

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX022724\  
 Data File : VX040490.D  
 Acq On : 27 Feb 2024 15:26  
 Operator : JC/MD  
 Sample : P1578-16  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

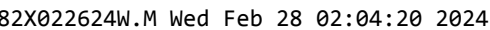
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE122D1-20240221

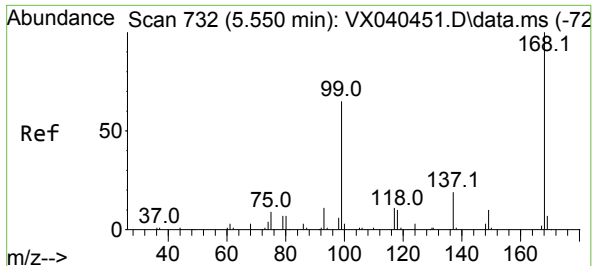
Quant Time: Feb 28 02:04:08 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X022624W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 27 05:01:33 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 65609    | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 117580   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 115245   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 58858    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 54117    | 49.316   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 98.640%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 39333    | 48.105   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 96.220%  |
| 50) Toluene-d8                | 8.647  | 98    | 145679   | 49.084   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 98.160%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 57211    | 50.569   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 101.140% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 9) 1,1,2-Trichlorotrifluo...  | 2.325  | 101   | 1307     | 1.755    | ug/l   | 92       |
| 11) Tert butyl alcohol        | 2.959  | 59    | 41       | 0.222    | ug/l # | 78       |
| 12) 1,1-Dichloroethene        | 2.325  | 96    | 270      | 0.361    | ug/l # | 51       |
| 13) Acrolein                  | 2.233  | 56    | 49       | 0.414    | ug/l # | 71       |
| 16) Acetone                   | 2.380  | 43    | 1840     | 5.142    | ug/l   | 98       |
| 18) Methyl Acetate            | 2.544  | 43    | 592      | 0.537    | ug/l # | 53       |
| 27) cis-1,2-Dichloroethene    | 4.483  | 96    | 1181     | 1.266    | ug/l   | 71       |
| 31) Cyclohexane               | 5.556  | 56    | 1823     | 1.466    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 6203     | 4.924    | ug/l # | 49       |
| 39) Methylcyclohexane         | 7.123  | 83    | 2915     | 2.143    | ug/l # | 1        |
| 44) Trichloroethene           | 7.129  | 130   | 199269   | 217.248  | ug/l   | 95       |
| 49) 1,4-Dioxane               | 7.690  | 88    | 250      | 12.223   | ug/l # | 42       |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 698      | 0.488    | ug/l # | 1        |
| 60) Dibromochloromethane      | 9.275  | 129   | 1717     | 1.820    | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.275  | 164   | 1725     | 2.132    | ug/l   | 86       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 32792    | 25.315   | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 32792    | 73.849   | ug/l # | 5        |
| -----                         |        |       |          |          |        |          |

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

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QLast Update : Tue Feb 27 05:01:33 2024  
Response via : Initial Calibration

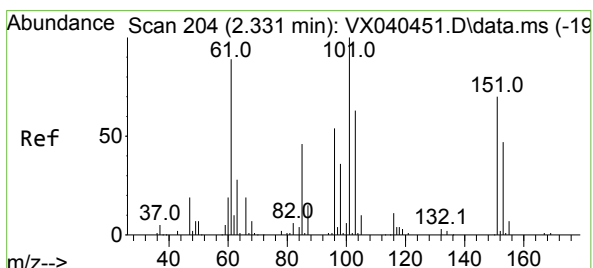
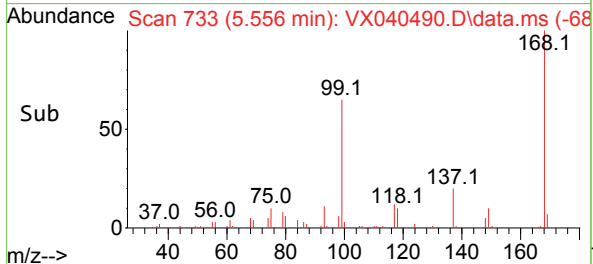
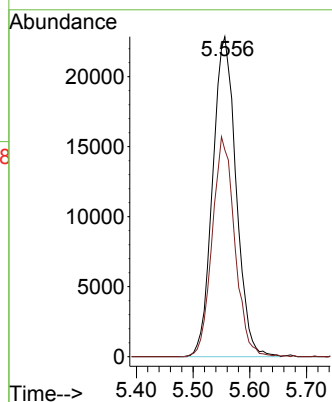
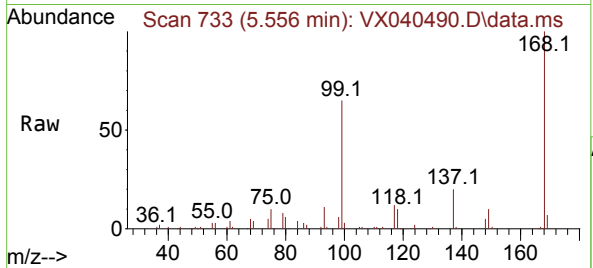




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX040490.D  
Acq: 27 Feb 2024 15:26

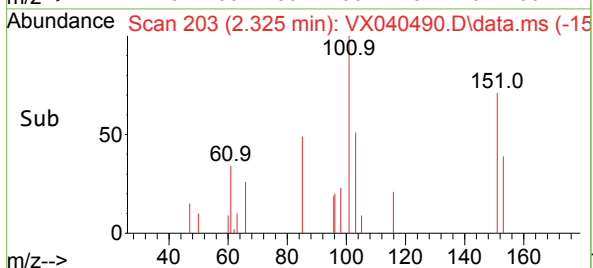
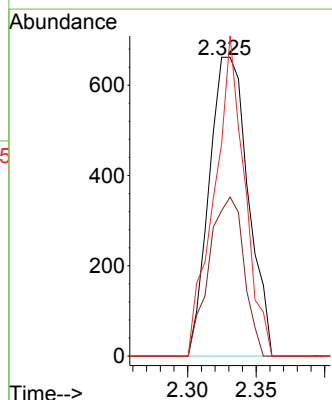
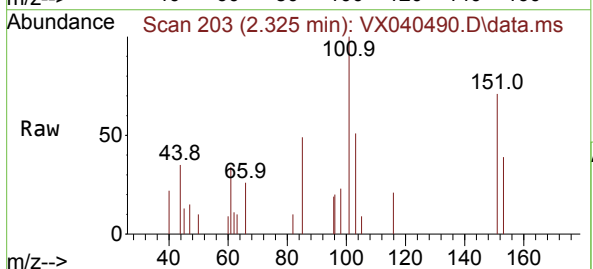
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE122D1-20240221

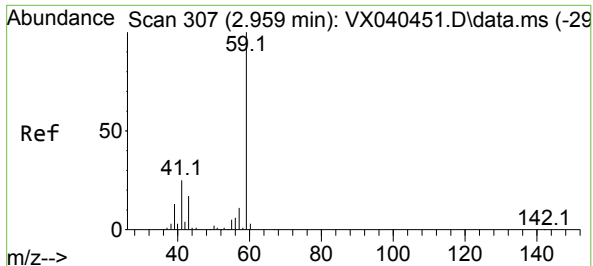
Tgt Ion:168 Resp: 65609  
Ion Ratio Lower Upper  
168 100  
99 64.6 56.6 85.0



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 1.755 ug/l  
RT: 2.325 min Scan# 203  
Delta R.T. -0.006 min  
Lab File: VX040490.D  
Acq: 27 Feb 2024 15:26

Tgt Ion:101 Resp: 1307  
Ion Ratio Lower Upper  
101 100  
85 47.8 37.0 55.6  
151 83.5 58.6 87.8





