

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX022224\  
 Data File : VX040401.D  
 Acq On : 22 Feb 2024 15:03  
 Operator : JC/MD  
 Sample : P1520-10DL 5X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 DUP03-20240216DL

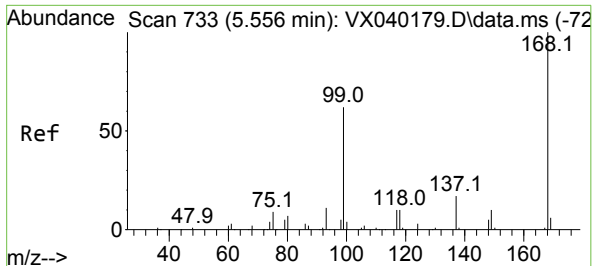
Quant Time: Feb 23 00:08:00 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X020924W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 12 00:21:14 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 72470    | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 127701   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 122500   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 60631    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 57047    | 52.912    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 105.820% |
| 35) Dibromofluoromethane      | 5.385  | 113   | 42920    | 48.128    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 96.260%  |
| 50) Toluene-d8                | 8.647  | 98    | 157968   | 47.353    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 94.700%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 60710    | 44.622    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 89.240%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 9) 1,1,2-Trichlorotrifluo...  | 2.331  | 101   | 465      | 0.605     | ug/l # | 67       |
| 11) Tert butyl alcohol        | 2.953  | 59    | 159      | 0.757     | ug/l # | 78       |
| 16) Acetone                   | 2.374  | 43    | 344      | 0.777     | ug/l   | 93       |
| 17) Carbon Disulfide          | 2.514  | 76    | 527      | 0.270     | ug/l # | 76       |
| 20) Methylene Chloride        | 2.794  | 84    | 348      | Below Cal | #      | 52       |
| 27) cis-1,2-Dichloroethene    | 4.495  | 96    | 329      | 0.342     | ug/l   | 72       |
| 31) Cyclohexane               | 5.556  | 56    | 1986     | 1.544     | ug/l # | 51       |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 7093     | 5.678     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.556  | 117   | 8049     | 6.776     | ug/l # | 17       |
| 39) Methylcyclohexane         | 7.123  | 83    | 467      | 0.322     | ug/l # | 21       |
| 44) Trichloroethene           | 7.123  | 130   | 29144    | 30.243    | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone      | 8.641  | 43    | 817      | 0.551     | ug/l # | 1        |
| 60) Dibromochloromethane      | 9.269  | 129   | 1626     | 1.635     | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.281  | 164   | 1696     | 1.976     | ug/l # | 77       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 33925    | 27.631    | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 33925    | 75.631    | ug/l # | 5        |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180   | 365      | 0.276     | ug/l   | 70       |
| 94) Hexachlorobutadiene       | 13.725 | 225   | 119      | 0.225     | ug/l # | 18       |
| 95) Naphthalene               | 13.780 | 128   | 878      | 0.210     | ug/l # | 73       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180   | 296      | 0.234     | ug/l   | 84       |
| -----                         |        |       |          |           |        |          |

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

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Response via : Initial Calibration

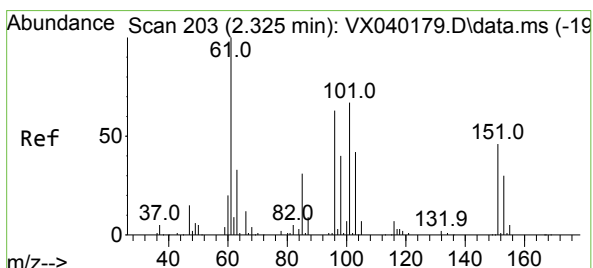
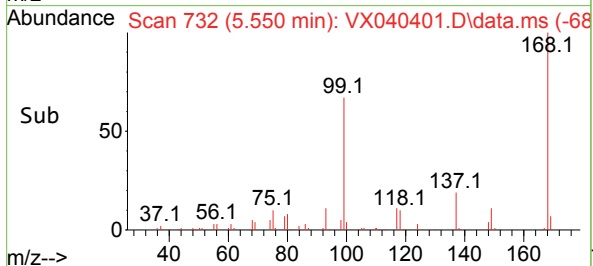
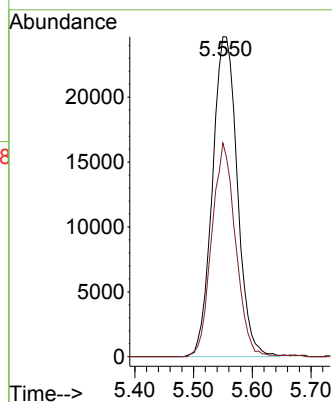
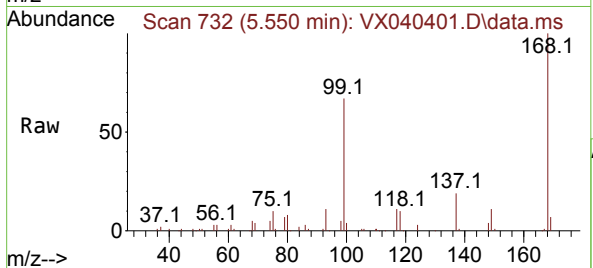




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX040401.D  
Acq: 22 Feb 2024 15:03

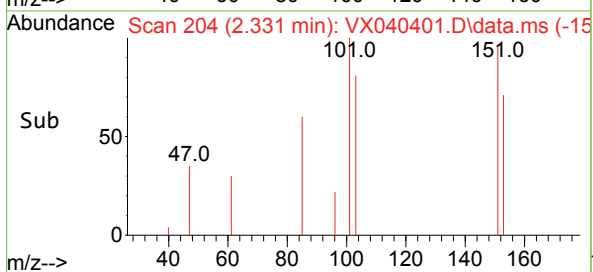
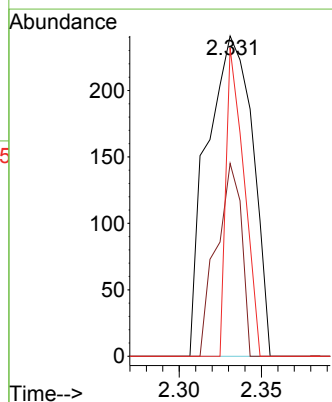
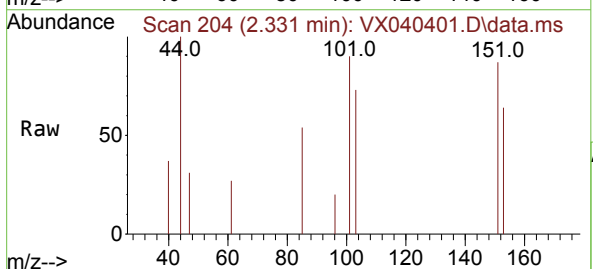
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP03-20240216DL

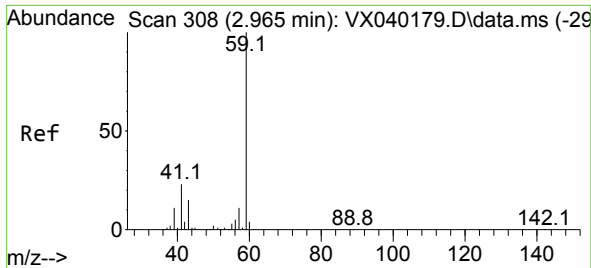
Tgt Ion:168 Resp: 72470  
Ion Ratio Lower Upper  
168 100  
99 66.8 56.6 85.0



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.605 ug/l  
RT: 2.331 min Scan# 204  
Delta R.T. 0.006 min  
Lab File: VX040401.D  
Acq: 22 Feb 2024 15:03

Tgt Ion:101 Resp: 465  
Ion Ratio Lower Upper  
101 100  
85 33.1 37.0 55.6#  
151 38.1 58.6 87.8#





#11

Tert butyl alcohol

Concen: 0.757 ug/l

RT: 2.953 min Scan# 308

Delta R.T. -0.012 min

Lab File: VX040401.D

Acq: 22 Feb 2024 15:03

Instrument :

MSVOA\_X

ClientSampleId :

