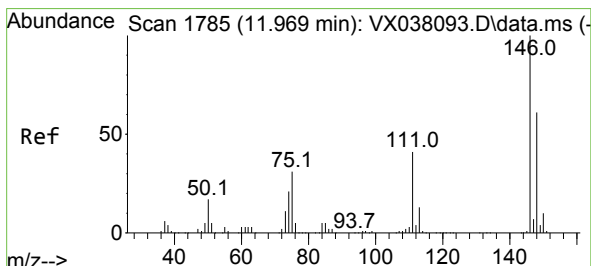
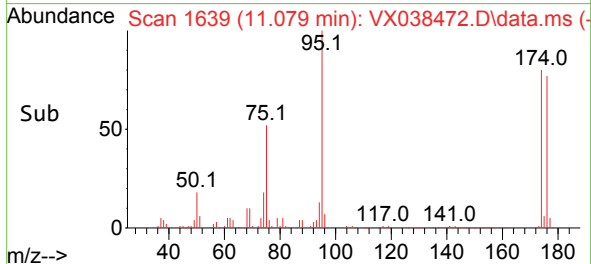
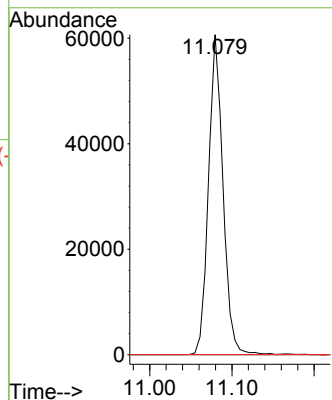
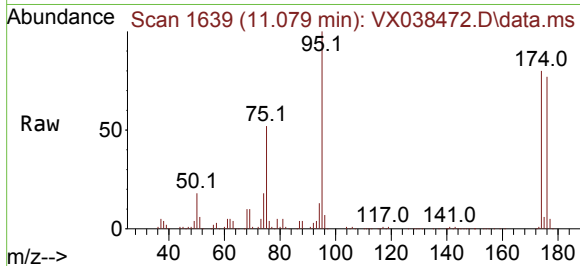




#81  
trans-1,4-Dichloro-2-butene  
Concen: 57.030 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX038472.D  
Acq: 25 Oct 2023 12:15

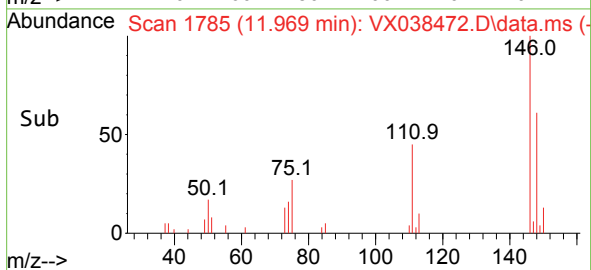
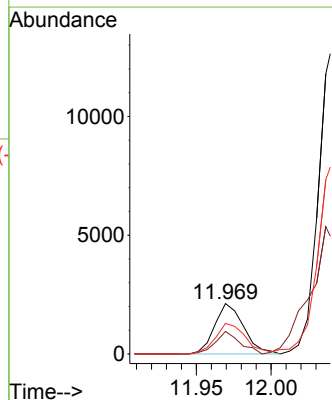
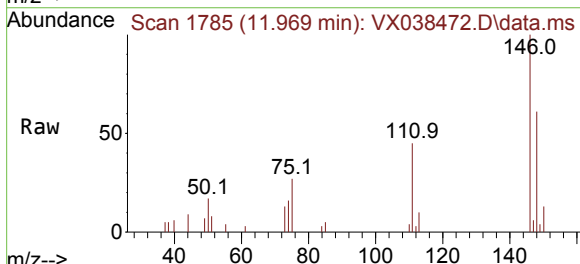
Instrument :  
MSVOA\_X  
ClientSampleId :

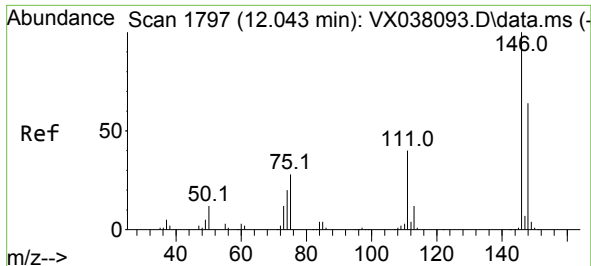
Tgt Ion: 75 Resp: 74252  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#



