

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121921\  
 Data File : VX025903.D  
 Acq On : 18 Dec 2021 11:38  
 Operator : JC/MD  
 Sample : VX1219MBL01  
 Misc : 5.0g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

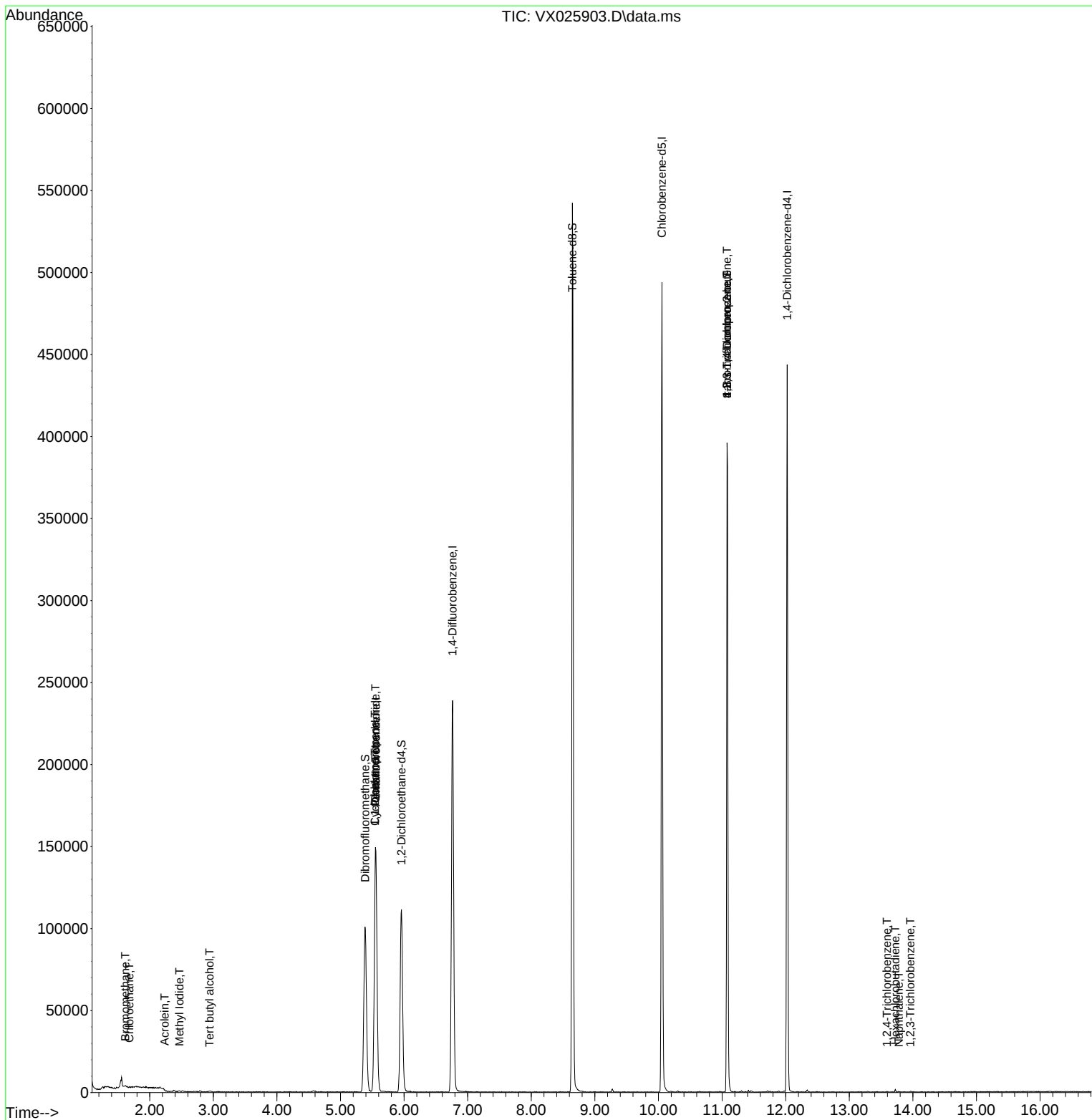
Instrument :  
 MSVOA\_X  
 ClientSampleId :

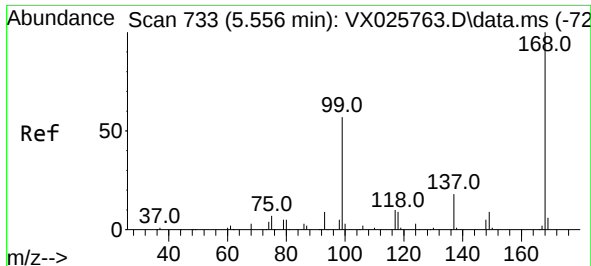
Quant Time: Dec 19 05:53:41 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 14 07:02:11 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 139351   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 245319   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 219640   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 89067    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 106210   | 52.972    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | = 105.940% |          |
| 35) Dibromofluoromethane      | 5.385  | 113   | 87195    | 50.965    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 101.920% |          |
| 50) Toluene-d8                | 8.647  | 98    | 318519   | 51.097    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | = 102.200% |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 107137   | 45.245    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 90.500%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 5) Bromomethane               | 1.618  | 94    | 619      | 0.502     | ug/l #     | 60       |
| 6) Chloroethane               | 1.679  | 64    | 260      | 0.208     | ug/l #     | 42       |
| 10) Methyl Iodide             | 2.465  | 142   | 551      | 0.291     | ug/l #     | 92       |
| 11) Tert butyl alcohol        | 2.941  | 59    | 414      | 1.029     | ug/l #     | 73       |
| 13) Acrolein                  | 2.233  | 56    | 73       | 0.266     | ug/l #     | 1        |
| 16) Acetone                   | 2.380  | 43    | 779      | Below Cal |            | 93       |
| 20) Methylene Chloride        | 2.800  | 84    | 259      | Below Cal | #          | 69       |
| 31) Cyclohexane               | 5.544  | 56    | 3295     | 1.351     | ug/l #     | 3        |
| 36) 1,1-Dichloropropene       | 5.544  | 75    | 11877    | 5.119     | ug/l #     | 49       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 15431    | 5.716     | ug/l #     | 14       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 54947    | 26.926    | ug/l #     | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 54947    | 83.477    | ug/l #     | 10       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180   | 192      | 3.471     | ug/l #     | 73       |
| 94) Hexachlorobutadiene       | 13.725 | 225   | 267      | 0.425     | ug/l       | 84       |
| 95) Naphthalene               | 13.780 | 128   | 450      | 2.482     | ug/l #     | 69       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180   | 161      | 3.079     | ug/l #     | 82       |
| -----                         |        |       |          |           |            |          |

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

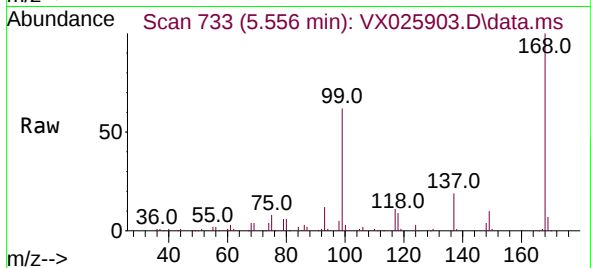
Quant Time: Dec 19 05:53:41 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 14 07:02:11 2021  
Response via : Initial Calibration