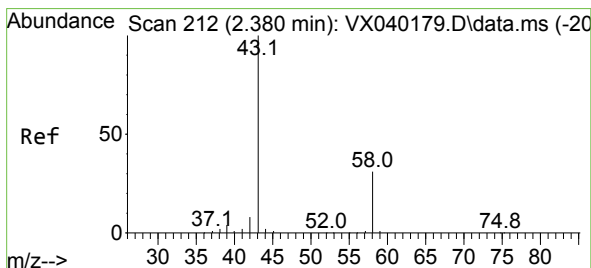
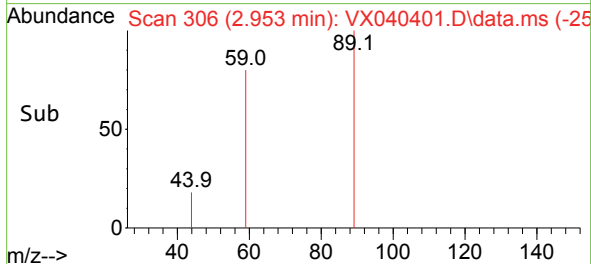
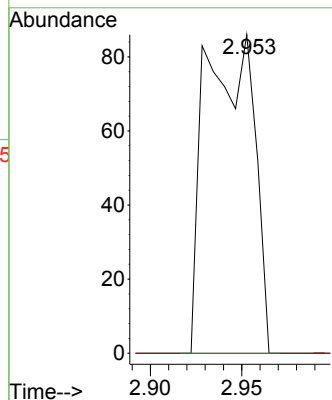
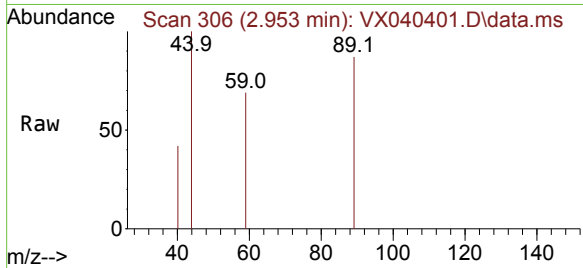
DUP03-20240216DL

Tgt Ion: 59 Resp: 159

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#16

Acetone

Concen: 0.777 ug/l

RT: 2.374 min Scan# 211

Delta R.T. -0.006 min

Lab File: VX040401.D

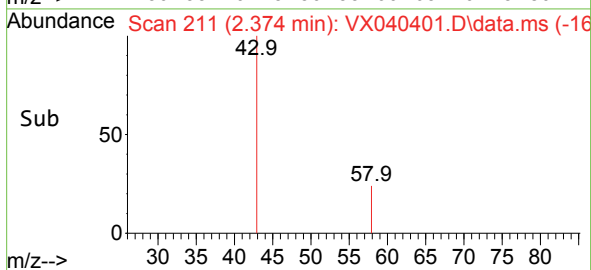
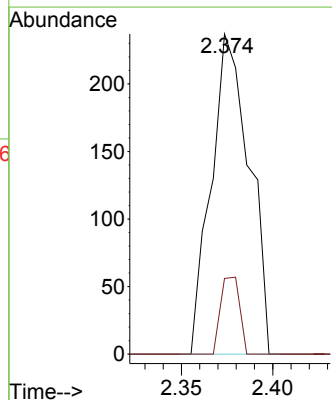
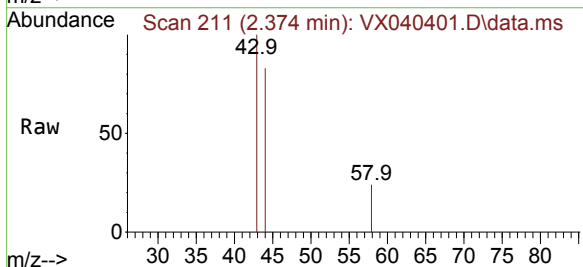
Acq: 22 Feb 2024 15:03

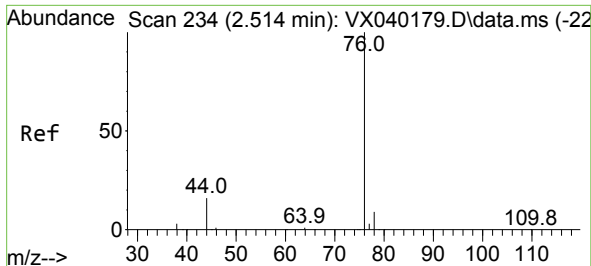
Tgt Ion: 43 Resp: 344

Ion Ratio Lower Upper

43 100

58 23.6 21.9 32.9





#17

Carbon Disulfide

Concen: 0.270 ug/l

RT: 2.514 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX040401.D

Acq: 22 Feb 2024 15:03

Instrument :

MSVOA\_X

ClientSampleId :

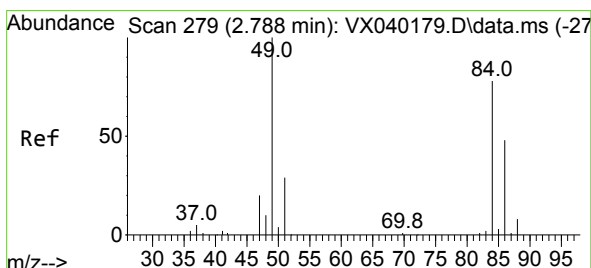
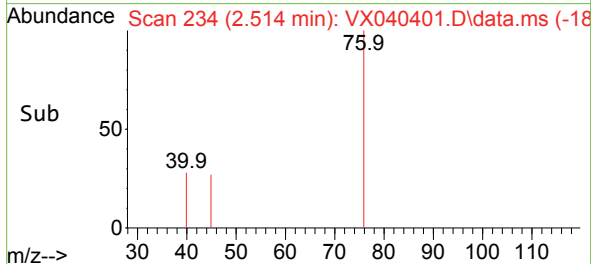
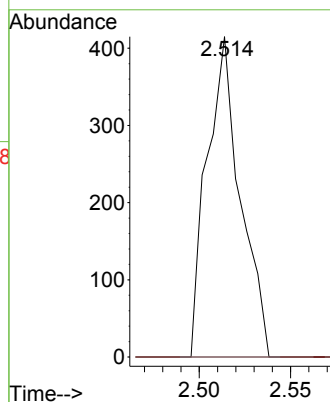
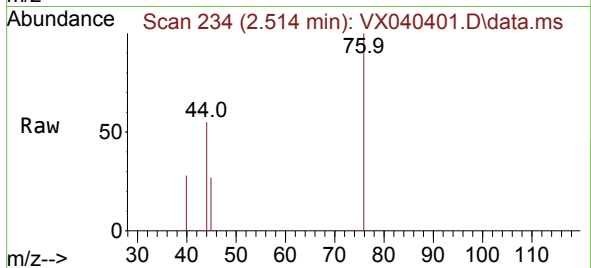
DUP03-20240216DL

Tgt Ion: 76 Resp: 527

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.794 min Scan# 280

Delta R.T. 0.006 min

Lab File: VX040401.D

Acq: 22 Feb 2024 15:03

Tgt Ion: 84 Resp: 348

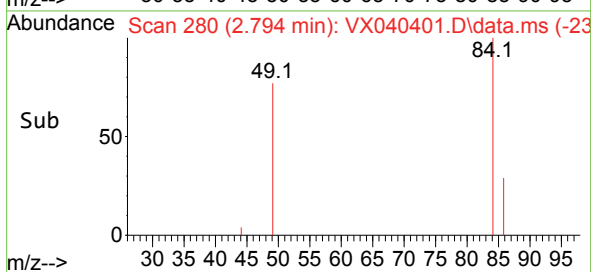
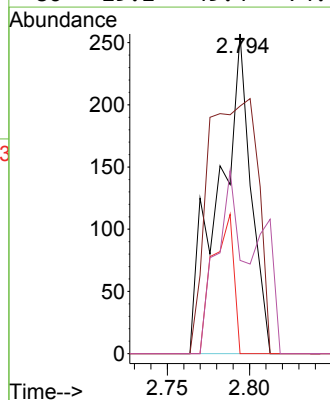
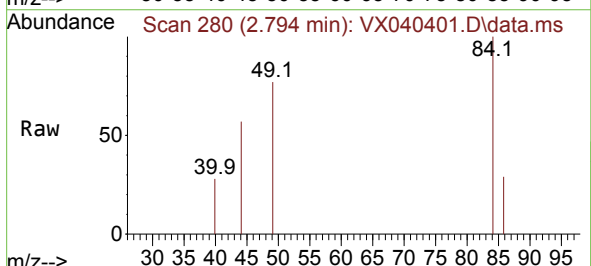
Ion Ratio Lower Upper

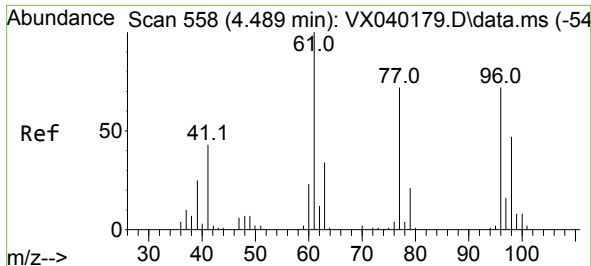
84 100

49 77.4 103.6 155.4#

51 0.0 33.8 50.6#

86 29.2 49.4 74.0#





#27

cis-1,2-Dichloroethene

Concen: 0.342 ug/l

RT: 4.495 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX040401.D

Acq: 22 Feb 2024 15:03

Instrument :