#87  
1,3-Dichlorobenzene  
Concen: 0.524 ug/l  
RT: 11.969 min Scan# 1785  
Delta R.T. 0.000 min  
Lab File: VX038472.D  
Acq: 25 Oct 2023 12:15

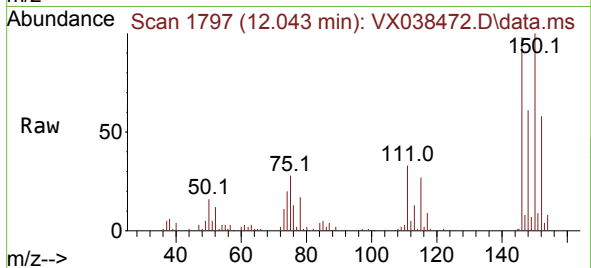
Tgt Ion:146 Resp: 2849  
Ion Ratio Lower Upper  
146 100  
111 38.4 22.1 66.1  
148 63.4 31.8 95.3



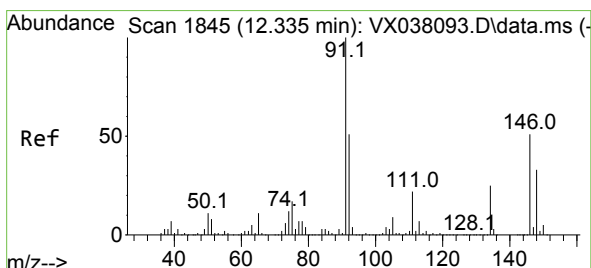
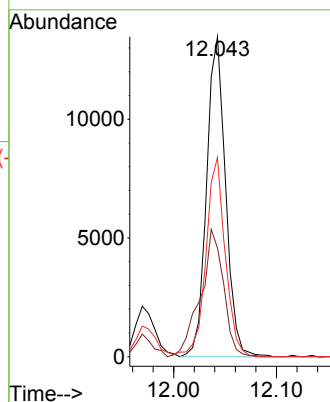
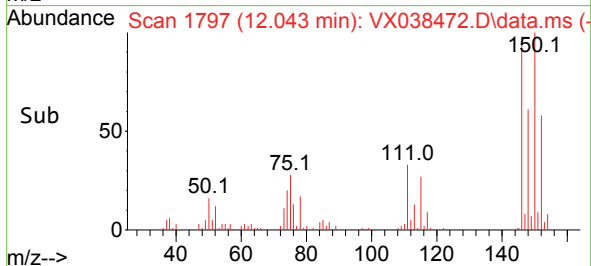


#88  
 1,4-Dichlorobenzene  
 Concen: 3.112 ug/l  
 RT: 12.043 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: VX038472.D  
 Acq: 25 Oct 2023 12:15

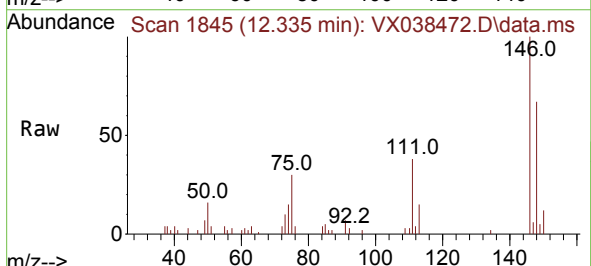
Instrument :  
 MSVOA\_X  
 ClientSampleId :



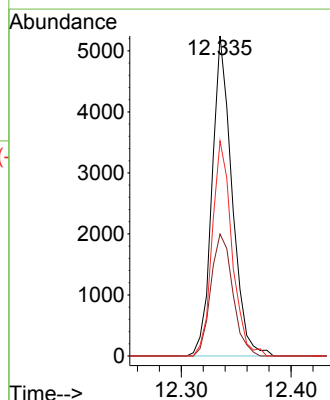
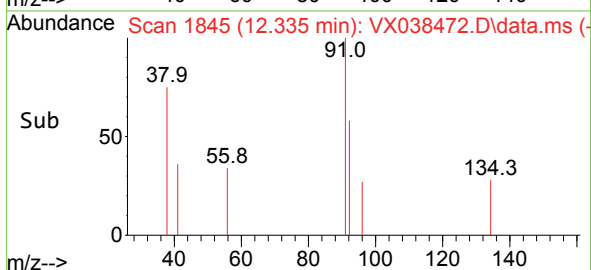
Tgt Ion:146 Resp: 17286  
 Ion Ratio Lower Upper  
 146 100  
 111 48.2 21.3 63.7  
 148 63.4 31.8 95.4