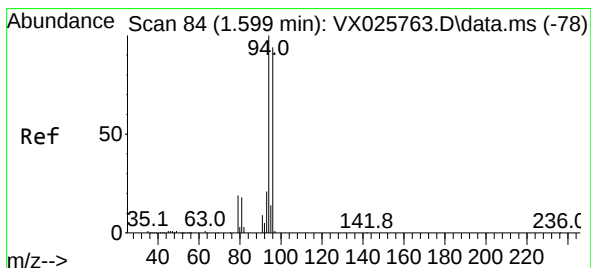
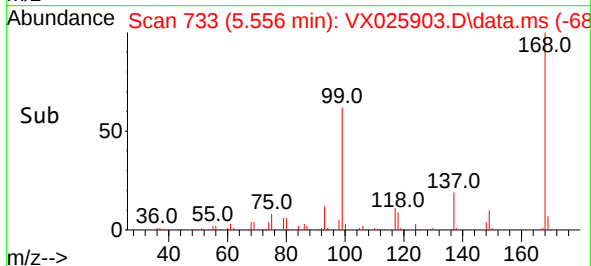
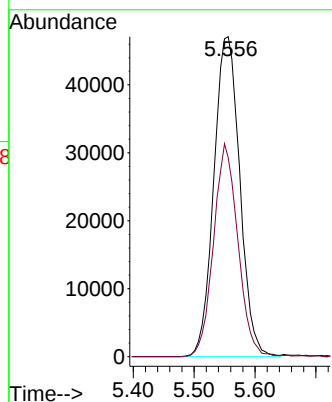


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX025903.D  
Acq: 18 Dec 2021 11:38

Instrument :  
MSVOA\_X  
ClientSampleId :

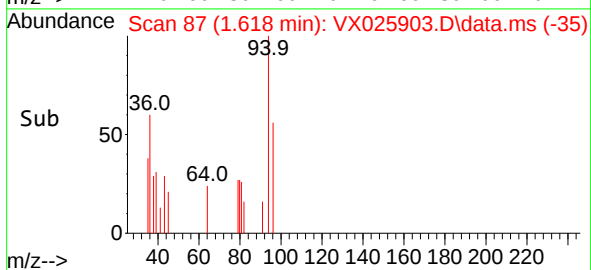
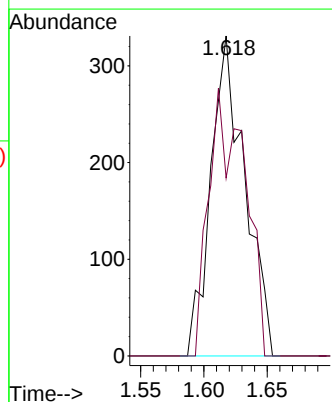
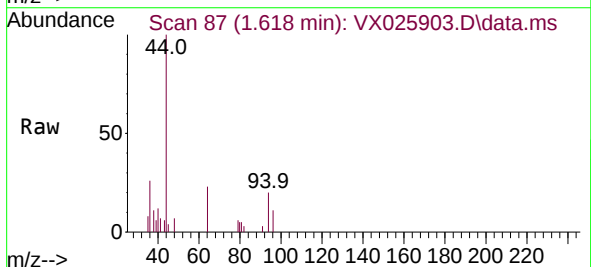


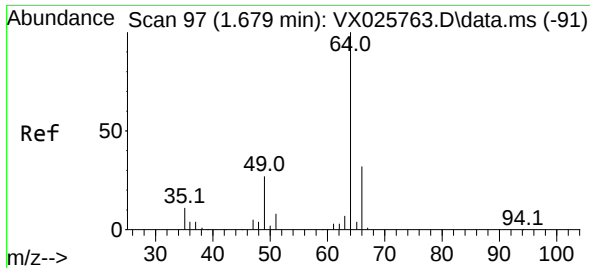
Tgt Ion:168 Resp: 139351  
Ion Ratio Lower Upper  
168 100  
99 62.2 45.8 68.8



#5  
Bromomethane  
Concen: 0.502 ug/l  
RT: 1.618 min Scan# 87  
Delta R.T. 0.018 min  
Lab File: VX025903.D  
Acq: 18 Dec 2021 11:38

Tgt Ion: 94 Resp: 619  
Ion Ratio Lower Upper  
94 100  
96 55.6 75.0 112.4#

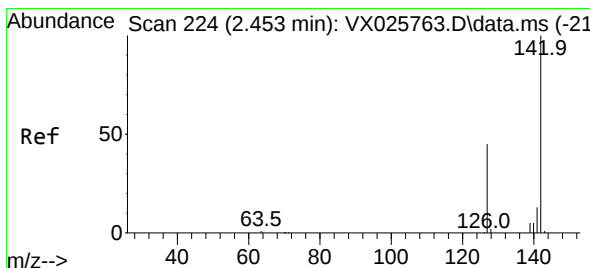
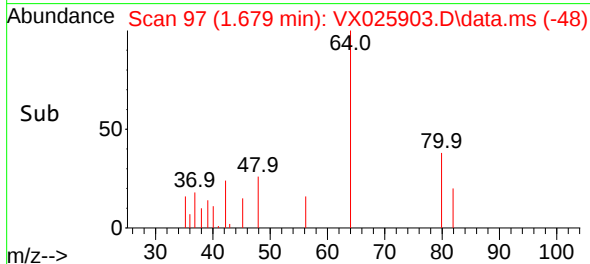
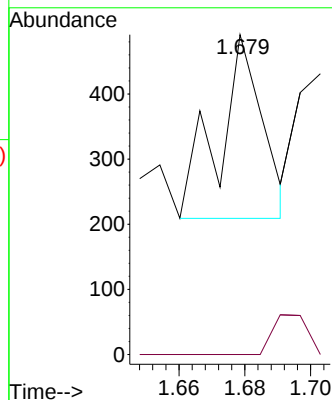
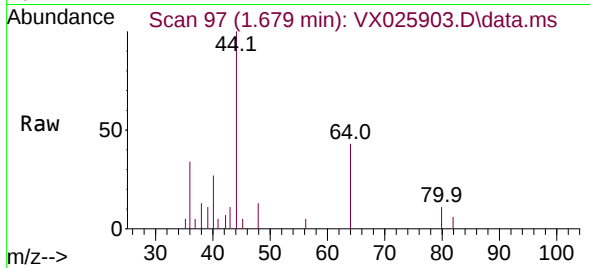




#6  
Chloroethane  
Concen: 0.208 ug/l  
RT: 1.679 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX025903.D  
Acq: 18 Dec 2021 11:38

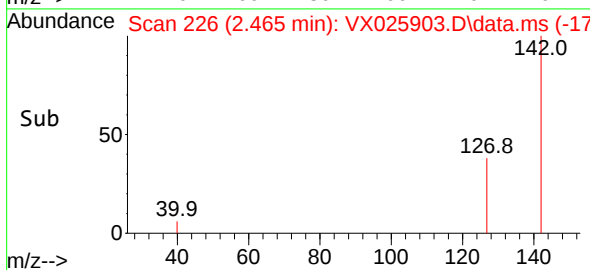
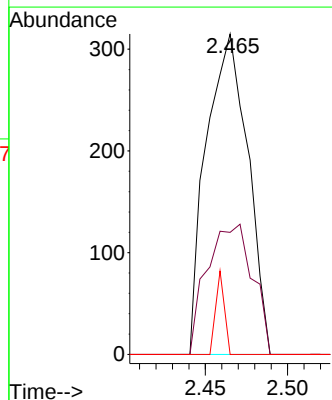
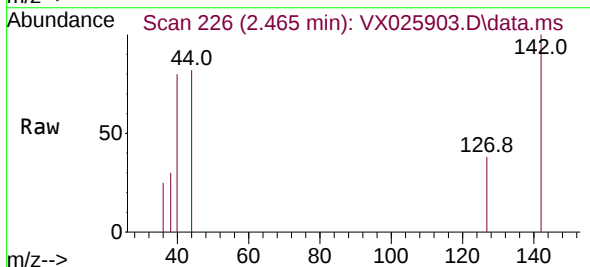
Instrument :  
MSVOA\_X  
ClientSampleId :

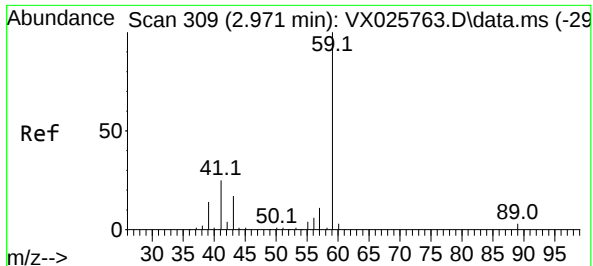
Tgt Ion: 64 Resp: 260  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.9 38.9#