#11

Tert butyl alcohol

Concen: 0.222 ug/l

RT: 2.959 min Scan# 307

Delta R.T. -0.000 min

Lab File: VX040490.D

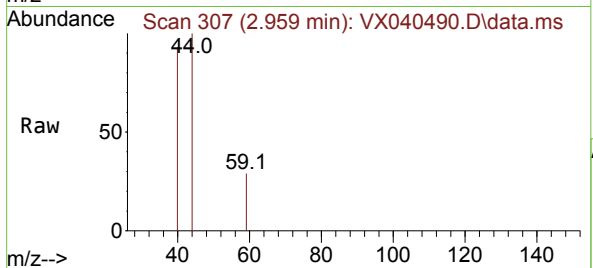
Acq: 27 Feb 2024 15:26

Instrument :

MSVOA\_X

ClientSampleId :

RE122D1-20240221

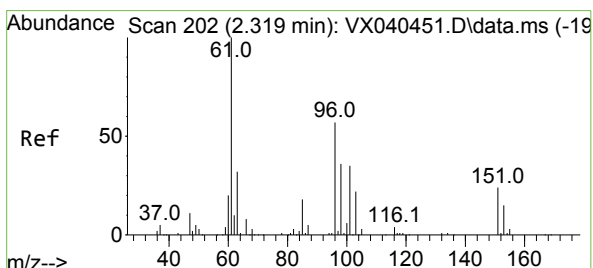
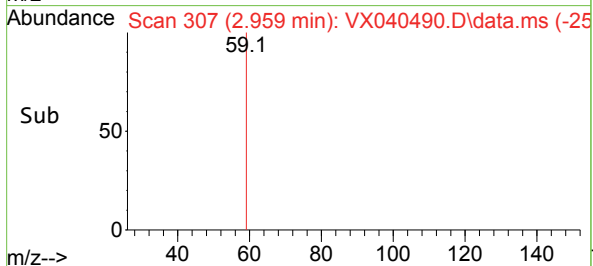
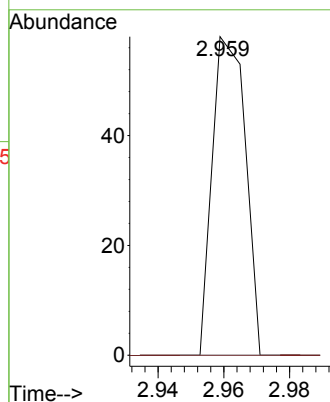


Tgt Ion: 59 Resp: 41

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#12

1,1-Dichloroethene

Concen: 0.361 ug/l

RT: 2.325 min Scan# 203

Delta R.T. 0.006 min

Lab File: VX040490.D

Acq: 27 Feb 2024 15:26

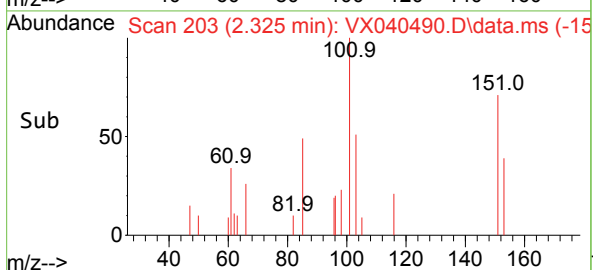
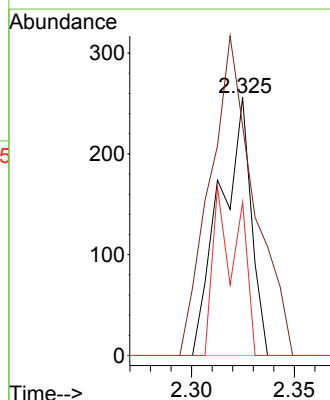
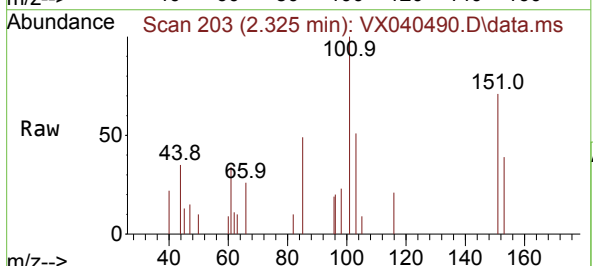
Tgt Ion: 96 Resp: 270

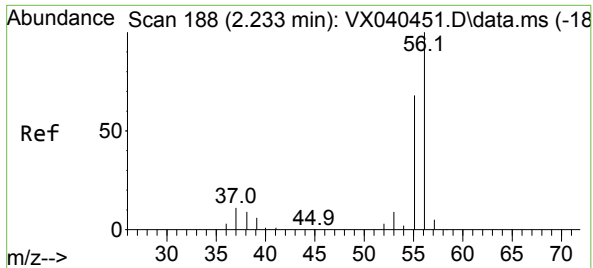
Ion Ratio Lower Upper

96 100

61 89.1 144.6 216.8#

98 59.4 50.4 75.6

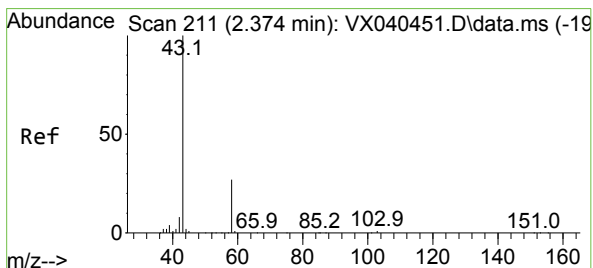
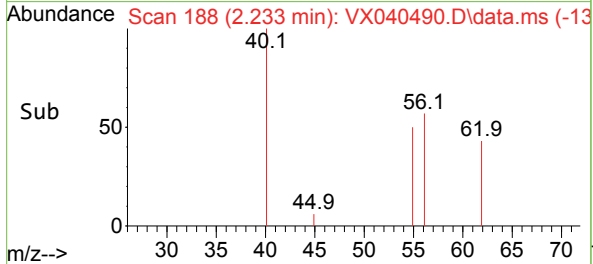
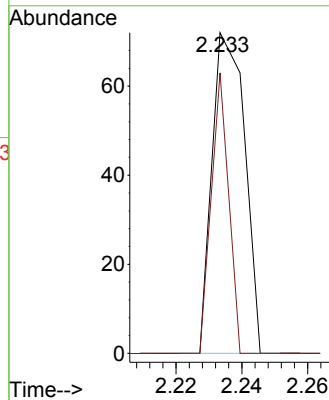
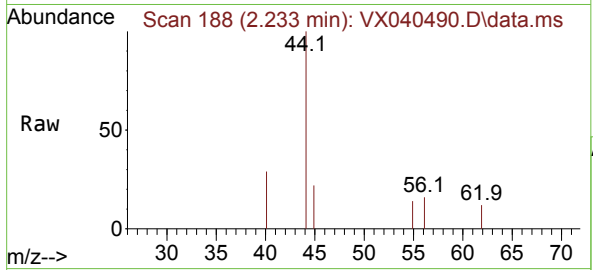




#13  
Acrolein  
Concen: 0.414 ug/l  
RT: 2.233 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX040490.D  
Acq: 27 Feb 2024 15:26