MSVOA\_X

ClientSampleId :

DUP03-20240216DL

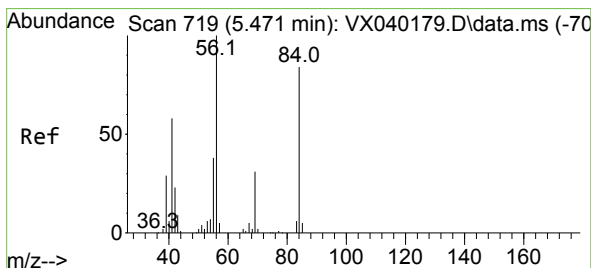
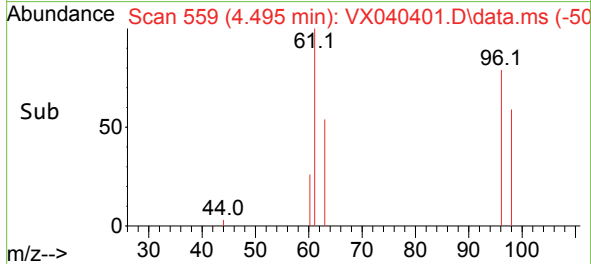
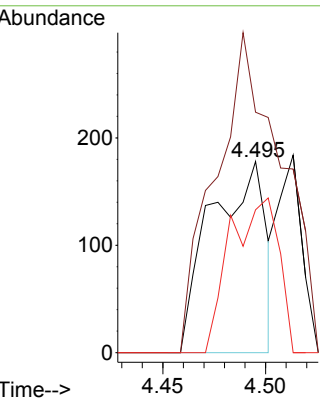
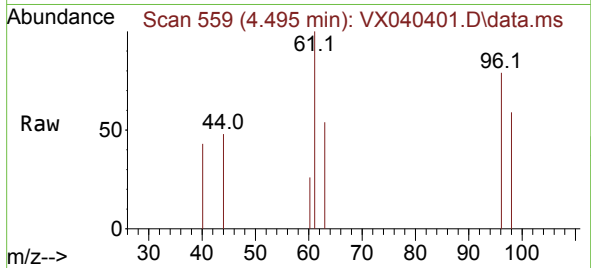
Tgt Ion: 96 Resp: 329

Ion Ratio Lower Upper

96 100

61 202.1 0.0 312.2

98 72.0 0.0 129.0



#31

Cyclohexane

Concen: 1.544 ug/l

RT: 5.556 min Scan# 733

Delta R.T. 0.085 min

Lab File: VX040401.D

Acq: 22 Feb 2024 15:03

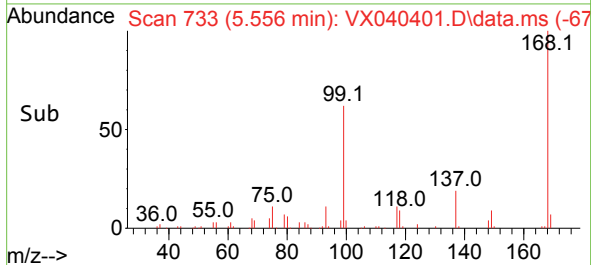
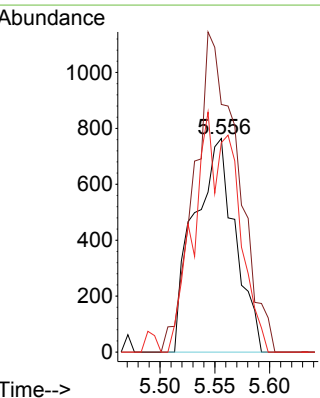
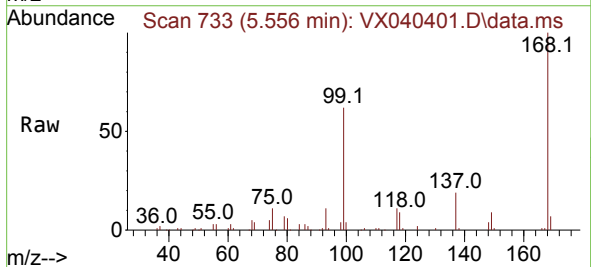
Tgt Ion: 56 Resp: 1986

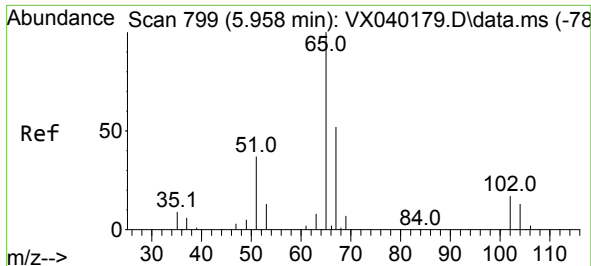
Ion Ratio Lower Upper

56 100

69 104.2 23.4 35.2#

84 98.0 65.9 98.9

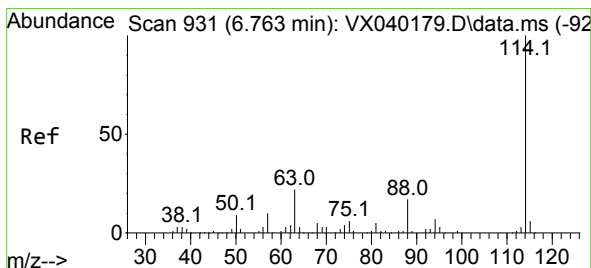
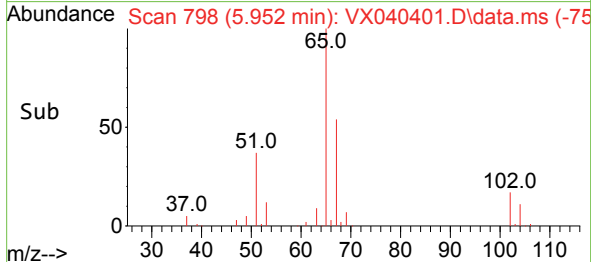
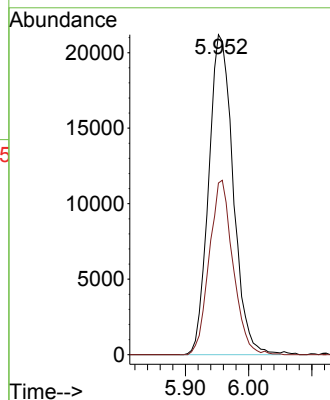
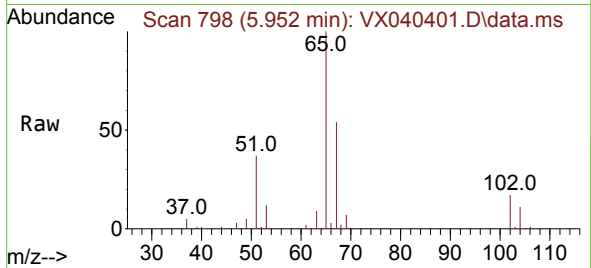




#33  
1,2-Dichloroethane-d4  
Concen: 52.912 ug/l  
RT: 5.952 min Scan# 799  
Delta R.T. -0.006 min  
Lab File: VX040401.D  
Acq: 22 Feb 2024 15:03