#10  
Methyl Iodide  
Concen: 0.291 ug/l  
RT: 2.465 min Scan# 226  
Delta R.T. 0.012 min  
Lab File: VX025903.D  
Acq: 18 Dec 2021 11:38

Tgt Ion: 142 Resp: 551  
Ion Ratio Lower Upper  
142 100  
127 44.6 37.5 56.3  
141 5.4 11.4 17.0#





#11

Tert butyl alcohol

Concen: 1.029 ug/l

RT: 2.941 min Scan# 309

Delta R.T. -0.031 min

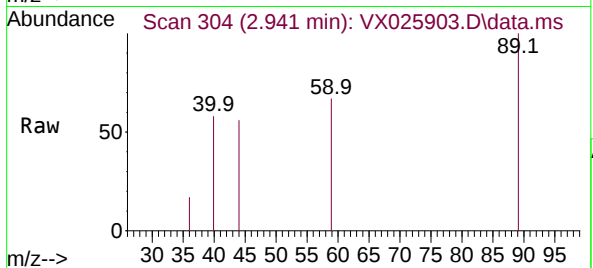
Lab File: VX025903.D

Acq: 18 Dec 2021 11:38

Instrument :

MSVOA\_X

ClientSampleId :

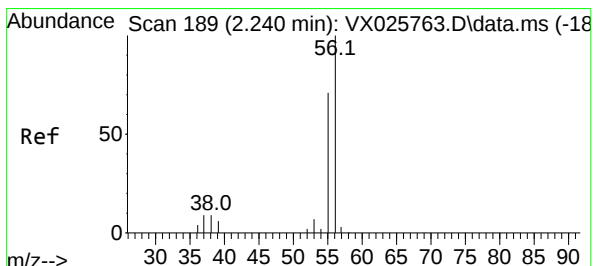
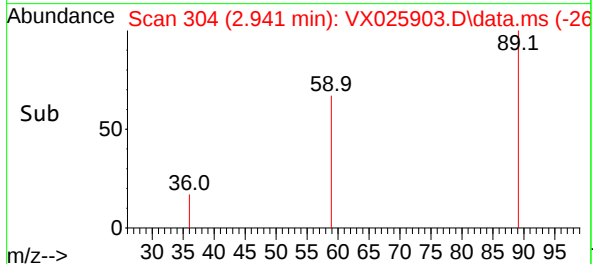
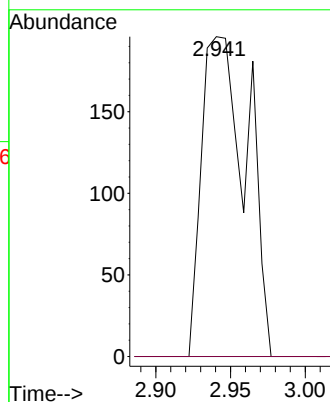


Tgt Ion: 59 Resp: 414

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



#13

Acrolein

Concen: 0.266 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.006 min

Lab File: VX025903.D

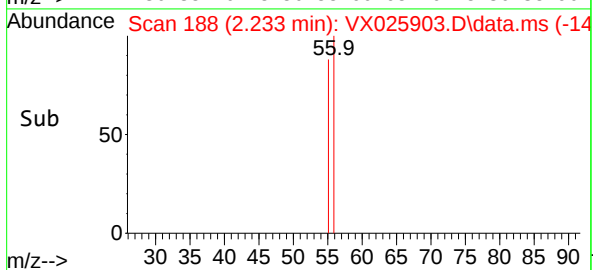
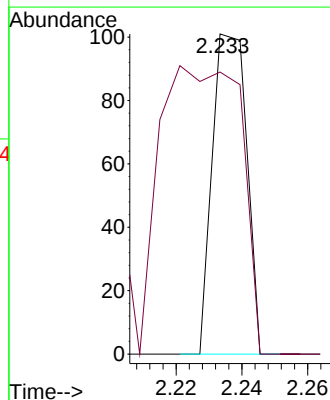
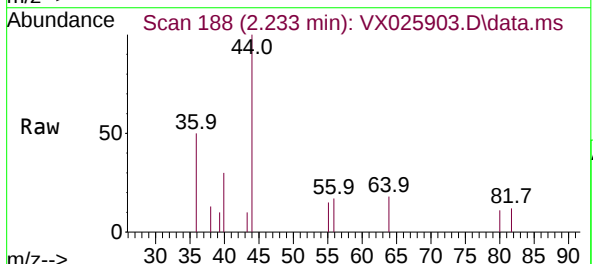
Acq: 18 Dec 2021 11:38

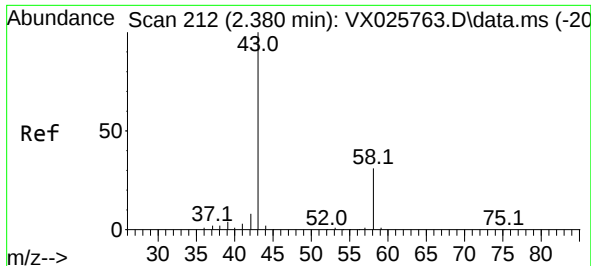
Tgt Ion: 56 Resp: 73

Ion Ratio Lower Upper

56 100

55 238.4 57.4 86.2#

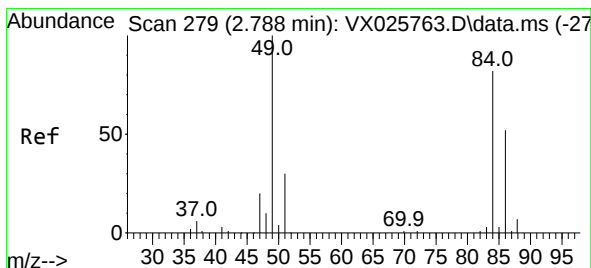
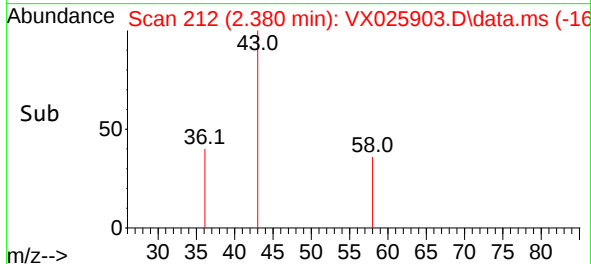
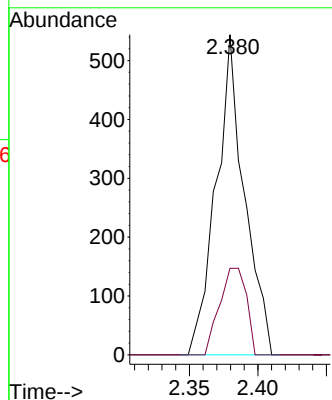
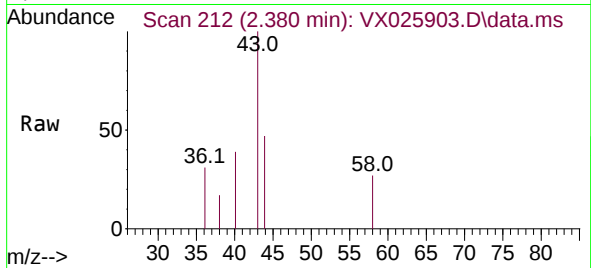




#16  
Acetone  
Concen: Below Cal  
RT: 2.380 min Scan# 212  
Delta R.T. -0.000 min  
Lab File: VX025903.D  
Acq: 18 Dec 2021 11:38

