

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX120621\  
 Data File : VX025543.D  
 Acq On : 06 Dec 2021 12:57  
 Operator : JC/MD  
 Sample : M4923-02DL 5X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Dec 07 05:58:09 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111721W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 17 15:36:16 2021  
 Response via : Initial Calibration

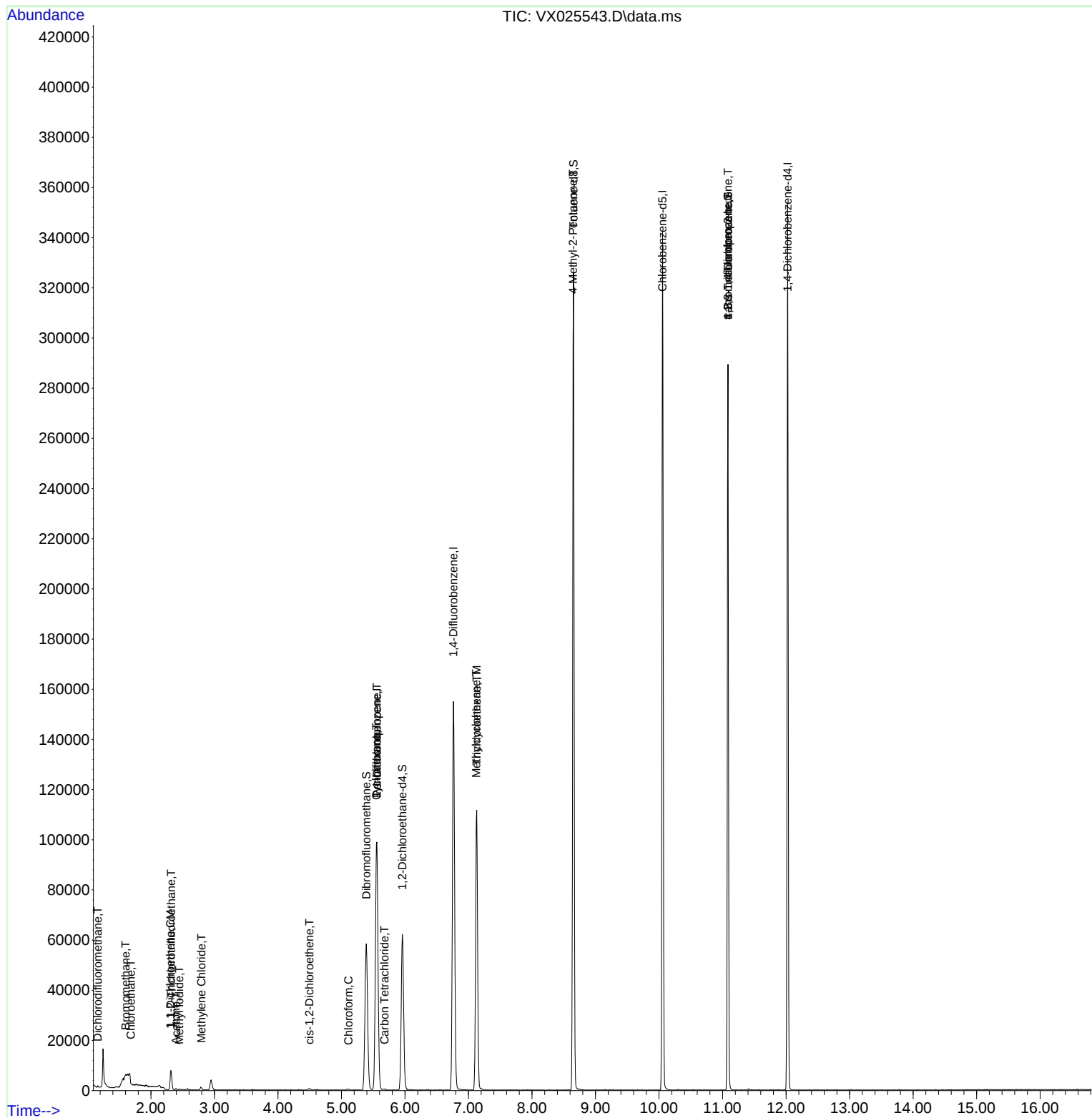
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 100353   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 166898   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 157749   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 72431    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 58271    | 55.088    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 110.180% |
| 35) Dibromofluoromethane      | 5.391  | 113   | 50951    | 49.755    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 99.520%  |
| 50) Toluene-d8                | 8.653  | 98    | 193598   | 50.282    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 100.560% |
| 62) 4-Bromofluorobenzene      | 11.085 | 95    | 73346    | 50.355    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 100.700% |
| Target Compounds              |        |       |          |           |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.160  | 85    | 218      | 0.251     | ug/l   | 100      |
| 5) Bromomethane               | 1.599  | 94    | 300      | 0.590     | ug/l   | 96       |
| 6) Chloroethane               | 1.684  | 64    | 303      | 0.371     | ug/l # | 43       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.319  | 101   | 2247     | 2.406     | ug/l   | 98       |
| 10) Methyl Iodide             | 2.447  | 142   | 417      | 0.357     | ug/l # | 78       |
| 12) 1,1-Dichloroethene        | 2.306  | 96    | 959      | 1.031     | ug/l   | 96       |
| 16) Acetone                   | 2.392  | 43    | 493      | 0.839     | ug/l # | 85       |
| 20) Methylene Chloride        | 2.794  | 84    | 583      | 0.528     | ug/l # | 68       |
| 27) cis-1,2-Dichloroethene    | 4.495  | 96    | 415      | 0.349     | ug/l   | 83       |
| 30) Chloroform                | 5.111  | 83    | 630      | 0.346     | ug/l # | 67       |
| 31) Cyclohexane               | 5.550  | 56    | 1743     | 1.066     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 7183     | 4.933     | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 5.678  | 117   | 467      | 0.291     | ug/l # | 81       |
| 39) Methylcyclohexane         | 7.123  | 83    | 494      | 0.264     | ug/l # | 1        |
| 44) Trichloroethene           | 7.129  | 130   | 45118    | 35.210    | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 915      | 0.529     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 11.085 | 75    | 35735    | 24.093    | ug/l # | 37       |
| 81) trans-1,4-Dichloro-2-b... | 11.085 | 75    | 35735    | 60.693    | ug/l # | 9        |
| 95) Naphthalene               | 13.774 | 128   | 143      | Below Cal | #      | 69       |