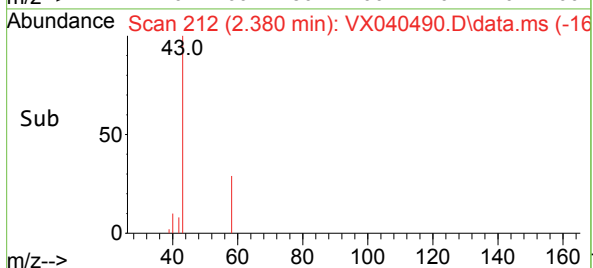
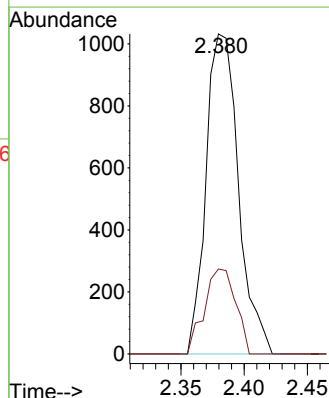
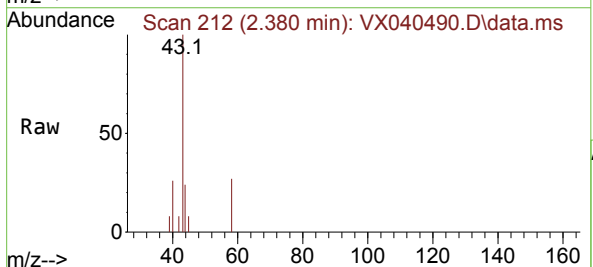
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE122D1-20240221

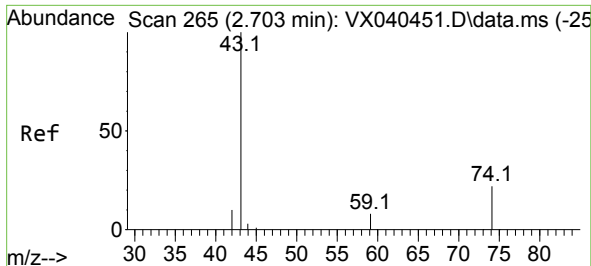
Tgt Ion: 56 Resp: 49  
Ion Ratio Lower Upper  
56 100  
55 46.9 57.1 85.7#



#16  
Acetone  
Concen: 5.142 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. 0.006 min  
Lab File: VX040490.D  
Acq: 27 Feb 2024 15:26

Tgt Ion: 43 Resp: 1840  
Ion Ratio Lower Upper  
43 100  
58 26.6 21.9 32.9





#18

Methyl Acetate

Concen: 0.537 ug/l

RT: 2.544 min Scan# 21

Delta R.T. -0.159 min

Lab File: VX040490.D

Acq: 27 Feb 2024 15:26

Instrument :

MSVOA\_X

ClientSampleId :

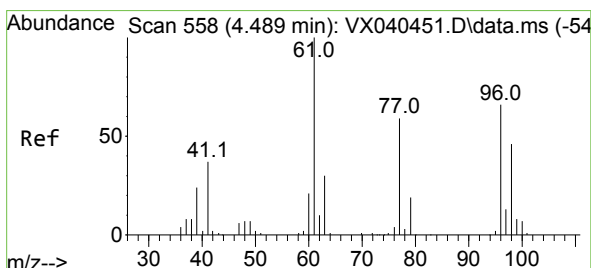
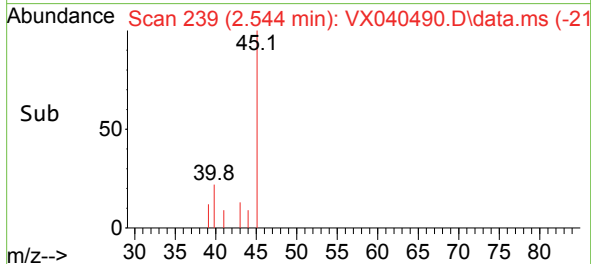
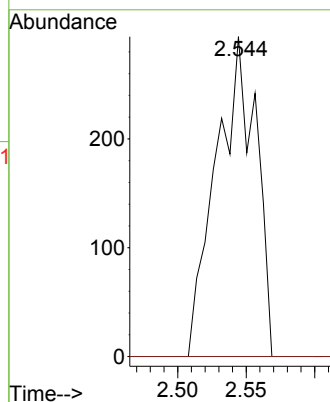
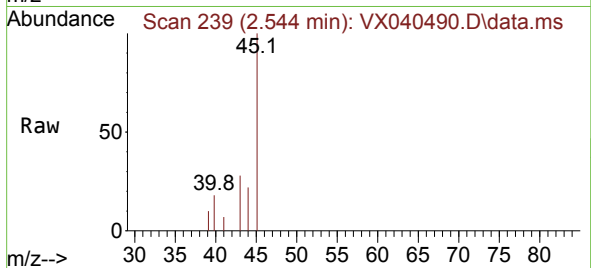
RE122D1-20240221

Tgt Ion: 43 Resp: 592

Ion Ratio Lower Upper

43 100

74 0.0 17.8 26.8#



#27

cis-1,2-Dichloroethene

Concen: 1.266 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.006 min

Lab File: VX040490.D

Acq: 27 Feb 2024 15:26

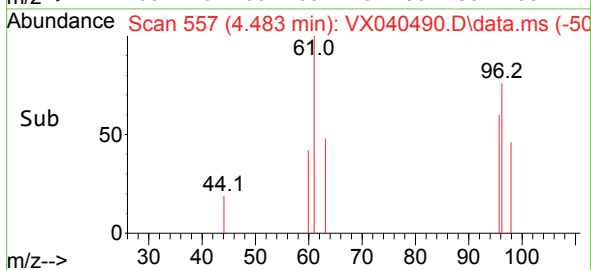
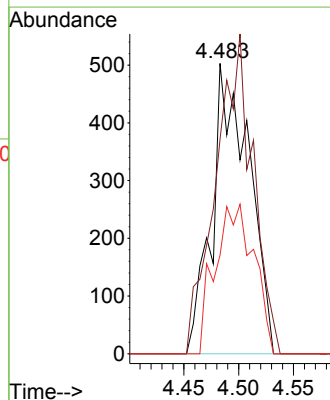
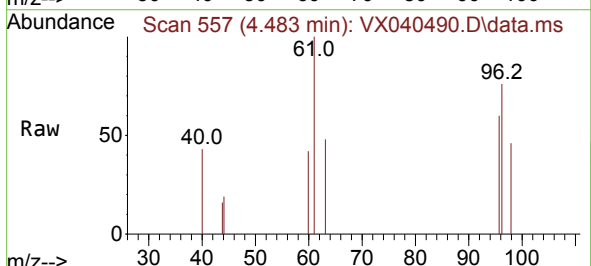
Tgt Ion: 96 Resp: 1181