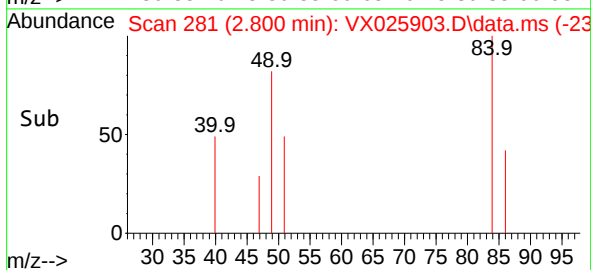
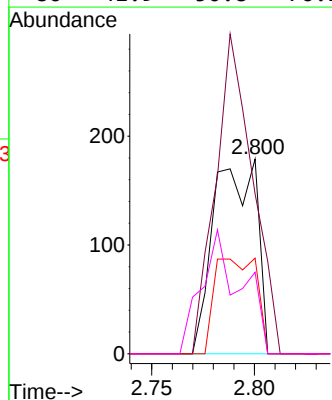
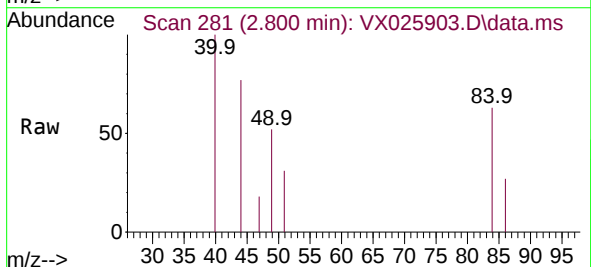
Instrument :  
MSVOA\_X  
ClientSampleId :

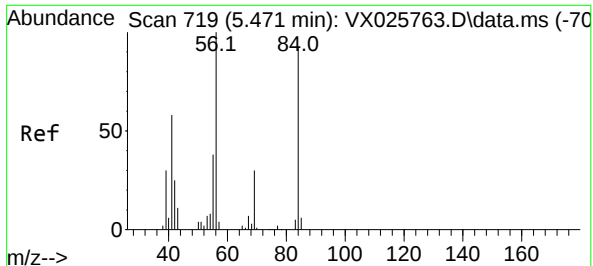
Tgt Ion: 43 Resp: 779  
Ion Ratio Lower Upper  
43 100  
58 27.0 24.8 37.2



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.800 min Scan# 281  
Delta R.T. 0.012 min  
Lab File: VX025903.D  
Acq: 18 Dec 2021 11:38

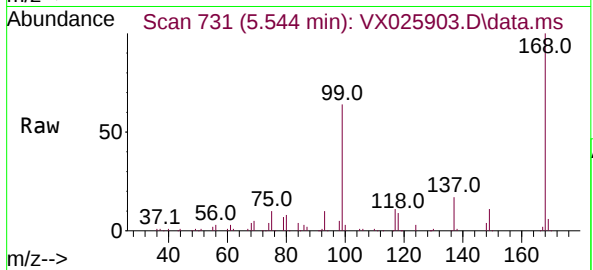
Tgt Ion: 84 Resp: 259  
Ion Ratio Lower Upper  
84 100  
49 82.1 97.1 145.7#  
51 49.2 29.3 43.9#  
86 41.9 50.8 76.2#



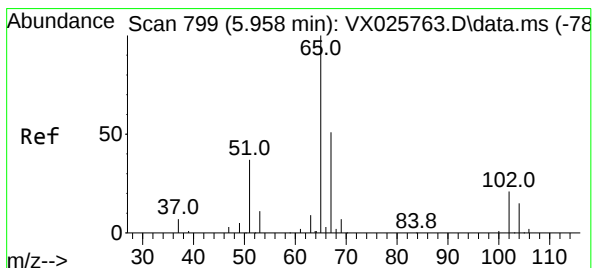
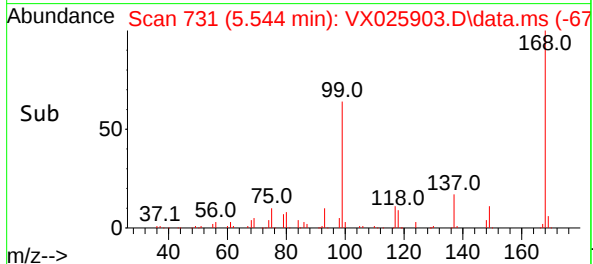
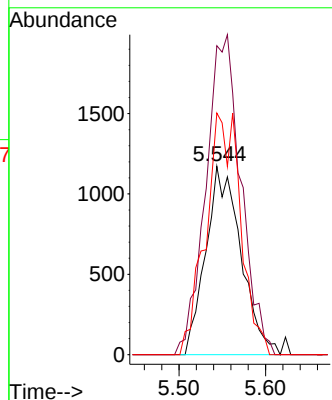


#31  
Cyclohexane  
Concen: 1.351 ug/l  
RT: 5.544 min Scan# 719  
Delta R.T. 0.073 min  
Lab File: VX025903.D  
Acq: 18 Dec 2021 11:38

Instrument :  
MSVOA\_X  
ClientSampleId :

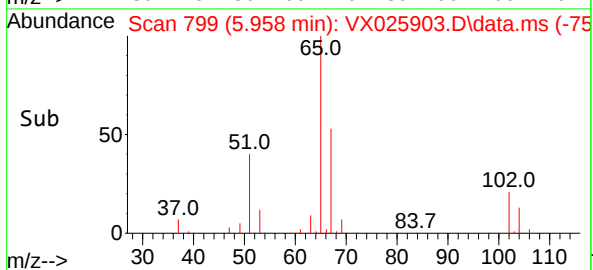
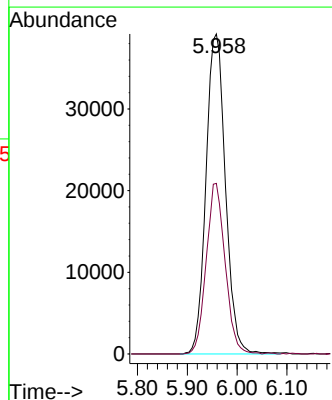
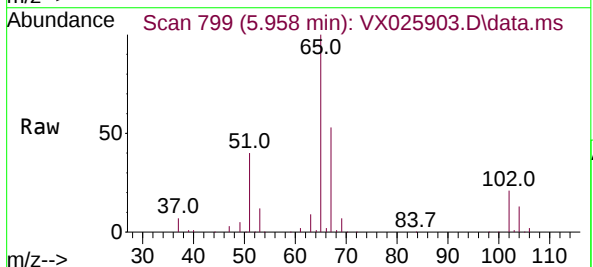


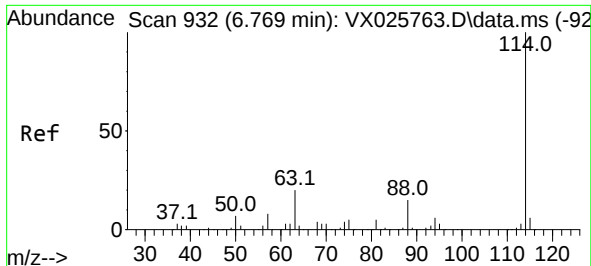
Tgt Ion: 56 Resp: 3295  
Ion Ratio Lower Upper  
56 100  
69 164.0 23.9 35.9#  
84 136.8 73.2 109.8#



#33  
1,2-Dichloroethane-d4  
Concen: 52.972 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. -0.000 min  
Lab File: VX025903.D  
Acq: 18 Dec 2021 11:38