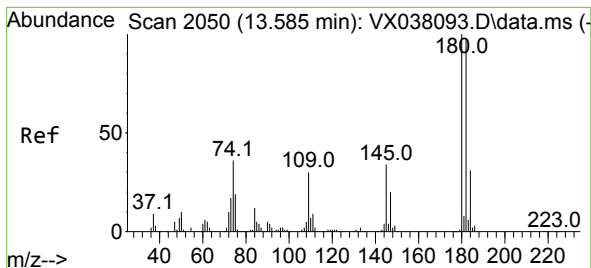


#91  
 1,2-Dichlorobenzene  
 Concen: 1.266 ug/l  
 RT: 12.335 min Scan# 1845  
 Delta R.T. 0.000 min  
 Lab File: VX038472.D  
 Acq: 25 Oct 2023 12:15



Tgt Ion:146 Resp: 6623  
 Ion Ratio Lower Upper  
 146 100  
 111 41.8 22.4 67.0  
 148 66.7 31.6 95.0





#93

1,2,4-Trichlorobenzene

Concen: 50.773 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX038472.D

Acq: 25 Oct 2023 12:15

Instrument :

MSVOA\_X

ClientSampleId :

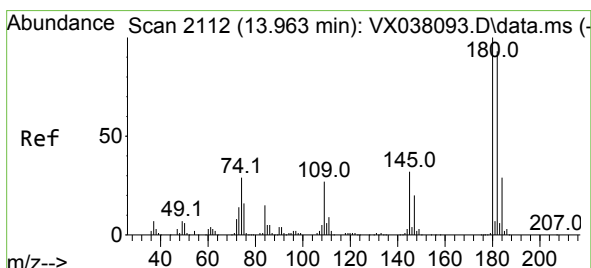
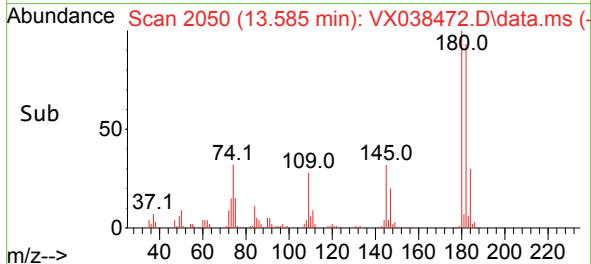
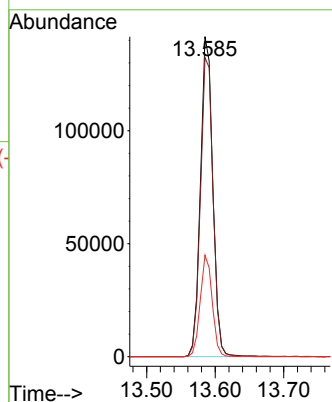
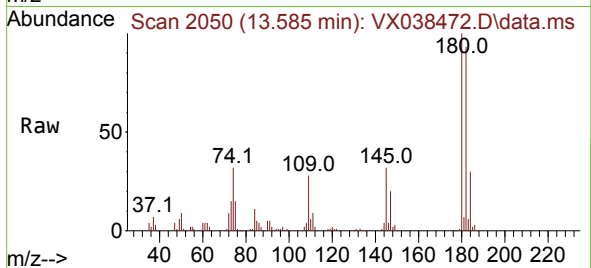
Tgt Ion:180 Resp: 178090

Ion Ratio Lower Upper

180 100

182 95.4 48.3 144.8

145 30.7 18.0 54.0



#96

1,2,3-Trichlorobenzene

Concen: 14.951 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. 0.000 min

Lab File: VX038472.D

Acq: 25 Oct 2023 12:15

Tgt Ion:180 Resp: 50779

Ion Ratio Lower Upper

180 100

182 97.5 46.9 140.6

145 31.8 17.8 53.5