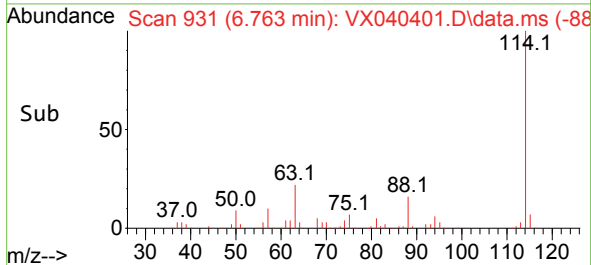
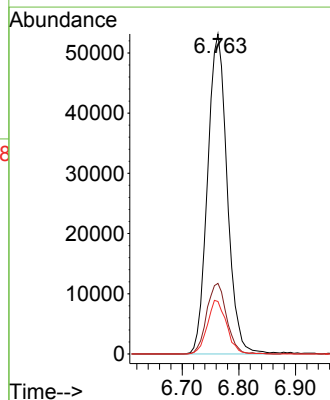
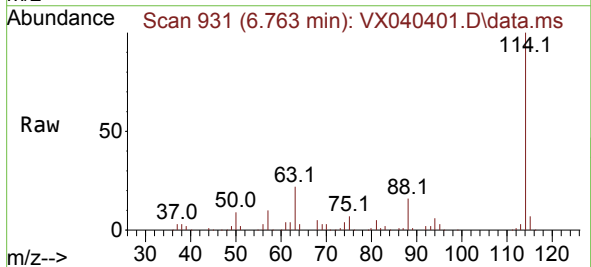
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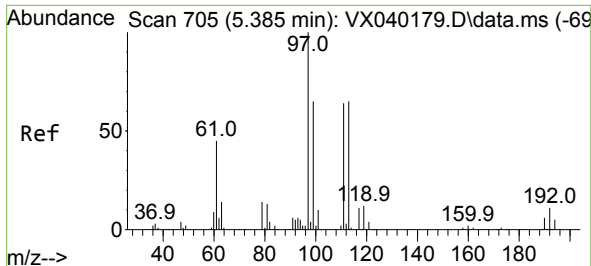
Tgt Ion: 65 Resp: 57047  
Ion Ratio Lower Upper  
65 100  
67 52.9 0.0 100.2



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 931  
Delta R.T. 0.000 min  
Lab File: VX040401.D  
Acq: 22 Feb 2024 15:03

Tgt Ion: 114 Resp: 127701  
Ion Ratio Lower Upper  
114 100  
63 22.1 0.0 45.0  
88 16.4 0.0 36.6

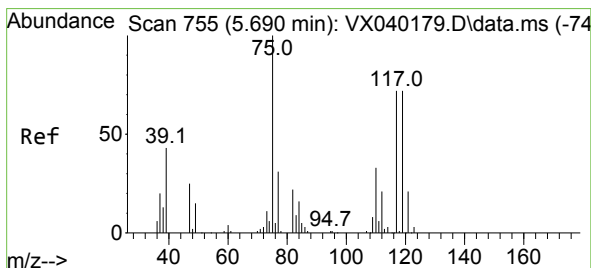
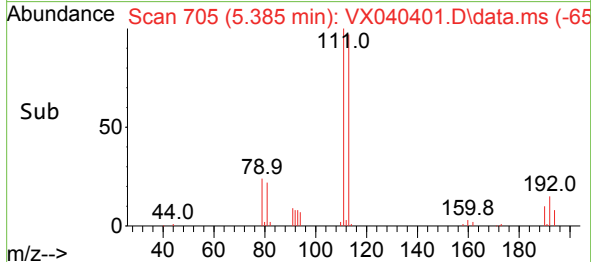
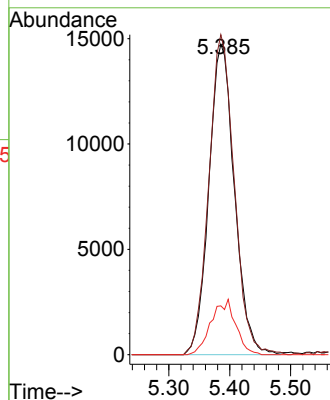
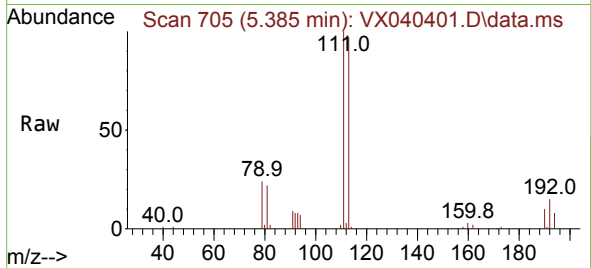




#35  
Dibromofluoromethane  
Concen: 48.128 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX040401.D  
Acq: 22 Feb 2024 15:03

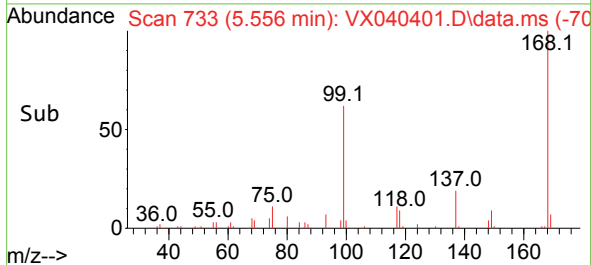
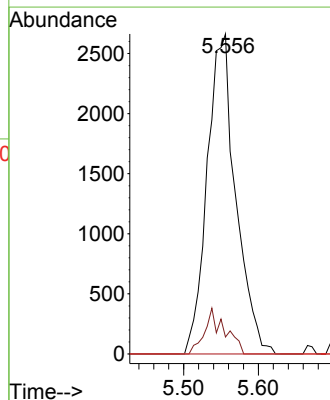
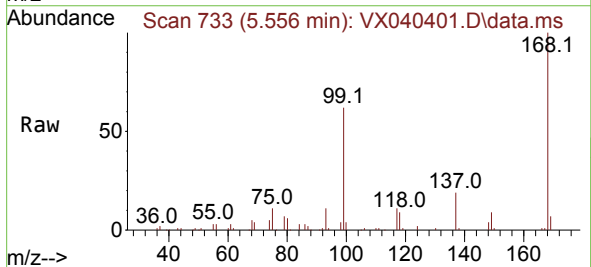
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP03-20240216DL

Tgt Ion:113 Resp: 42920  
Ion Ratio Lower Upper  
113 100  
111 102.6 82.9 124.3  
192 17.1 13.3 19.9

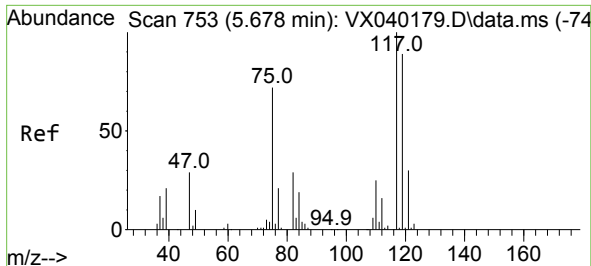


#36  
1,1-Dichloropropene  
Concen: 5.678 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.140 min  
Lab File: VX040401.D  
Acq: 22 Feb 2024 15:03

Tgt Ion: 75 Resp: 7093  
Ion Ratio Lower Upper  
75 100  
110 10.1 17.0 50.9#  
77 0.0 24.7 37.1#







#38

Carbon Tetrachloride

Concen: 6.776 ug/l

RT: 5.556 min Scan# 71

Delta R.T. -0.116 min

Lab File: VX040401.D

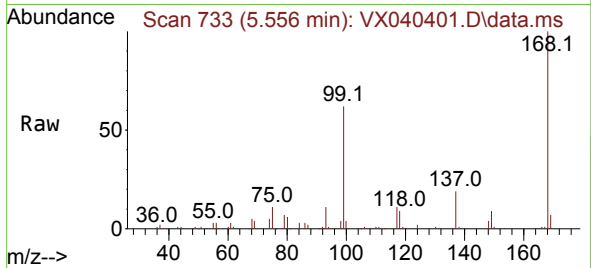
Acq: 22 Feb 2024 15:03

Instrument :

MSVOA\_X

ClientSampleId :

DUP03-20240216DL



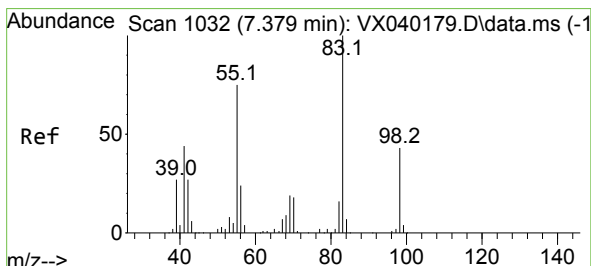
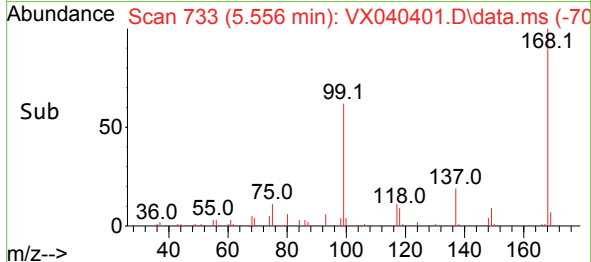
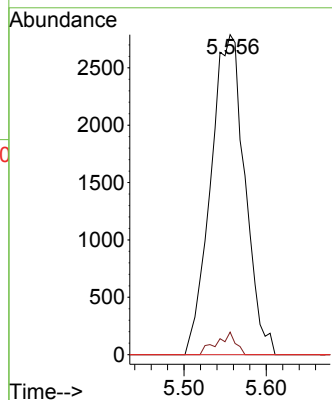
Tgt Ion:117 Resp: 8049