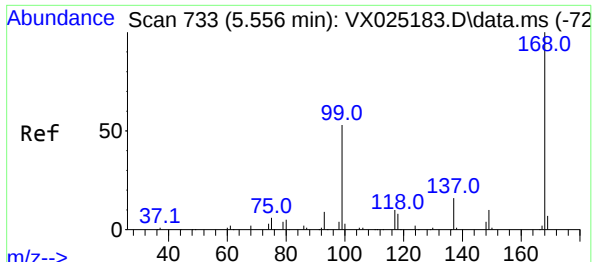
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Nov 17 15:36:16 2021  
Response via : Initial Calibration

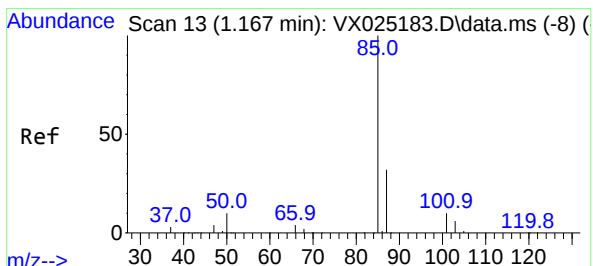
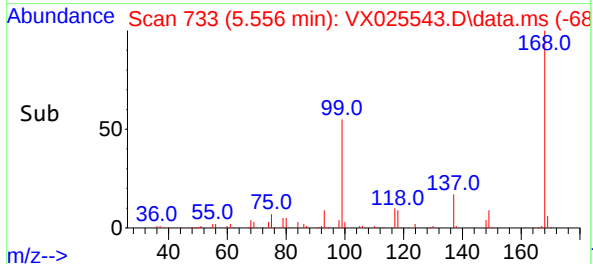
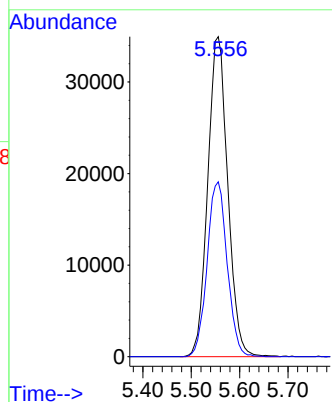
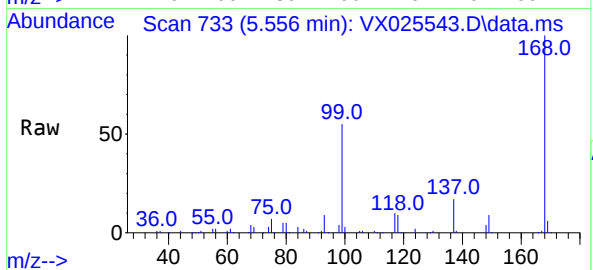