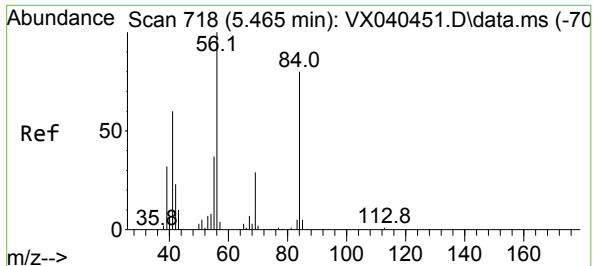
Ion Ratio Lower Upper

96 100

61 110.7 0.0 312.2

98 54.0 0.0 129.0

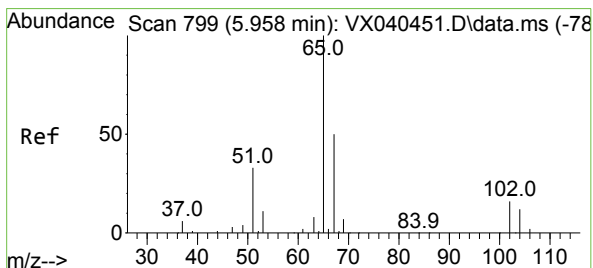
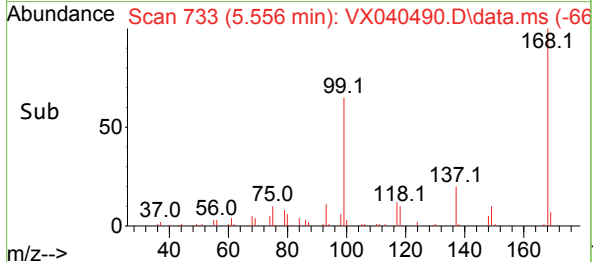
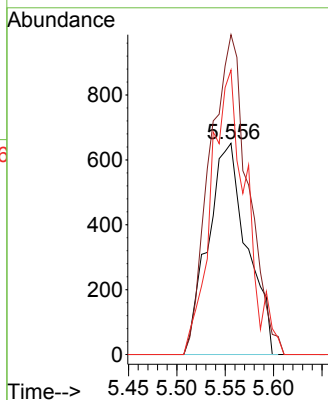
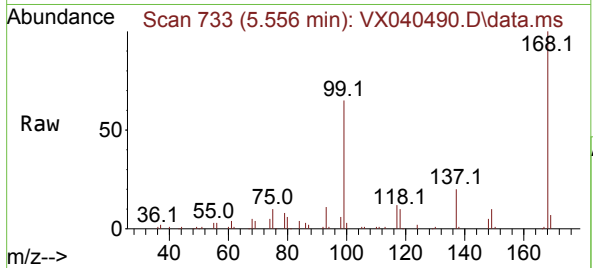




#31  
Cyclohexane  
Concen: 1.466 ug/l  
RT: 5.556 min Scan# 718  
Delta R.T. 0.091 min  
Lab File: VX040490.D  
Acq: 27 Feb 2024 15:26

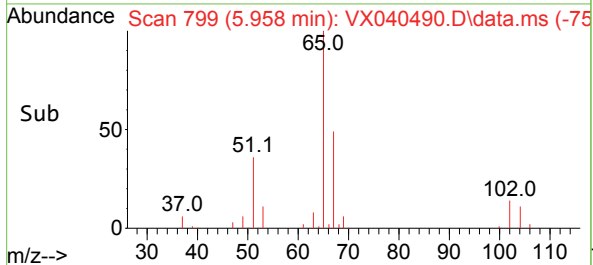
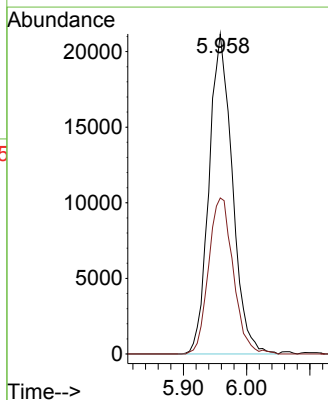
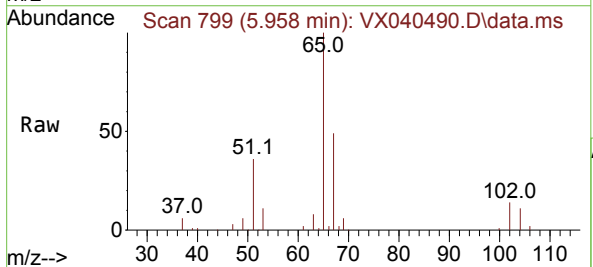
Instrument :  
MSVOA\_X  
ClientSampleId :  
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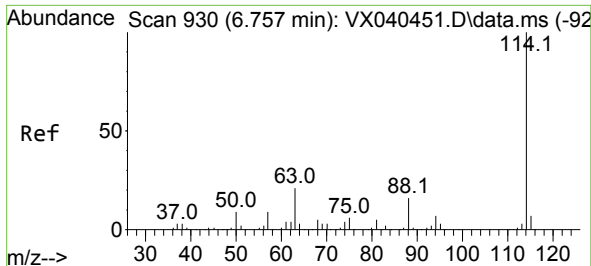
Tgt Ion: 56 Resp: 1823  
Ion Ratio Lower Upper  
56 100  
69 151.5 23.4 35.2#  
84 134.7 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 49.316 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. -0.000 min  
Lab File: VX040490.D  
Acq: 27 Feb 2024 15:26

Tgt Ion: 65 Resp: 54117  
Ion Ratio Lower Upper  
65 100  
67 51.6 0.0 100.2

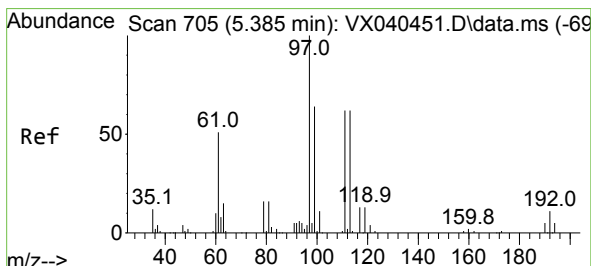
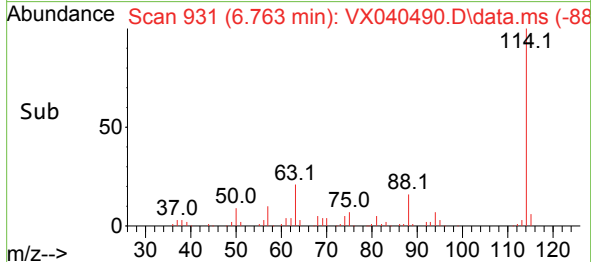
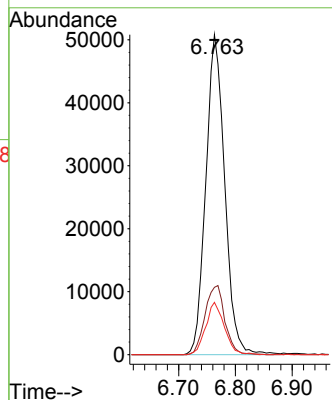
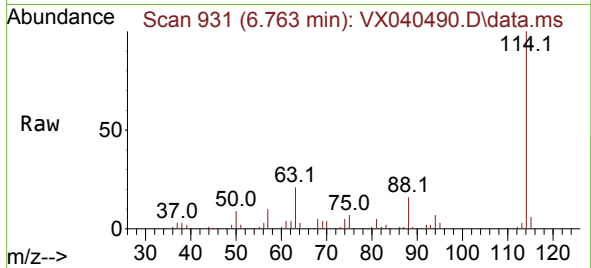




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 911  
Delta R.T. 0.006 min  
Lab File: VX040490.D  
Acq: 27 Feb 2024 15:26