Ion Ratio Lower Upper

117 100

119 7.0 78.2 117.2#

121 0.0 24.4 36.6#



#39

Methylcyclohexane

Concen: 0.322 ug/l

RT: 7.123 min Scan# 990

Delta R.T. -0.256 min

Lab File: VX040401.D

Acq: 22 Feb 2024 15:03

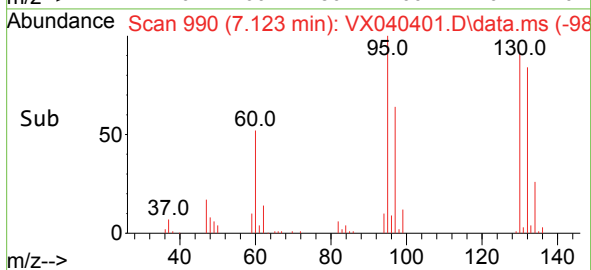
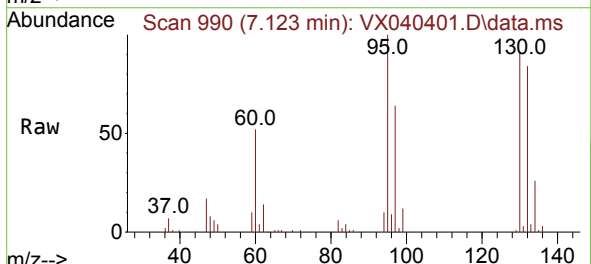
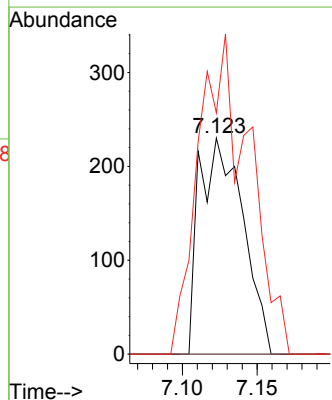
Tgt Ion: 83 Resp: 467

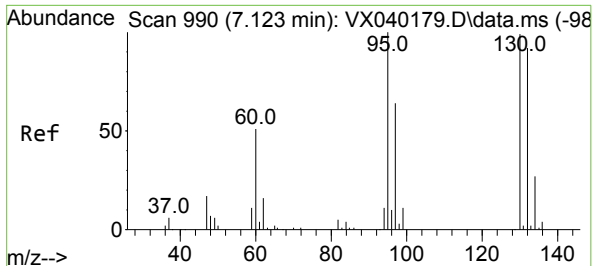
Ion Ratio Lower Upper

83 100

55 0.0 64.6 97.0#

98 84.8 36.7 55.1#

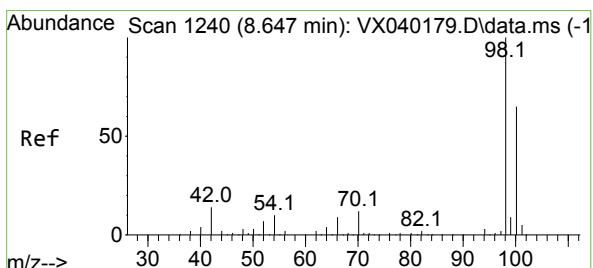
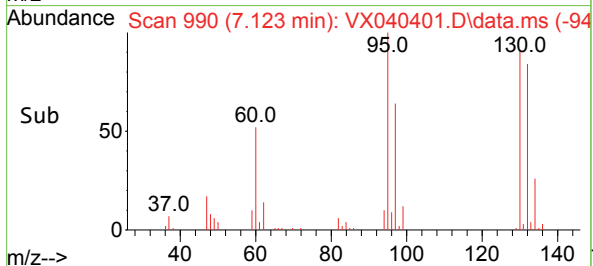
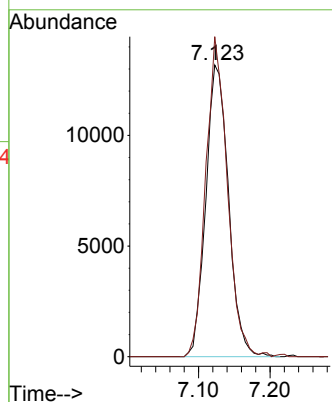
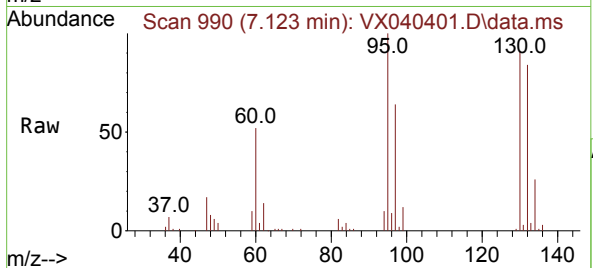




#44  
Trichloroethene  
Concen: 30.243 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. -0.006 min  
Lab File: VX040401.D  
Acq: 22 Feb 2024 15:03

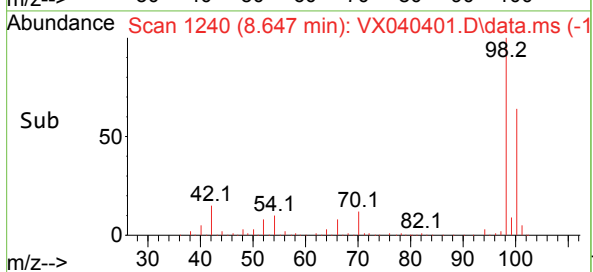
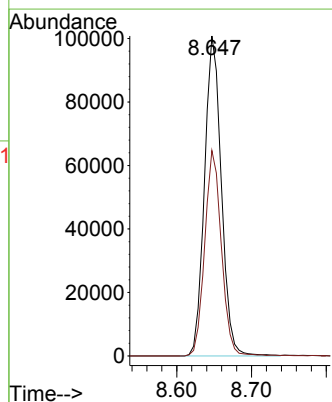
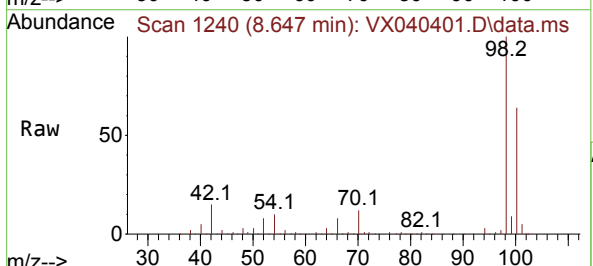
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP03-20240216DL

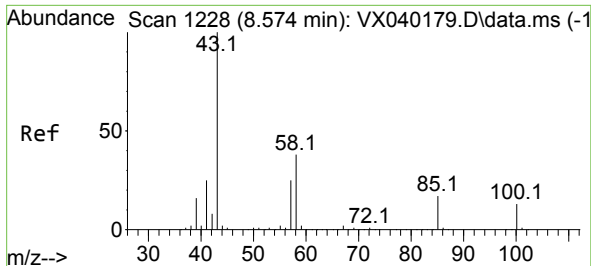
Tgt Ion:130 Resp: 29144  
Ion Ratio Lower Upper  
130 100  
95 109.7 0.0 204.4



#50  
Toluene-d8  
Concen: 47.353 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.006 min  
Lab File: VX040401.D  
Acq: 22 Feb 2024 15:03

Tgt Ion: 98 Resp: 157968  
Ion Ratio Lower Upper  
98 100  
100 63.6 53.1 79.7

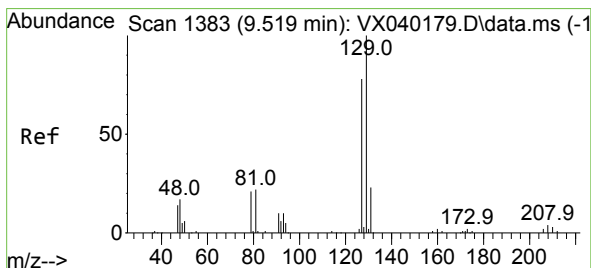
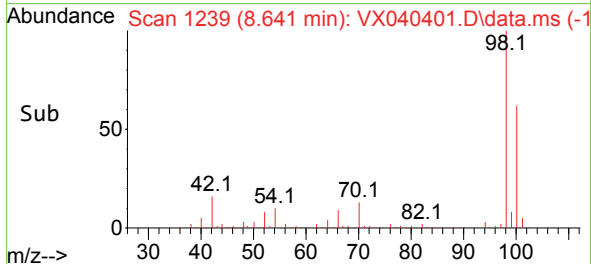
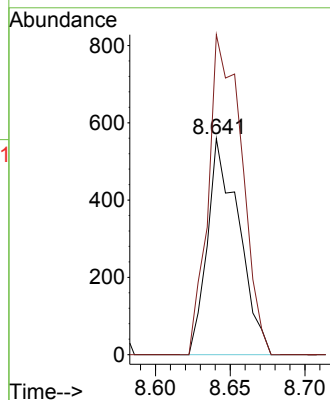
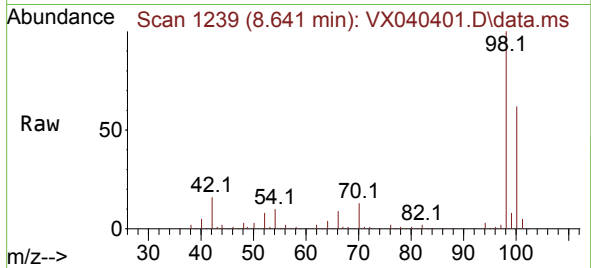