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX025543.D  
Acq: 06 Dec 2021 12:57

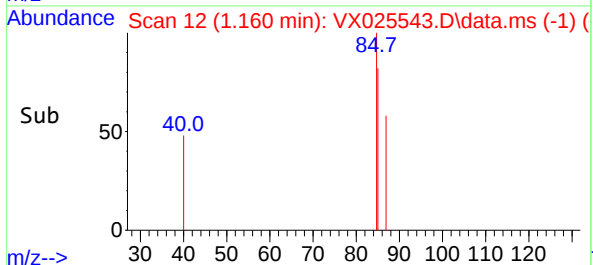
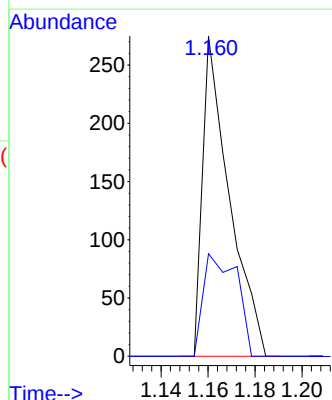
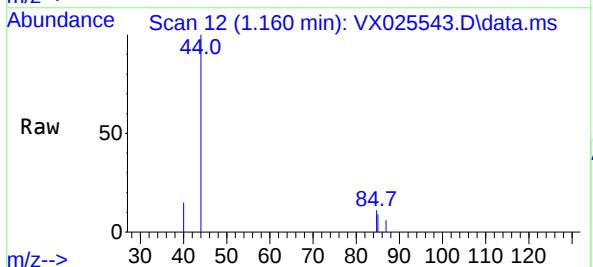
Instrument :  
MSVOA\_X  
ClientSampleId :

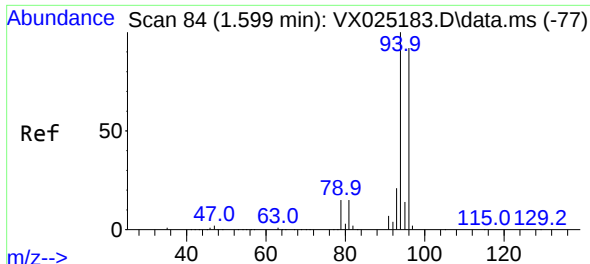
Tgt Ion:168 Resp: 100353  
Ion Ratio Lower Upper  
168 100  
99 54.7 46.4 69.6



#2  
Dichlorodifluoromethane  
Concen: 0.251 ug/l  
RT: 1.160 min Scan# 12  
Delta R.T. -0.007 min  
Lab File: VX025543.D  
Acq: 06 Dec 2021 12:57

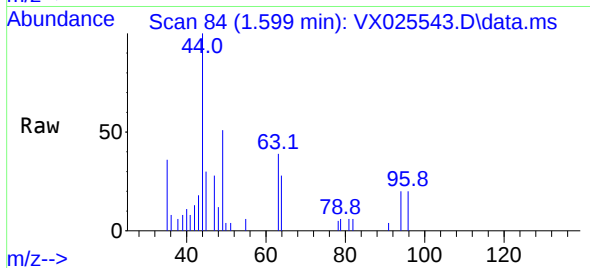
Tgt Ion: 85 Resp: 218  
Ion Ratio Lower Upper  
85 100  
87 32.0 16.0 47.9