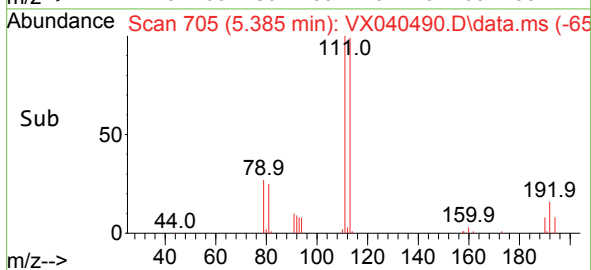
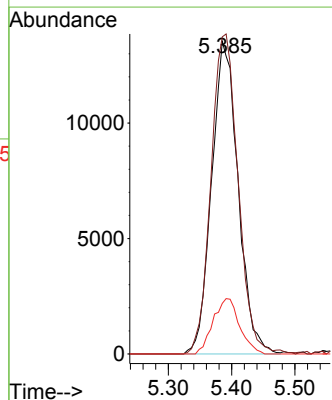
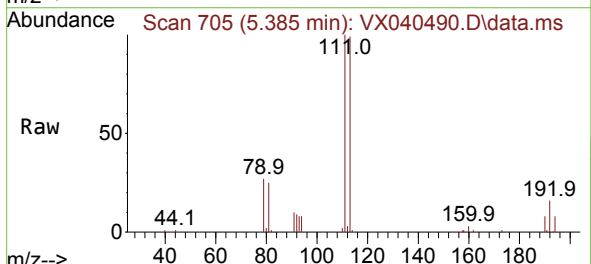
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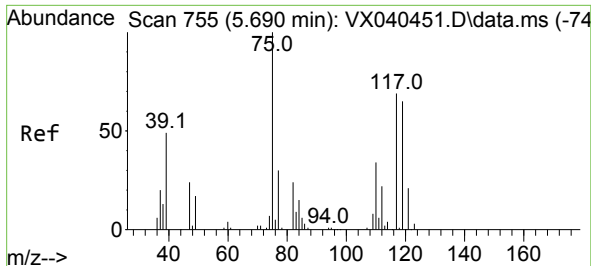
Tgt Ion:114 Resp: 117580  
Ion Ratio Lower Upper  
114 100  
63 21.1 0.0 45.0  
88 16.4 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 48.105 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX040490.D  
Acq: 27 Feb 2024 15:26

Tgt Ion:113 Resp: 39333  
Ion Ratio Lower Upper  
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111 104.8 82.9 124.3  
192 17.7 13.3 19.9

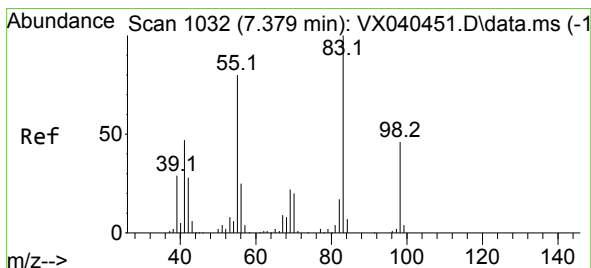
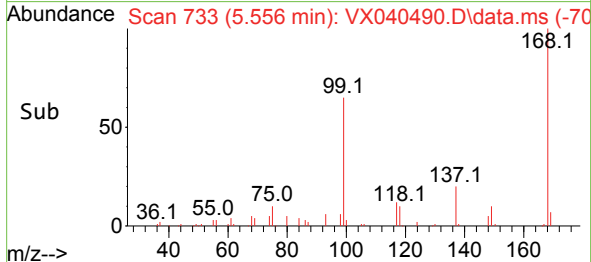
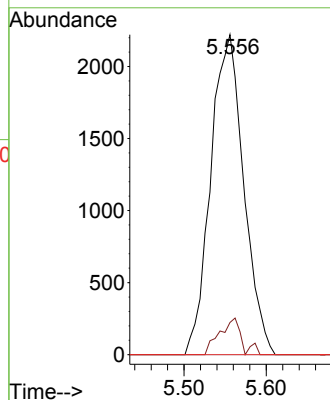
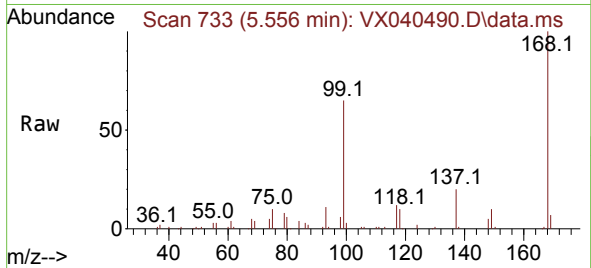




#36  
1,1-Dichloropropene  
Concen: 4.924 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.134 min  
Lab File: VX040490.D  
Acq: 27 Feb 2024 15:26

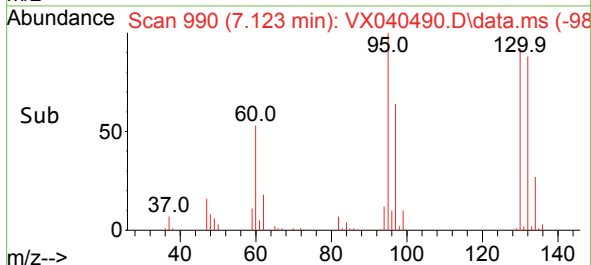
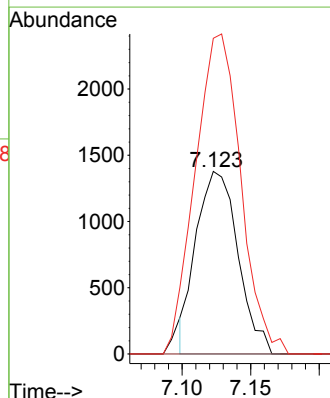
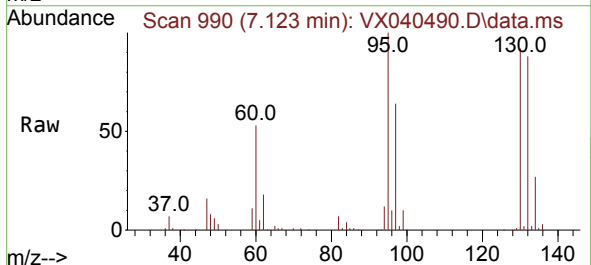
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE122D1-20240221

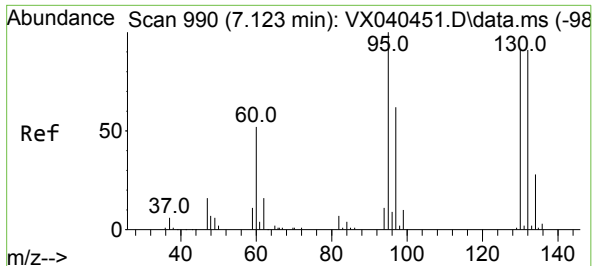
Tgt Ion: 75 Resp: 6203  
Ion Ratio Lower Upper  
75 100  
110 7.6 17.0 50.9#  
77 0.0 24.7 37.1#



#39  
Methylcyclohexane  
Concen: 2.143 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. -0.256 min  
Lab File: VX040490.D  
Acq: 27 Feb 2024 15:26

Tgt Ion: 83 Resp: 2915  
Ion Ratio Lower Upper  
83 100  
55 0.0 64.6 97.0#  
98 164.5 36.7 55.1#

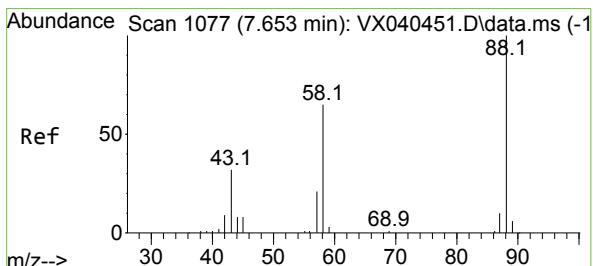
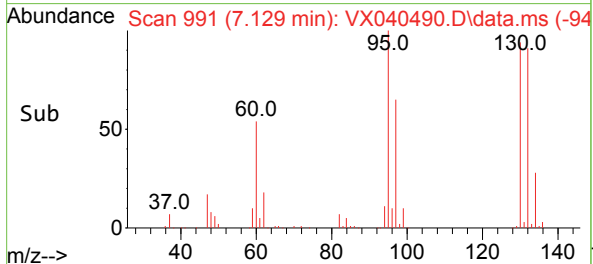
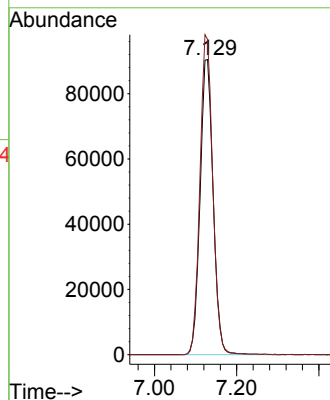
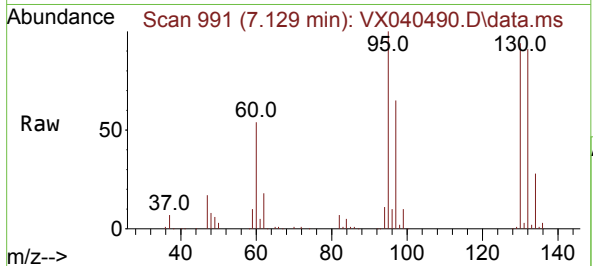