#51  
4-Methyl-2-Pentanone  
Concen: 0.551 ug/l  
RT: 8.641 min Scan# 11  
Delta R.T. 0.067 min  
Lab File: VX040401.D  
Acq: 22 Feb 2024 15:03

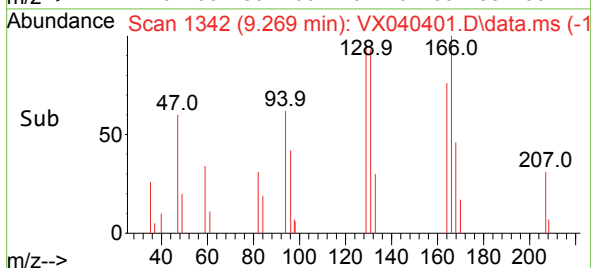
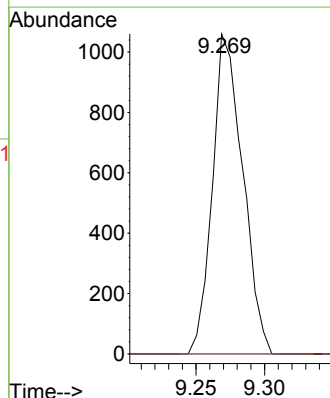
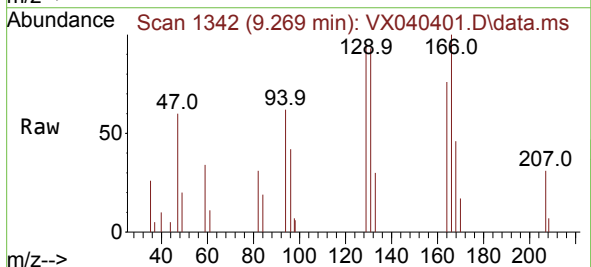
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP03-20240216DL

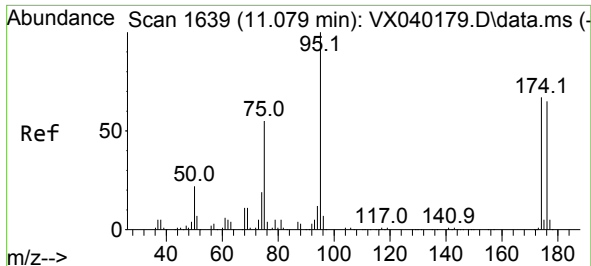
Tgt Ion: 43 Resp: 817  
Ion Ratio Lower Upper  
43 100  
58 157.5 30.4 45.6#



#60  
Dibromochloromethane  
Concen: 1.635 ug/l  
RT: 9.269 min Scan# 1342  
Delta R.T. -0.250 min  
Lab File: VX040401.D  
Acq: 22 Feb 2024 15:03

Tgt Ion: 129 Resp: 1626  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.8 116.4#

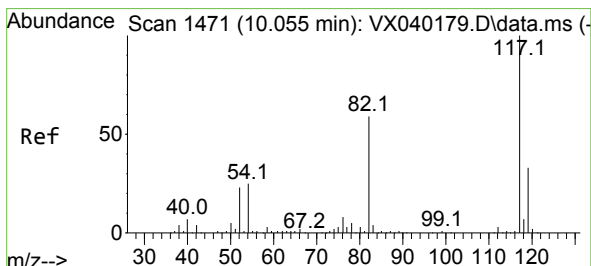
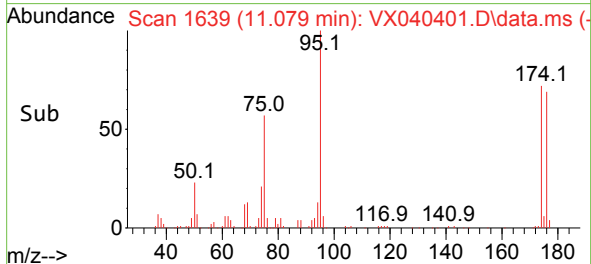
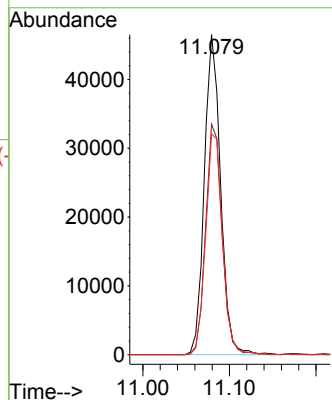
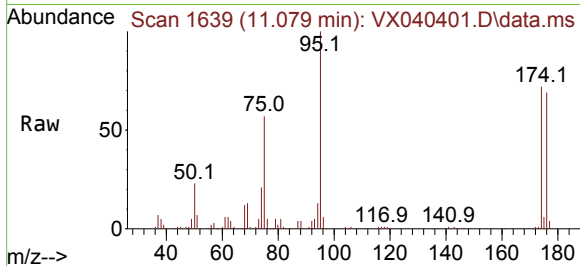




#62  
4-Bromofluorobenzene  
Concen: 44.622 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX040401.D  
Acq: 22 Feb 2024 15:03

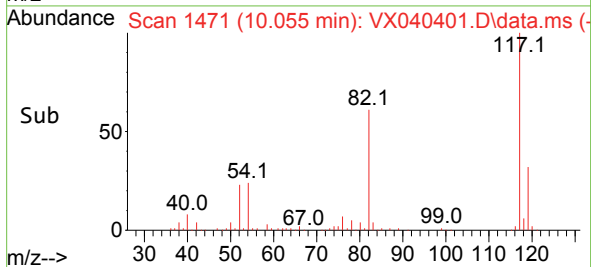
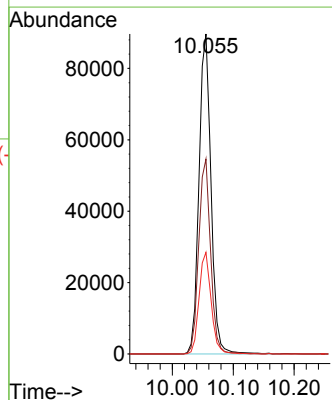
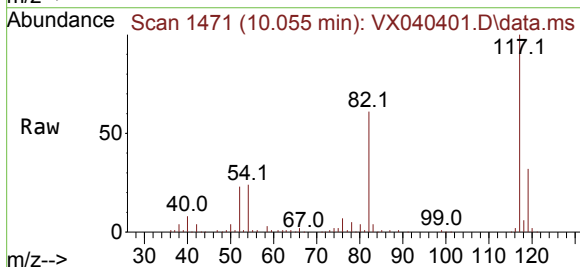
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP03-20240216DL

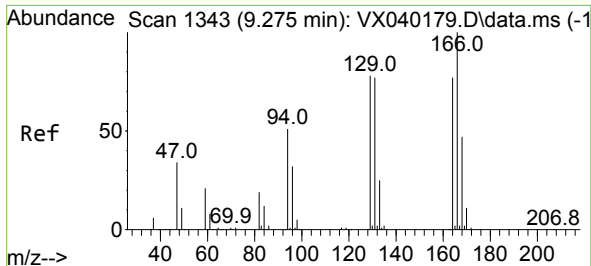
Tgt Ion: 95 Resp: 60710  
Ion Ratio Lower Upper  
95 100  
174 73.0 0.0 135.6  
176 71.1 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX040401.D  
Acq: 22 Feb 2024 15:03

Tgt Ion: 117 Resp: 122500  
Ion Ratio Lower Upper  
117 100  
82 60.9 46.2 69.4  
119 31.8 25.5 38.3