Tgt Ion: 65 Resp: 106210  
Ion Ratio Lower Upper  
65 100  
67 51.7 0.0 103.4

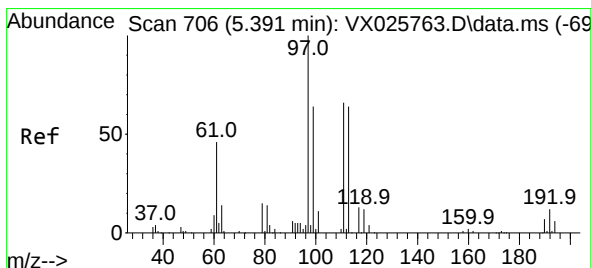
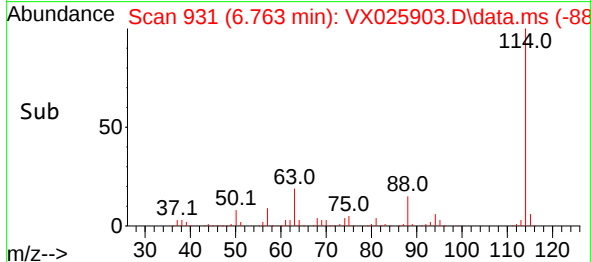
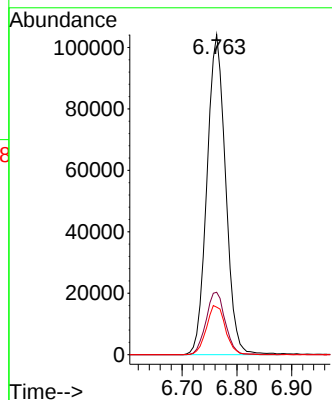
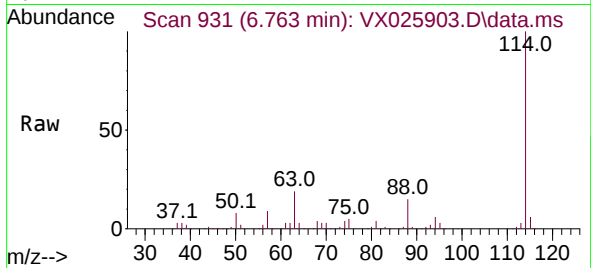




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VX025903.D  
Acq: 18 Dec 2021 11:38

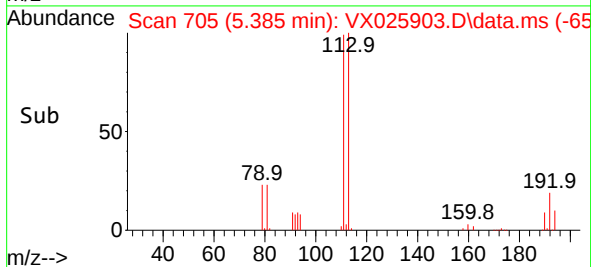
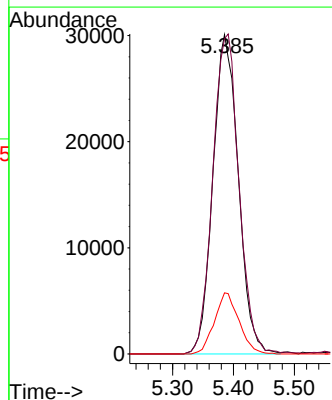
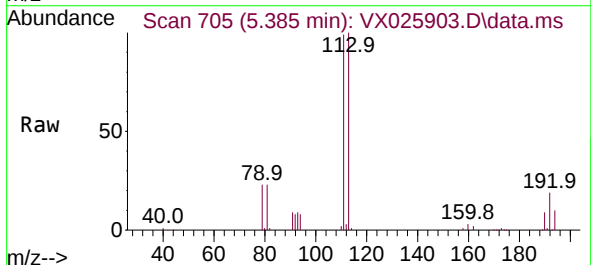
Instrument :  
MSVOA\_X  
ClientSampleId :

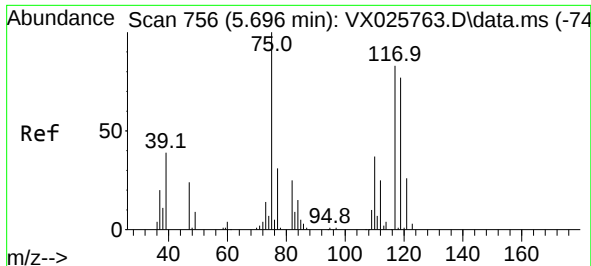
Tgt Ion:114 Resp: 245319  
Ion Ratio Lower Upper  
114 100  
63 19.5 0.0 40.0  
88 14.9 0.0 30.6



#35  
Dibromofluoromethane  
Concen: 50.965 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.006 min  
Lab File: VX025903.D  
Acq: 18 Dec 2021 11:38

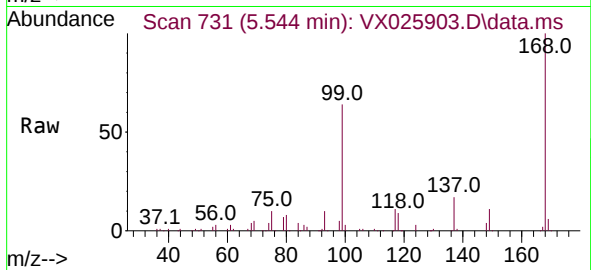
Tgt Ion:113 Resp: 87195  
Ion Ratio Lower Upper  
113 100  
111 103.2 81.8 122.8  
192 18.5 15.0 22.4



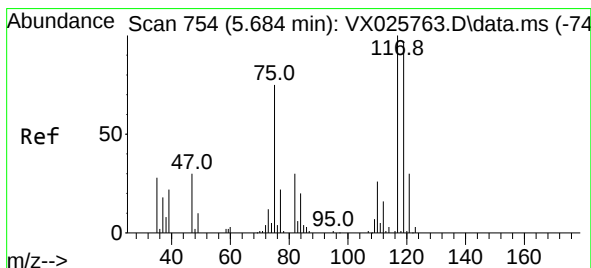
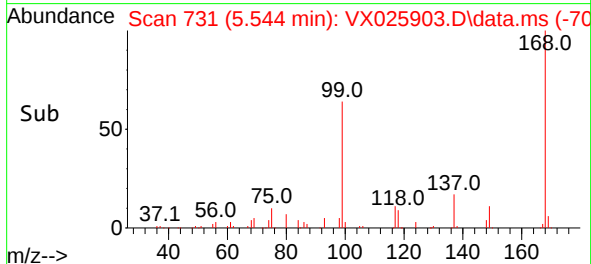
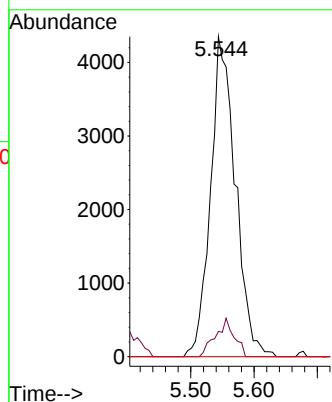


#36  
1,1-Dichloropropene  
Concen: 5.119 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.152 min  
Lab File: VX025903.D  
Acq: 18 Dec 2021 11:38

Instrument :  
MSVOA\_X  
ClientSampleId :

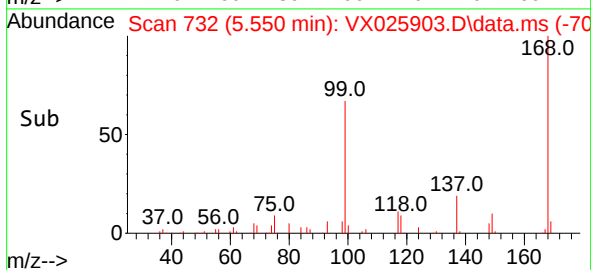
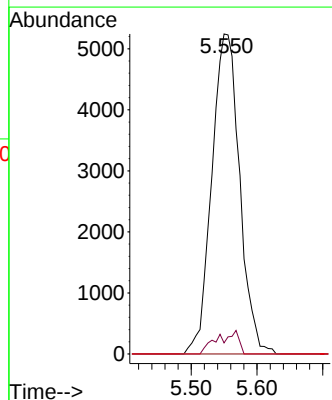
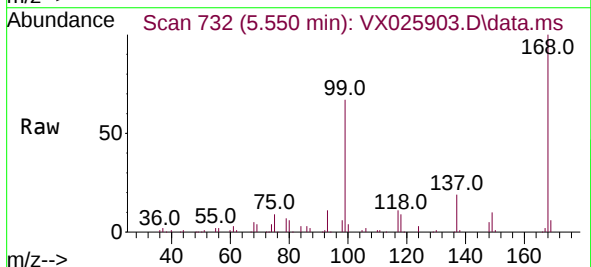