#44  
Trichloroethene  
Concen: 217.248 ug/l  
RT: 7.129 min Scan# 990  
Delta R.T. 0.006 min  
Lab File: VX040490.D  
Acq: 27 Feb 2024 15:26

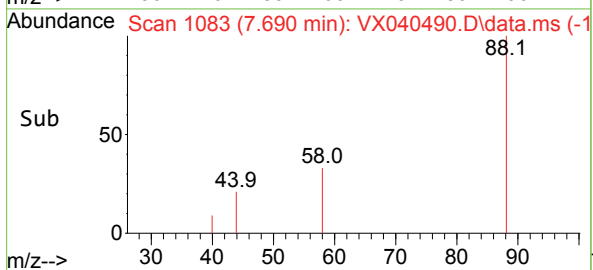
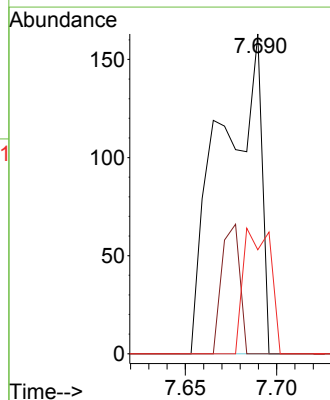
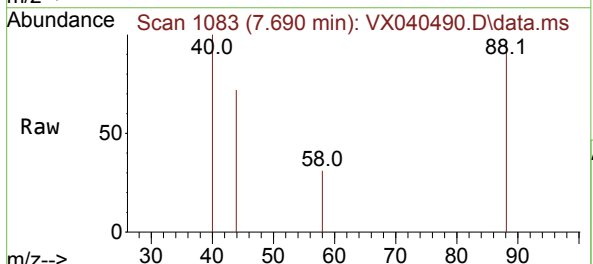
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE122D1-20240221

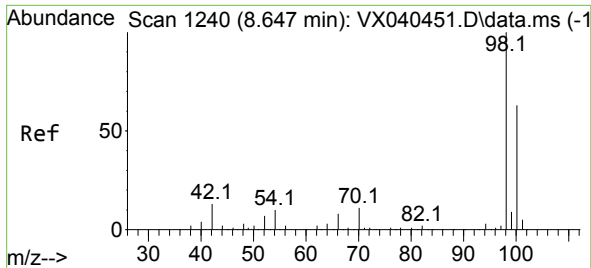
Tgt Ion:130 Resp: 199269  
Ion Ratio Lower Upper  
130 100  
95 106.8 0.0 204.4



#49  
1,4-Dioxane  
Concen: 12.223 ug/l  
RT: 7.690 min Scan# 1083  
Delta R.T. 0.037 min  
Lab File: VX040490.D  
Acq: 27 Feb 2024 15:26

Tgt Ion: 88 Resp: 250  
Ion Ratio Lower Upper  
88 100  
43 18.0 0.0 0.0#  
58 26.0 60.1 90.1#

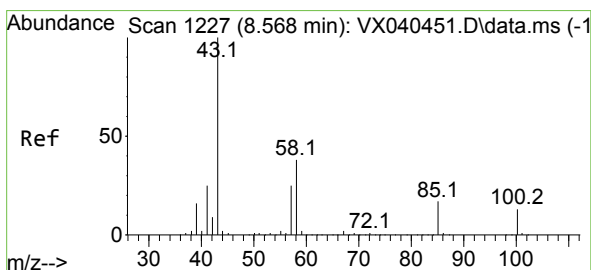
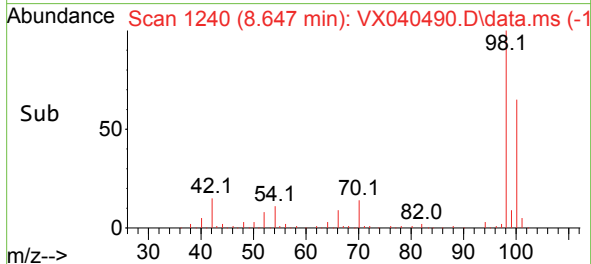
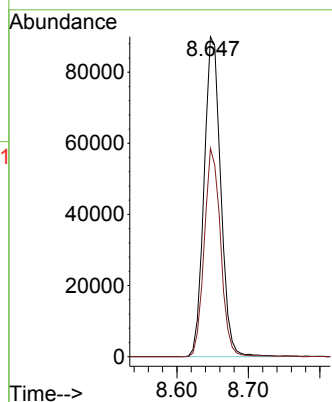
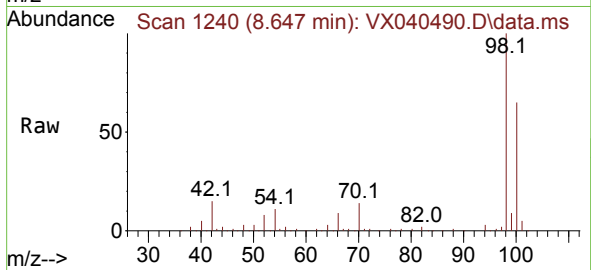




#50  
Toluene-d8  
Concen: 49.084 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX040490.D  
Acq: 27 Feb 2024 15:26

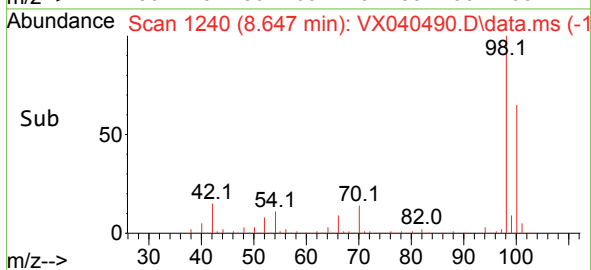
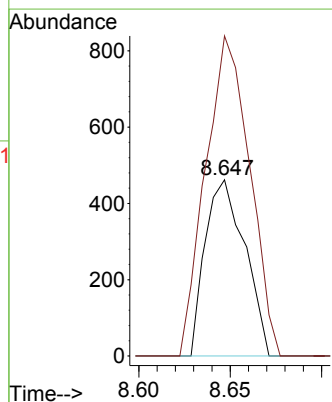
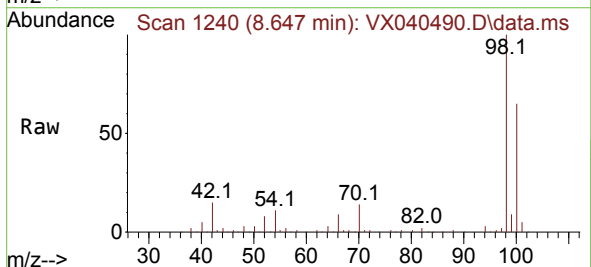
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE122D1-20240221