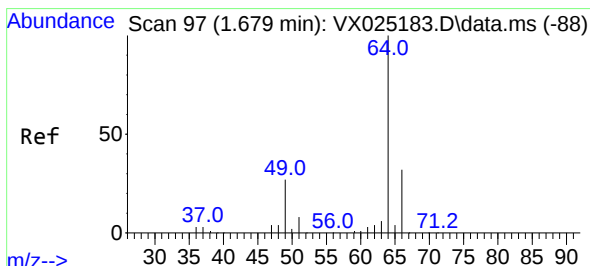
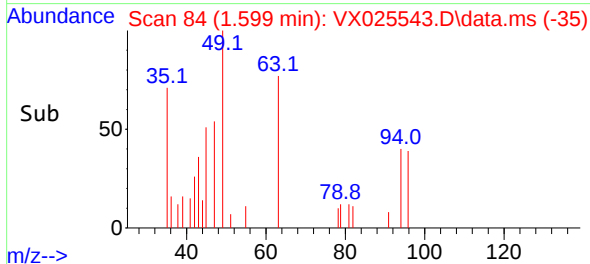
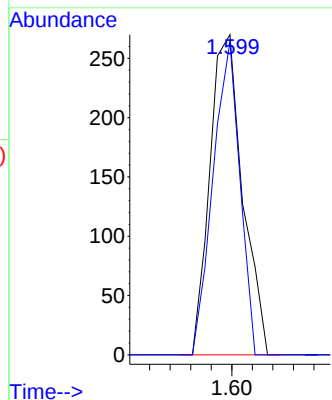


#5  
Bromomethane  
Concen: 0.590 ug/l  
RT: 1.599 min Scan# 84  
Delta R.T. 0.000 min  
Lab File: VX025543.D  
Acq: 06 Dec 2021 12:57

Instrument :  
MSVOA\_X  
ClientSampleId :

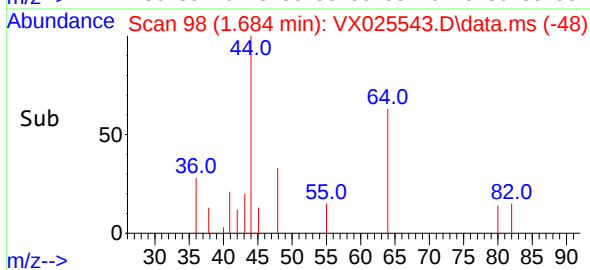
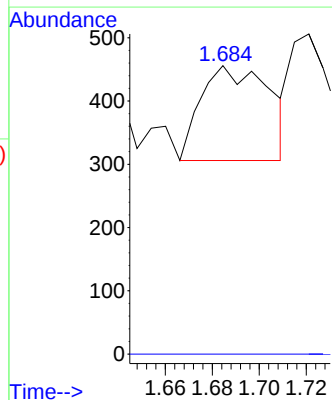
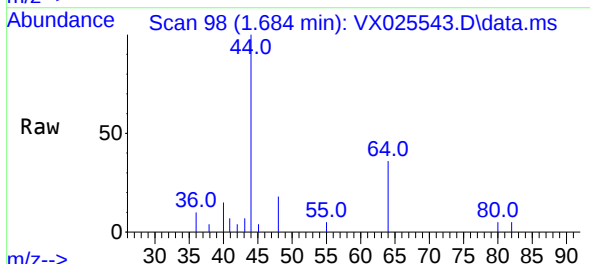


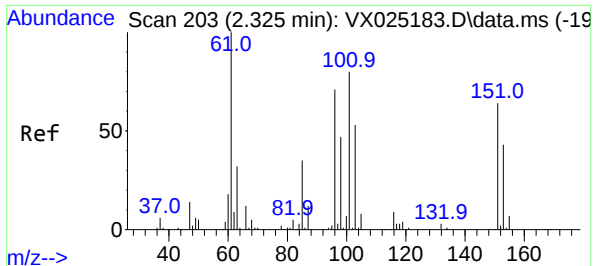
Tgt Ion: 94 Resp: 300  
Ion Ratio Lower Upper  
94 100  
96 97.8 74.8 112.2



#6  
Chloroethane  
Concen: 0.371 ug/l  
RT: 1.684 min Scan# 98  
Delta R.T. 0.005 min  
Lab File: VX025543.D  
Acq: 06 Dec 2021 12:57

Tgt Ion: 64 Resp: 303  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.6 38.4#