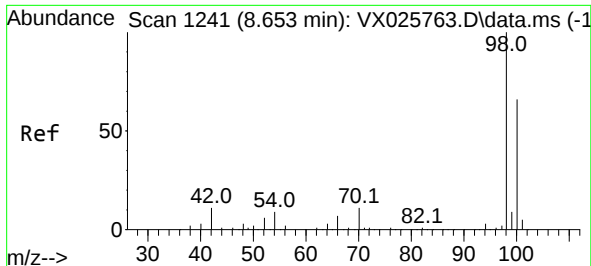
Tgt Ion: 75 Resp: 11877  
Ion Ratio Lower Upper  
75 100  
110 9.0 18.2 54.6#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 5.716 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.134 min  
Lab File: VX025903.D  
Acq: 18 Dec 2021 11:38

Tgt Ion: 117 Resp: 15431  
Ion Ratio Lower Upper  
117 100  
119 3.4 77.2 115.8#  
121 0.0 23.8 35.8#

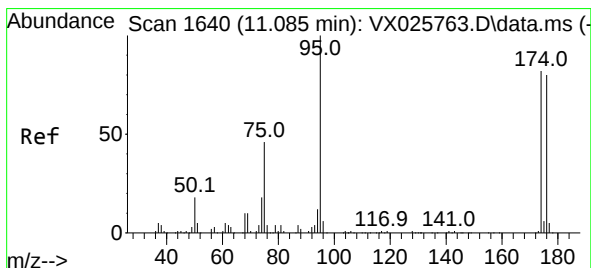
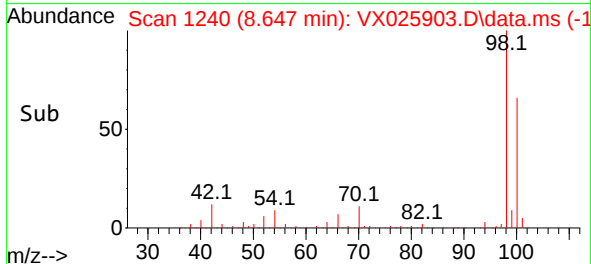
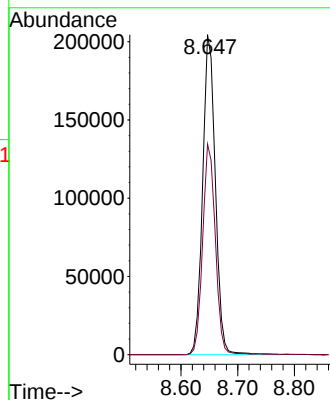
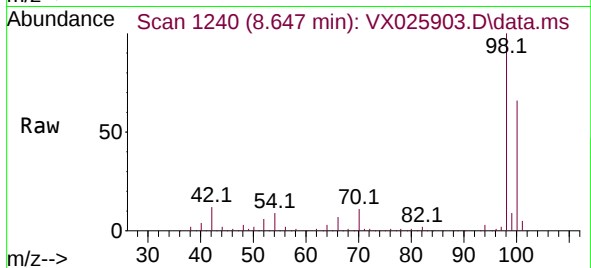




#50  
Toluene-d8  
Concen: 51.097 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VX025903.D  
Acq: 18 Dec 2021 11:38

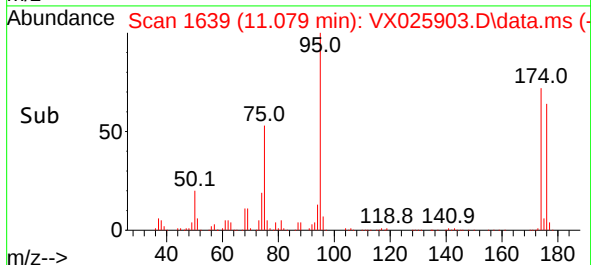
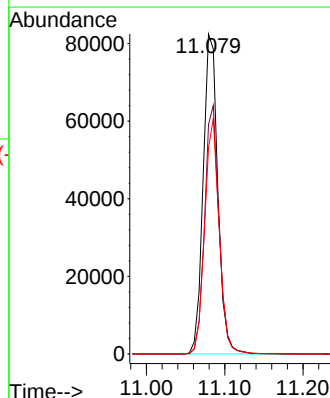
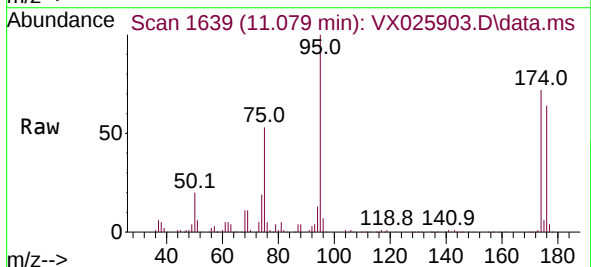
Instrument :  
MSVOA\_X  
ClientSampleId :

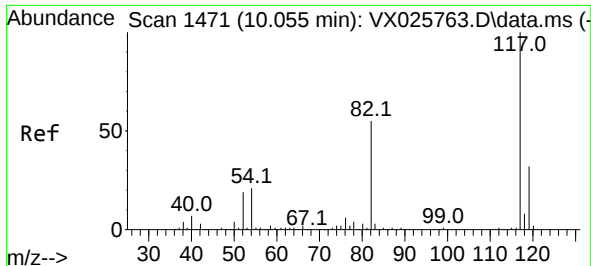
Tgt Ion: 98 Resp: 318519  
Ion Ratio Lower Upper  
98 100  
100 65.5 52.6 78.8



#62  
4-Bromofluorobenzene  
Concen: 45.245 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.006 min  
Lab File: VX025903.D  
Acq: 18 Dec 2021 11:38

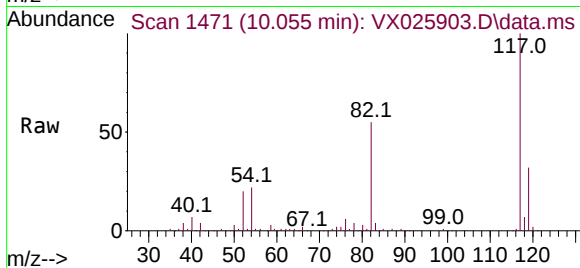
Tgt Ion: 95 Resp: 107137  
Ion Ratio Lower Upper  
95 100  
174 76.3 0.0 157.4  
176 72.8 0.0 154.6



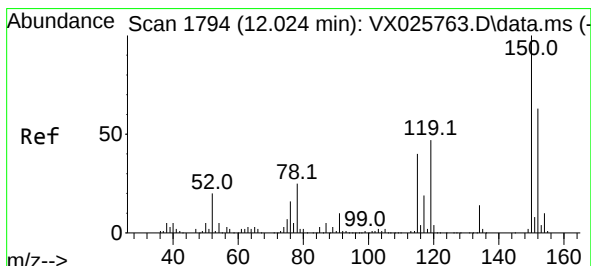
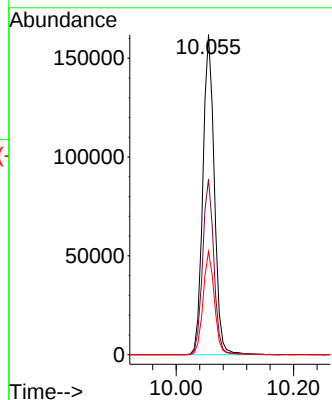
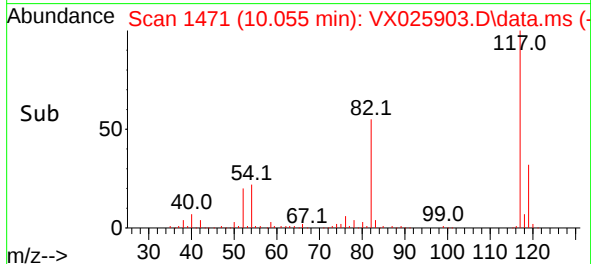