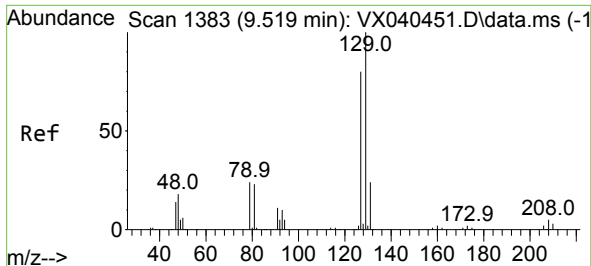
Tgt Ion: 98 Resp: 145679  
Ion Ratio Lower Upper  
98 100  
100 63.8 53.1 79.7



#51  
4-Methyl-2-Pentanone  
Concen: 0.488 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.079 min  
Lab File: VX040490.D  
Acq: 27 Feb 2024 15:26

Tgt Ion: 43 Resp: 698  
Ion Ratio Lower Upper  
43 100  
58 202.1 30.4 45.6#

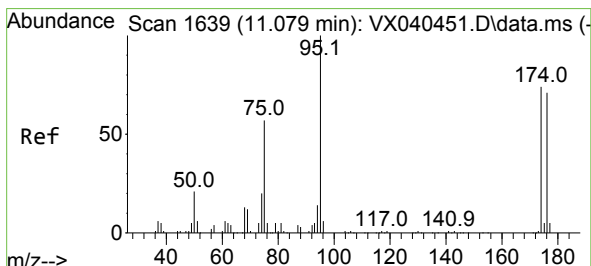
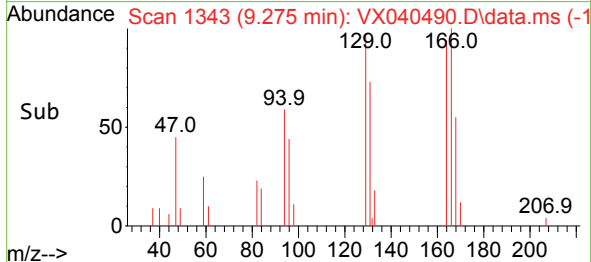
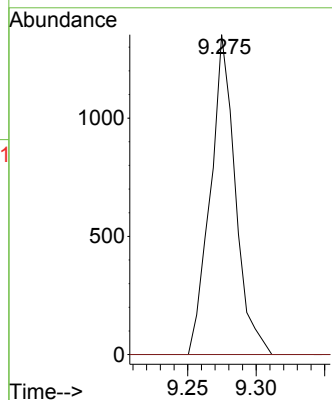
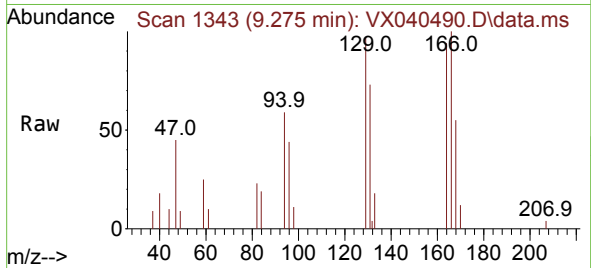




#60  
Dibromochloromethane  
Concen: 1.820 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. -0.244 min  
Lab File: VX040490.D  
Acq: 27 Feb 2024 15:26

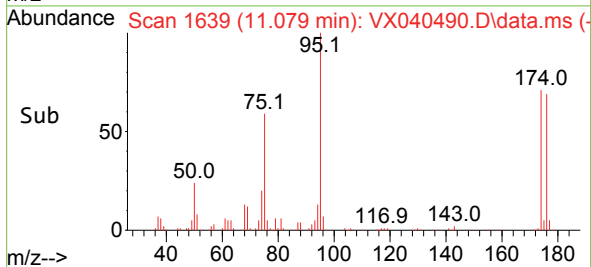
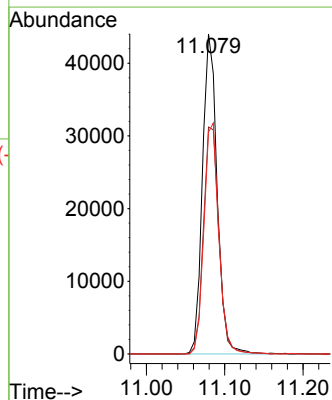
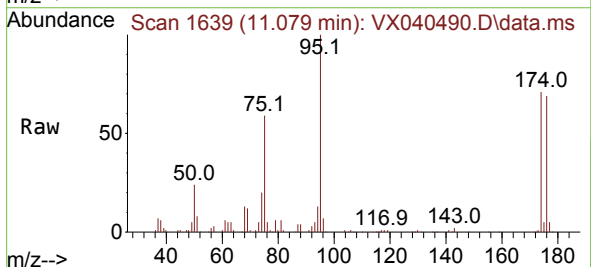
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE122D1-20240221

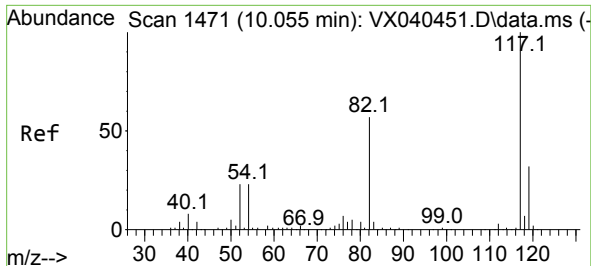
Tgt Ion:129 Resp: 1717  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.8 116.4#



#62  
4-Bromofluorobenzene  
Concen: 50.569 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX040490.D  
Acq: 27 Feb 2024 15:26

Tgt Ion: 95 Resp: 57211  
Ion Ratio Lower Upper  
95 100  
174 74.8 0.0 135.6  
176 73.1 0.0 131.0

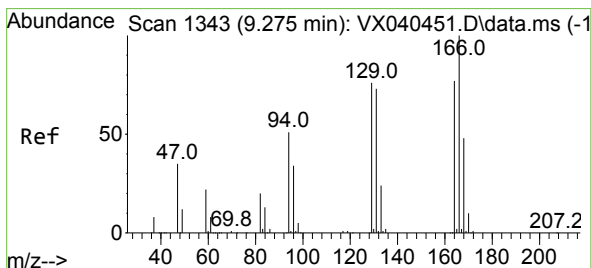
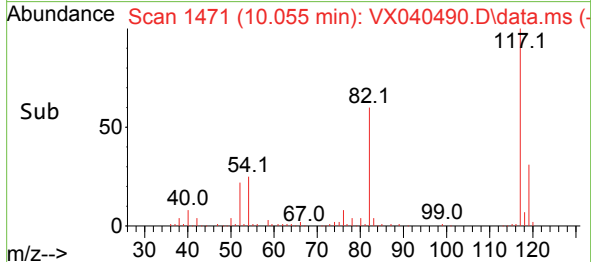
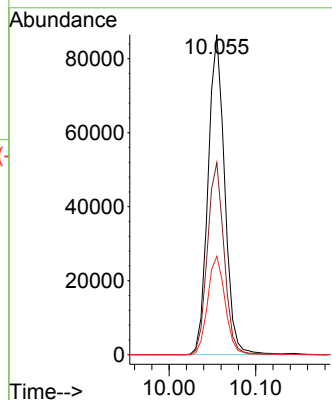
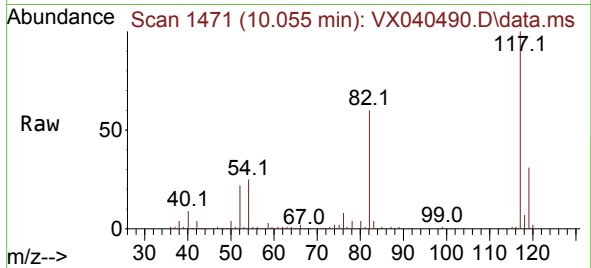




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX040490.D  
Acq: 27 Feb 2024 15:26