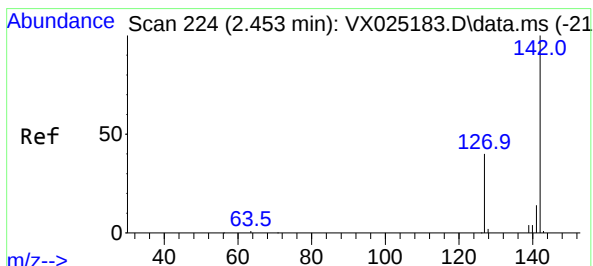
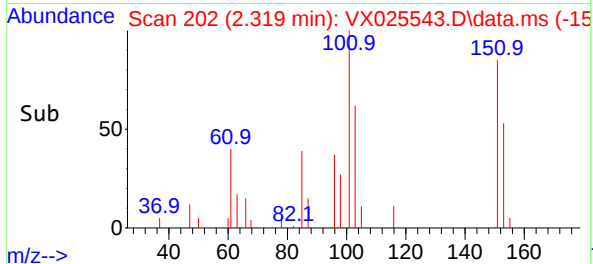
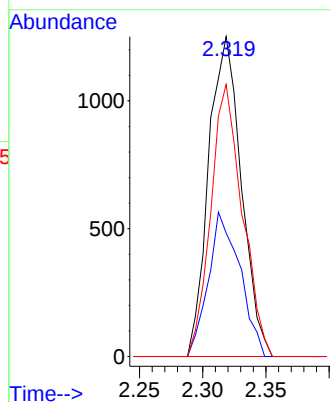
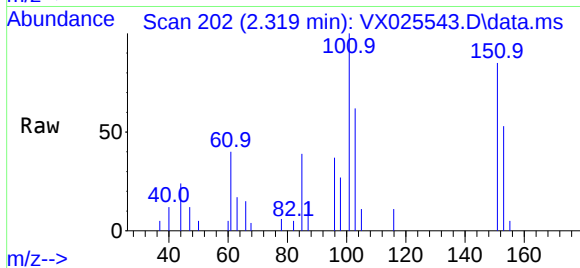




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 2.406 ug/l  
RT: 2.319 min Scan# 203  
Delta R.T. -0.006 min  
Lab File: VX025543.D  
Acq: 06 Dec 2021 12:57

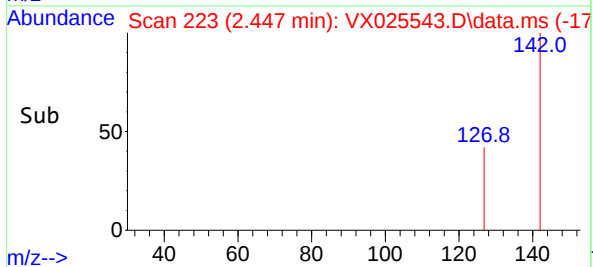
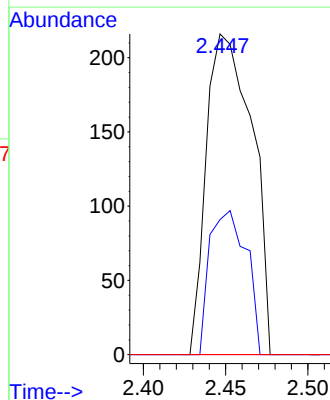
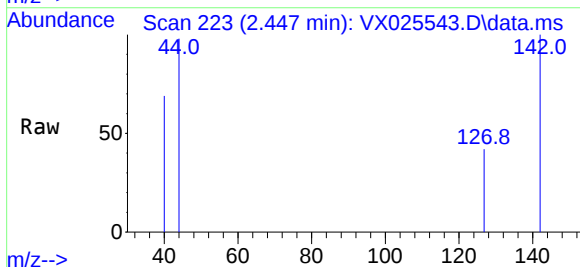
Instrument :  
MSVOA\_X  
ClientSampleId :

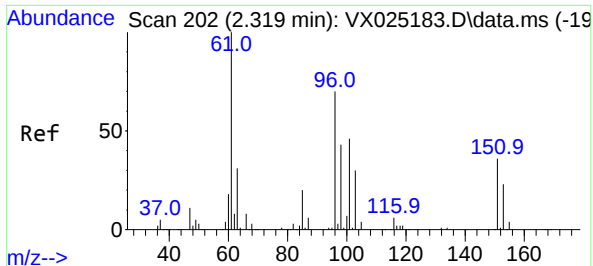
Tgt Ion:101 Resp: 2247  
Ion Ratio Lower Upper  
101 100  
85 43.5 35.9 53.9  
151 82.1 64.4 96.6



#10  
Methyl Iodide  
Concen: 0.357 ug/l  
RT: 2.447 min Scan# 223  
Delta R.T. -0.006 min  
Lab File: VX025543.D  
Acq: 06 Dec 2021 12:57