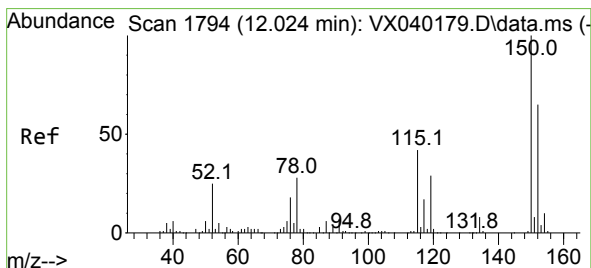
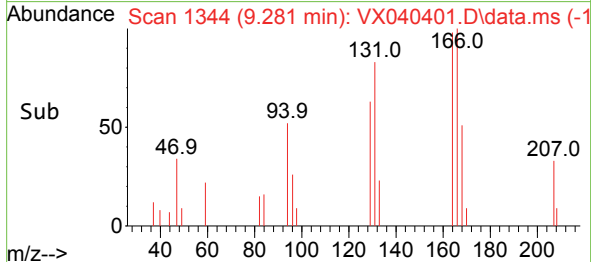
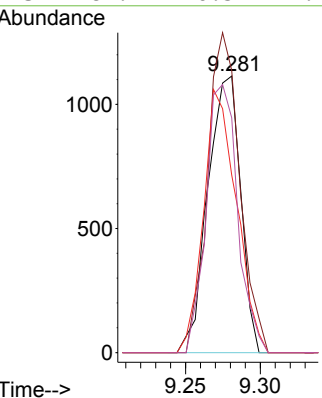
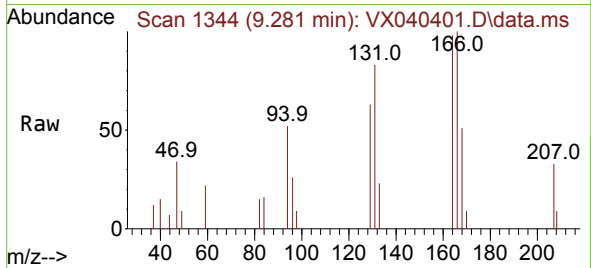




#64  
Tetrachloroethene  
Concen: 1.976 ug/l  
RT: 9.281 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX040401.D  
Acq: 22 Feb 2024 15:03

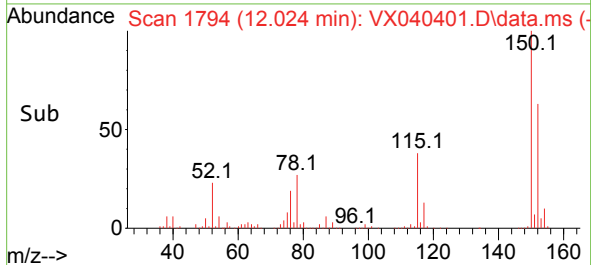
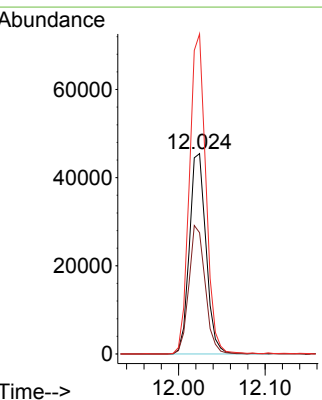
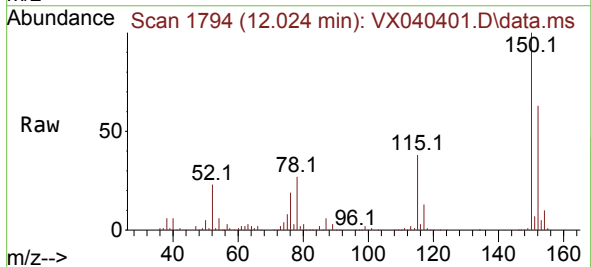
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP03-20240216DL

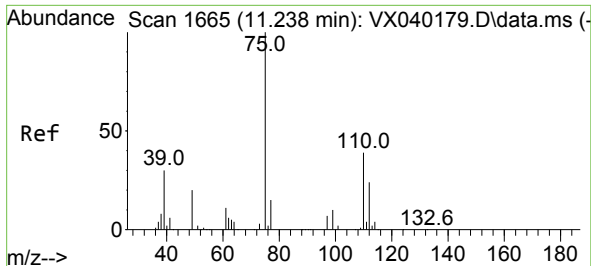
Tgt Ion:164 Resp: 1696  
Ion Ratio Lower Upper  
164 100  
166 102.1 102.7 154.1#  
129 64.2 80.4 120.6#  
131 84.9 76.5 114.7



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX040401.D  
Acq: 22 Feb 2024 15:03

Tgt Ion:152 Resp: 60631  
Ion Ratio Lower Upper  
152 100  
115 62.9 43.3 129.9  
150 158.3 0.0 345.0

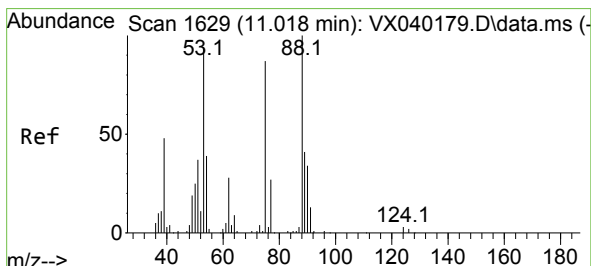
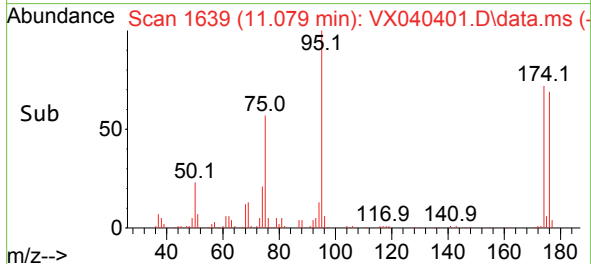
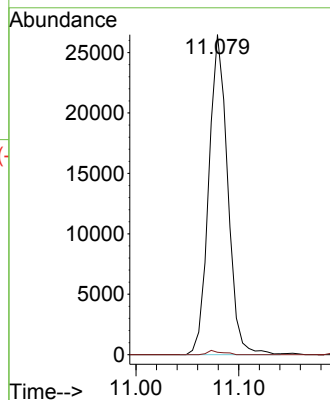
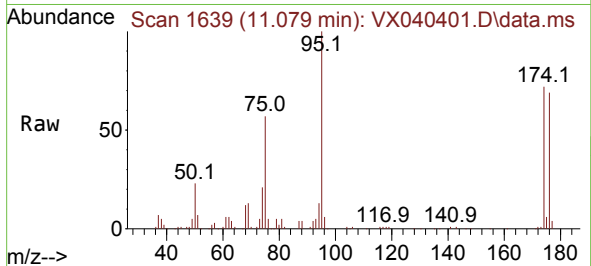




#76  
1,2,3-Trichloropropane  
Concen: 27.631 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX040401.D  
Acq: 22 Feb 2024 15:03

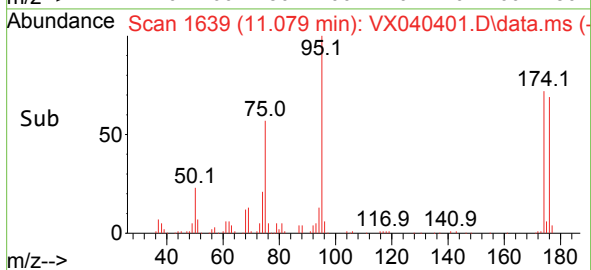
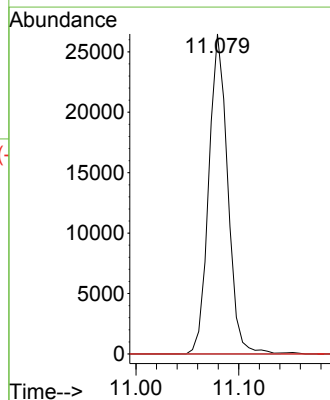
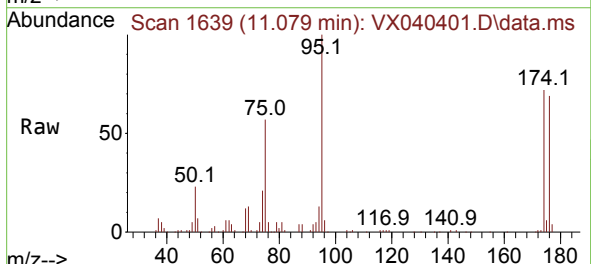
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP03-20240216DL