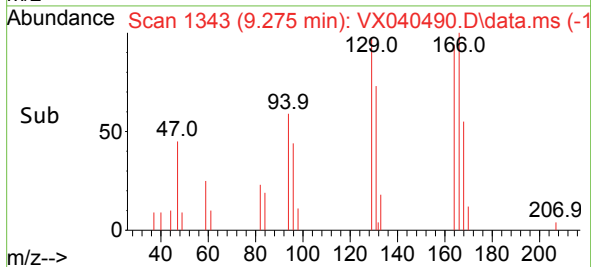
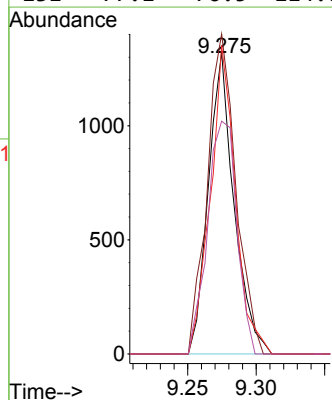
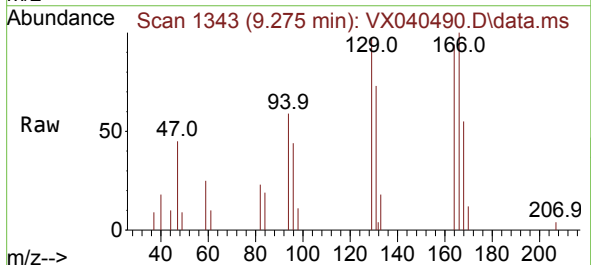
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE122D1-20240221

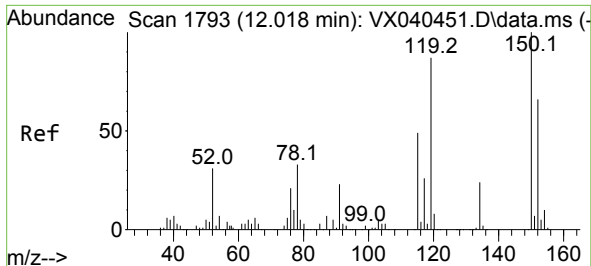
Tgt Ion:117 Resp: 115245  
Ion Ratio Lower Upper  
117 100  
82 60.0 46.2 69.4  
119 30.8 25.5 38.3



#64  
Tetrachloroethene  
Concen: 2.132 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.000 min  
Lab File: VX040490.D  
Acq: 27 Feb 2024 15:26

Tgt Ion:164 Resp: 1725  
Ion Ratio Lower Upper  
164 100  
166 106.0 102.7 154.1  
129 102.3 80.4 120.6  
131 77.1 76.5 114.7

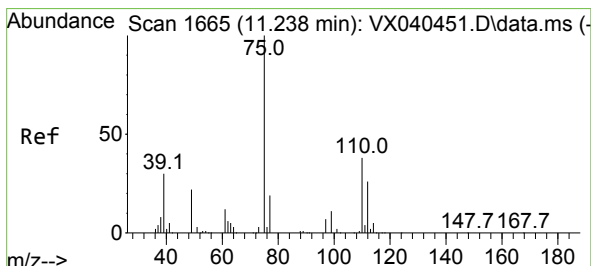
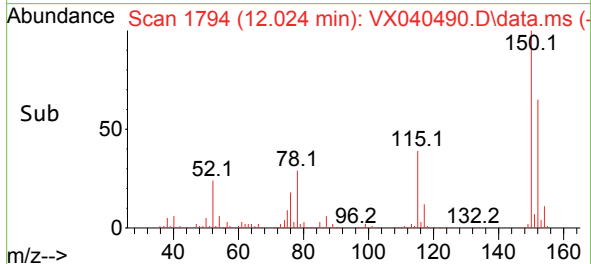
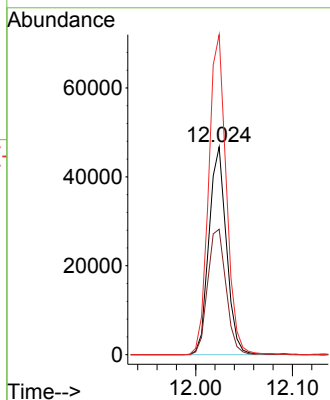
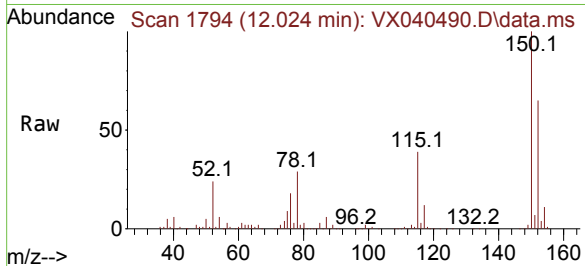




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1  
Delta R.T. 0.006 min  
Lab File: VX040490.D  
Acq: 27 Feb 2024 15:26

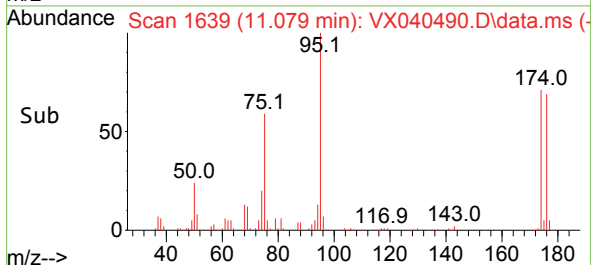
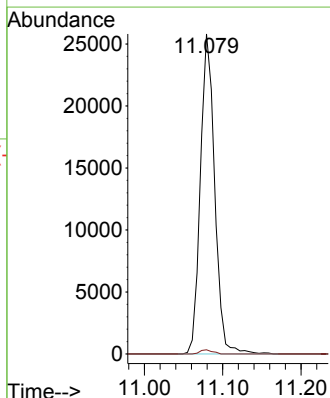
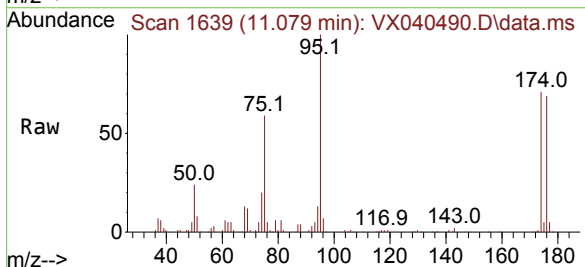
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE122D1-20240221

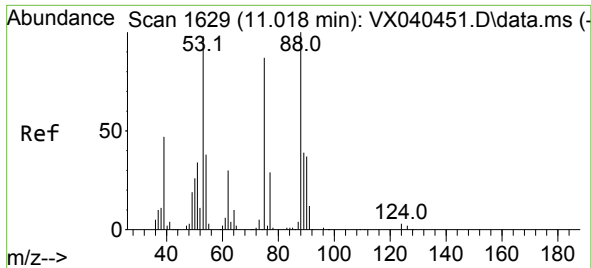
Tgt Ion:152 Resp: 58858  
Ion Ratio Lower Upper  
152 100  
115 63.8 43.3 129.9  
150 155.7 0.0 345.0



#76  
1,2,3-Trichloropropane  
Concen: 25.315 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX040490.D  
Acq: 27 Feb 2024 15:26

Tgt Ion: 75 Resp: 32792  
Ion Ratio Lower Upper  
75 100  
77 1.1 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 73.849 ug/l  
 RT: 11.079 min Scan# 11  
 Delta R.T. 0.061 min  
 Lab File: VX040490.D  
 Acq: 27 Feb 2024 15:26

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE122D1-20240221

Tgt Ion: 75 Resp: 32792  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.0 36.9 55.3#