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX025903.D  
Acq: 18 Dec 2021 11:38

Instrument :  
MSVOA\_X  
ClientSampleId :

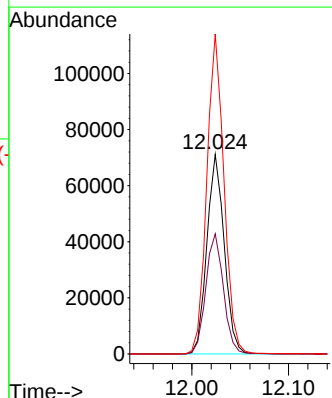
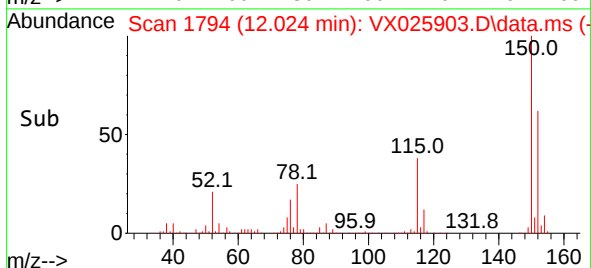
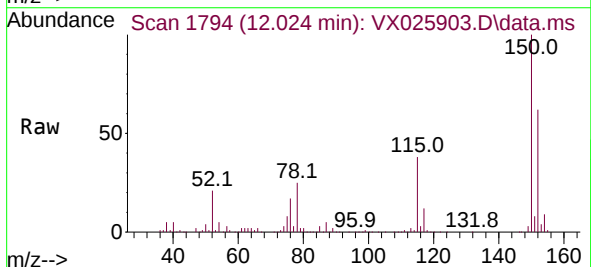


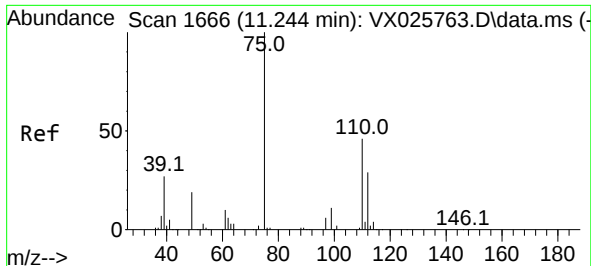
Tgt Ion:117 Resp: 219640  
Ion Ratio Lower Upper  
117 100  
82 54.9 43.8 65.6  
119 32.2 25.2 37.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VX025903.D  
Acq: 18 Dec 2021 11:38

Tgt Ion:152 Resp: 89067  
Ion Ratio Lower Upper  
152 100  
115 61.1 41.3 123.9  
150 158.2 0.0 351.8

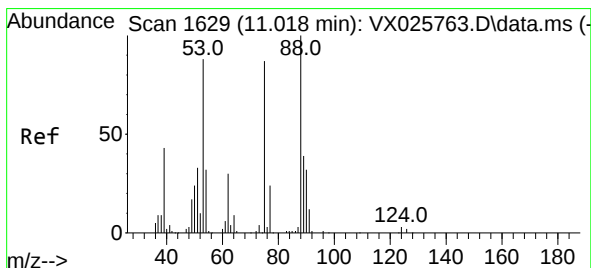
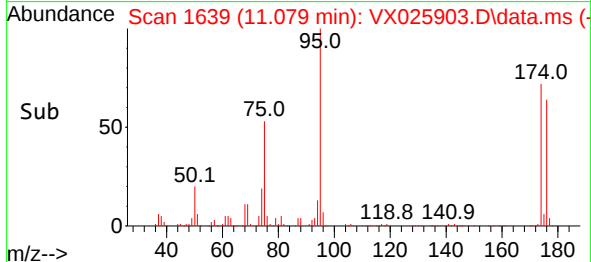
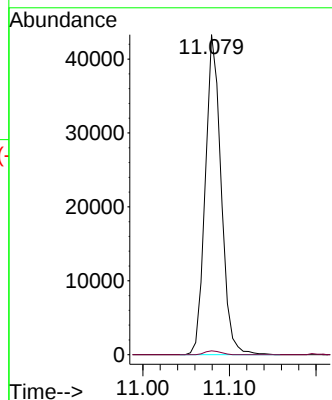
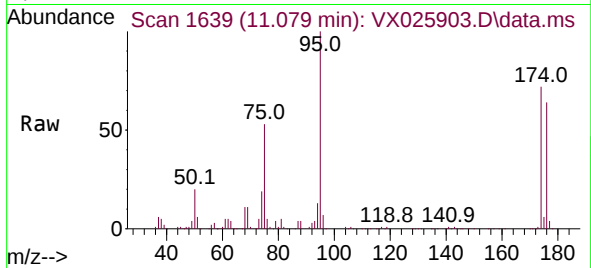




#76  
1,2,3-Trichloropropane  
Concen: 26.926 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.165 min  
Lab File: VX025903.D  
Acq: 18 Dec 2021 11:38

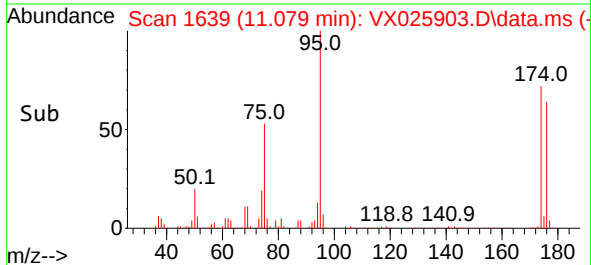
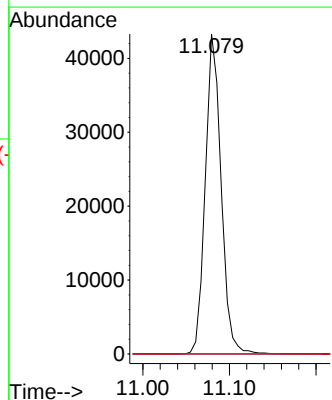
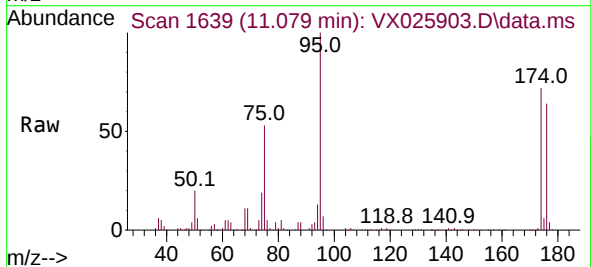
Instrument :  
MSVOA\_X  
ClientSampleId :

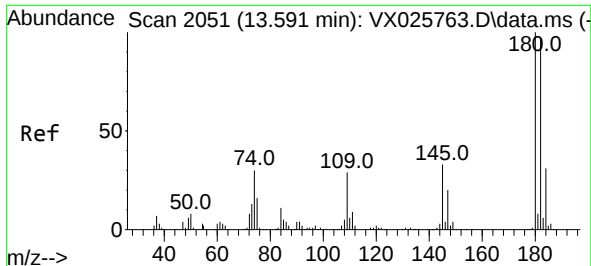
Tgt Ion: 75 Resp: 54947  
Ion Ratio Lower Upper  
75 100  
77 1.2 19.0 57.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 83.477 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX025903.D  
Acq: 18 Dec 2021 11:38