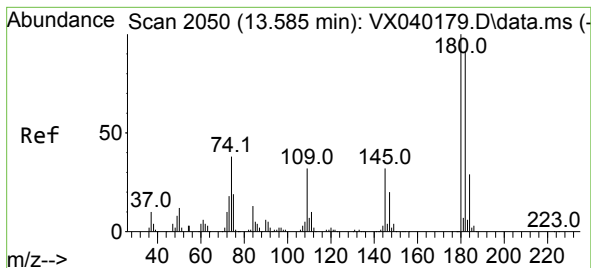
Tgt Ion: 75 Resp: 33925  
Ion Ratio Lower Upper  
75 100  
77 1.0 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 75.631 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX040401.D  
Acq: 22 Feb 2024 15:03

Tgt Ion: 75 Resp: 33925  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#

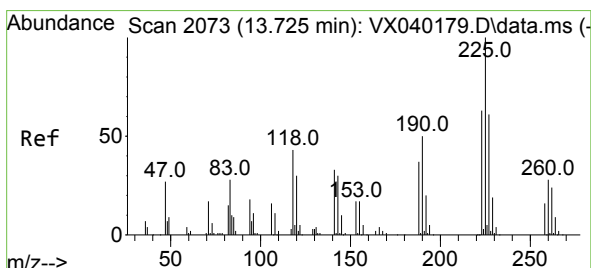
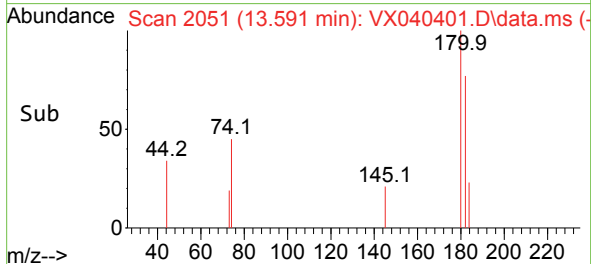
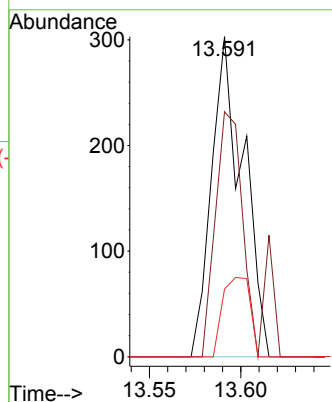
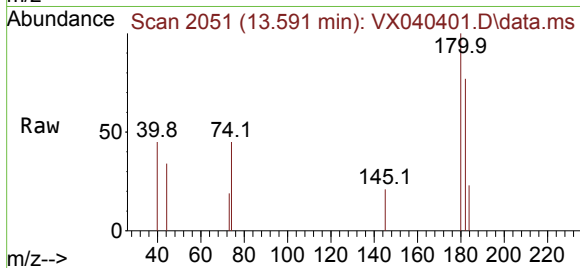




#93  
1,2,4-Trichlorobenzene  
Concen: 0.276 ug/l  
RT: 13.591 min Scan# 2051  
Delta R.T. 0.006 min  
Lab File: VX040401.D  
Acq: 22 Feb 2024 15:03

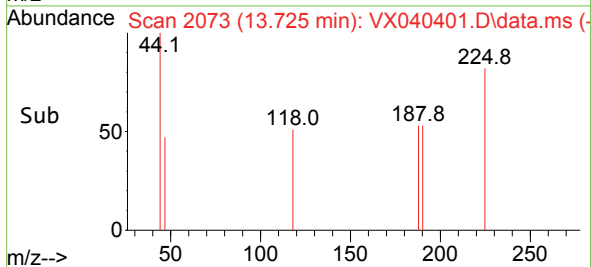
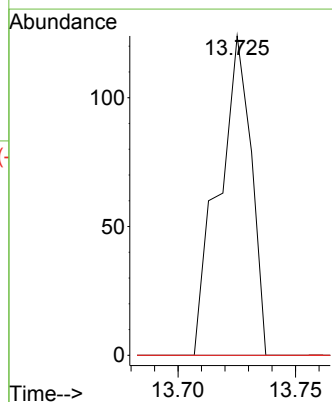
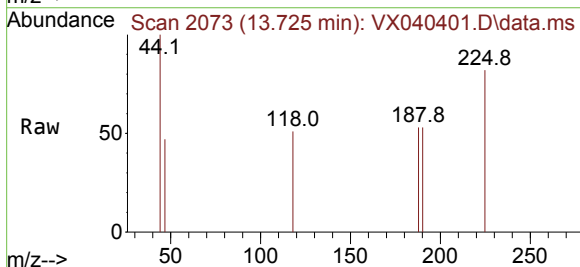
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP03-20240216DL

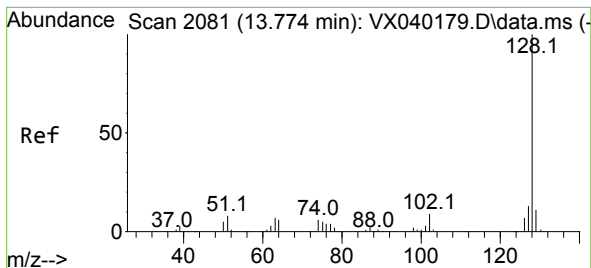
Tgt Ion:180 Resp: 365  
Ion Ratio Lower Upper  
180 100  
182 64.9 48.3 144.8  
145 21.4 18.0 54.0



#94  
Hexachlorobutadiene  
Concen: 0.225 ug/l  
RT: 13.725 min Scan# 2073  
Delta R.T. 0.000 min  
Lab File: VX040401.D  
Acq: 22 Feb 2024 15:03

Tgt Ion:225 Resp: 119  
Ion Ratio Lower Upper  
225 100  
223 0.0 31.1 93.2#  
227 0.0 32.5 97.5#





#95

Naphthalene

Concen: 0.210 ug/l

RT: 13.780 min Scan# 2081

Delta R.T. 0.006 min

Lab File: VX040401.D

Acq: 22 Feb 2024 15:03

Instrument :

MSVOA\_X

ClientSampleId :

DUP03-20240216DL

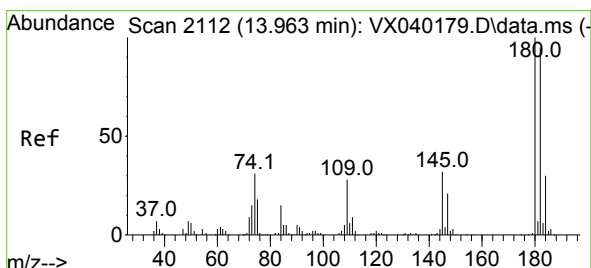
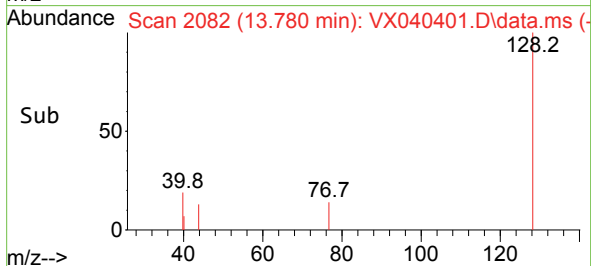
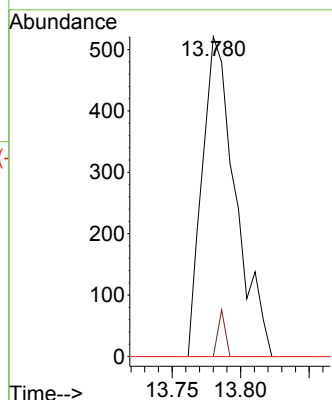
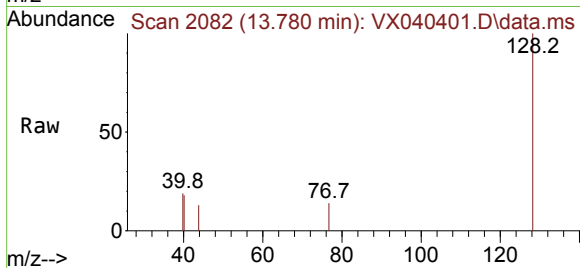
Tgt Ion:128 Resp: 878

Ion Ratio Lower Upper

128 100

127 3.2 10.3 15.5#

129 0.0 8.8 13.2#



#96

1,2,3-Trichlorobenzene

Concen: 0.234 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. 0.000 min

Lab File: VX040401.D

Acq: 22 Feb 2024 15:03

Tgt Ion:180 Resp: 296

Ion Ratio Lower Upper

180 100

182 75.7 46.9 140.6

145 30.1 17.8 53.5