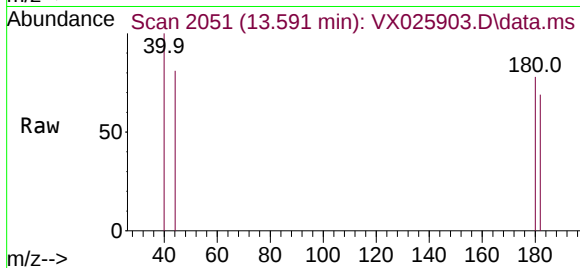
Tgt Ion: 75 Resp: 54947  
Ion Ratio Lower Upper  
75 100  
53 0.0 79.5 119.3#  
89 0.0 38.3 57.5#



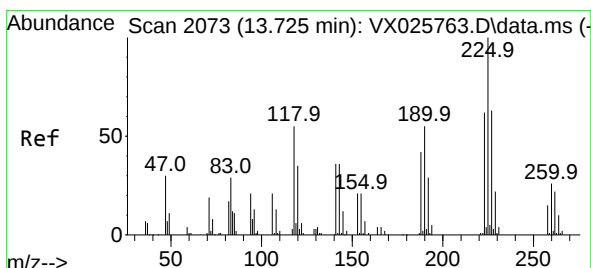
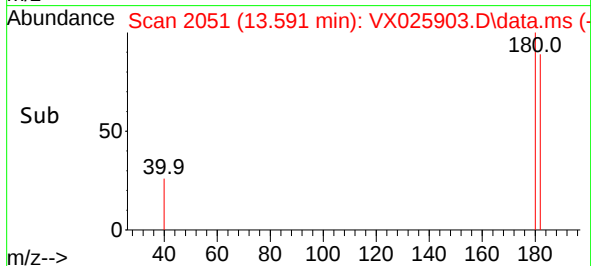
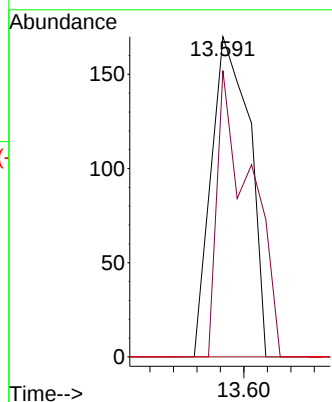


#93  
1,2,4-Trichlorobenzene  
Concen: 3.471 ug/l  
RT: 13.591 min Scan# 2051  
Delta R.T. 0.000 min  
Lab File: VX025903.D  
Acq: 18 Dec 2021 11:38

Instrument :  
MSVOA\_X  
ClientSampleId :

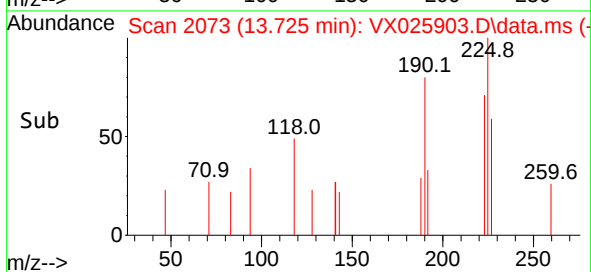
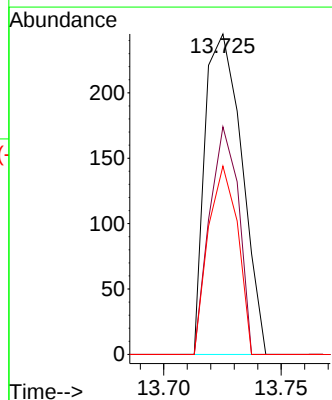
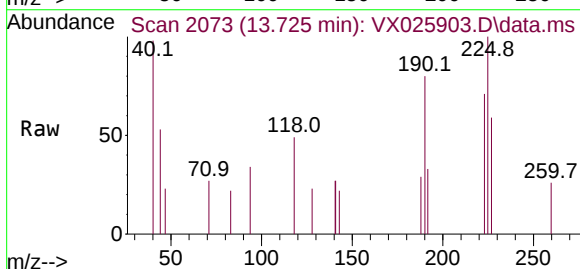


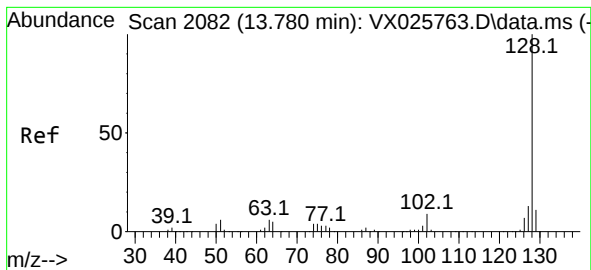
Tgt Ion:180 Resp: 192  
Ion Ratio Lower Upper  
180 100  
182 78.1 47.2 141.6  
145 0.0 16.3 48.9#



#94  
Hexachlorobutadiene  
Concen: 0.425 ug/l  
RT: 13.725 min Scan# 2073  
Delta R.T. 0.000 min  
Lab File: VX025903.D  
Acq: 18 Dec 2021 11:38

Tgt Ion:225 Resp: 267  
Ion Ratio Lower Upper  
225 100  
223 56.2 31.6 95.0  
227 47.2 32.5 97.5





#95

Naphthalene

Concen: 2.482 ug/l

RT: 13.780 min Scan# 2082

Delta R.T. 0.000 min

Lab File: VX025903.D

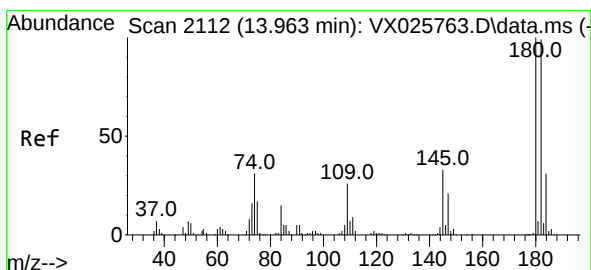
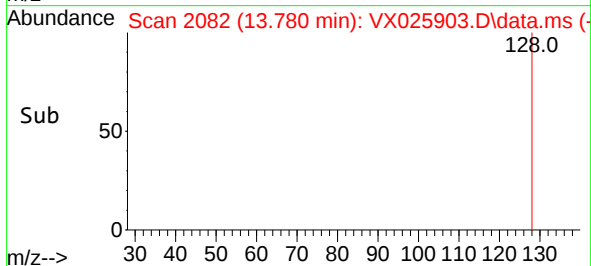
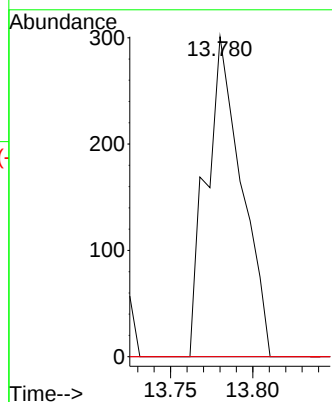
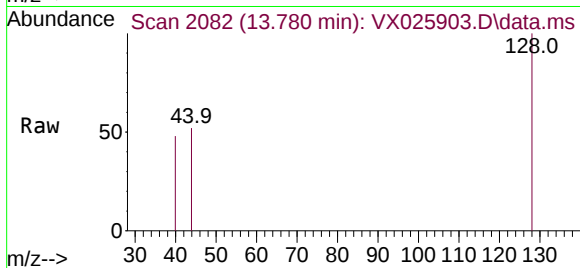
Acq: 18 Dec 2021 11:38

Instrument :

MSVOA\_X

ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:128 | Resp: | 450         |
| Ion         | Ratio | Lower Upper |
| 128         | 100   |             |
| 127         | 0.0   | 10.3 15.5#  |
| 129         | 0.0   | 8.8 13.2#   |



#96

1,2,3-Trichlorobenzene

Concen: 3.079 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. -0.000 min

Lab File: VX025903.D

Acq: 18 Dec 2021 11:38

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 161         |
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 108.1 | 47.5 142.6  |
| 145         | 16.1  | 16.7 50.1#  |