Tgt Ion:142 Resp: 417  
Ion Ratio Lower Upper  
142 100  
127 36.2 38.9 58.3#  
141 0.0 11.7 17.5#





#12

1,1-Dichloroethene

Concen: 1.031 ug/l

RT: 2.306 min Scan# 200

Delta R.T. -0.013 min

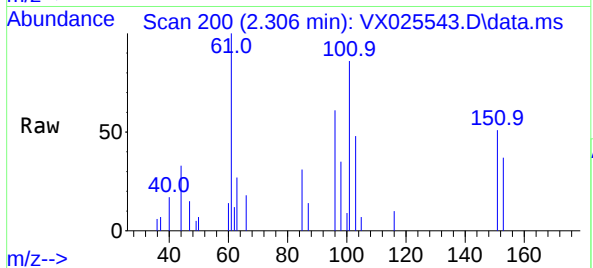
Lab File: VX025543.D

Acq: 06 Dec 2021 12:57

Instrument :

MSVOA\_X

ClientSampleId :



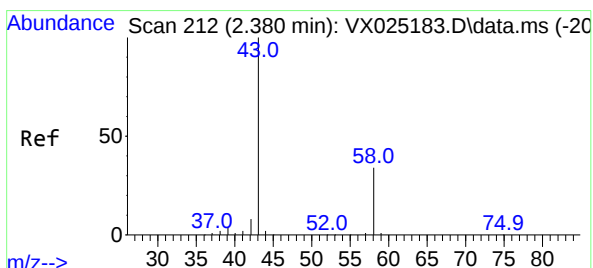
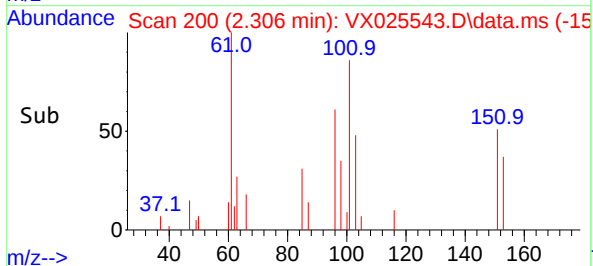
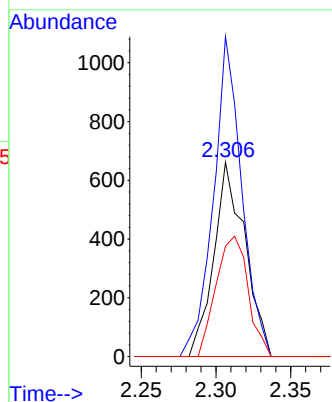
Tgt Ion: 96 Resp: 959

Ion Ratio Lower Upper

96 100

61 164.5 134.1 201.1

98 56.8 51.5 77.3



#16

Acetone

Concen: 0.839 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.012 min

Lab File: VX025543.D

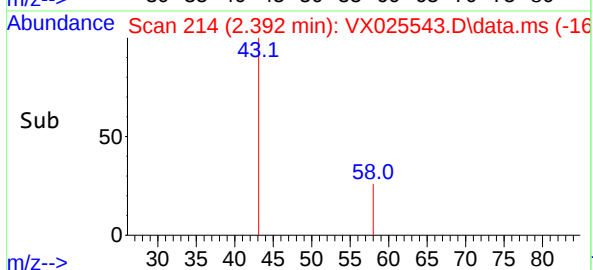
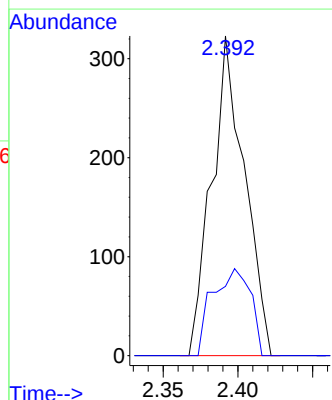
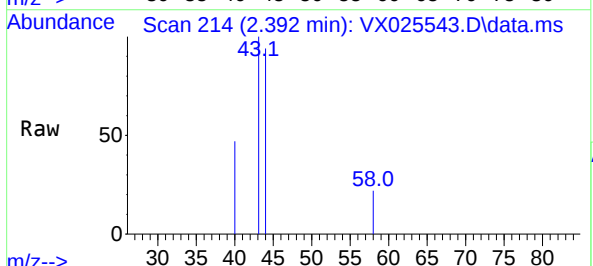
Acq: 06 Dec 2021 12:57

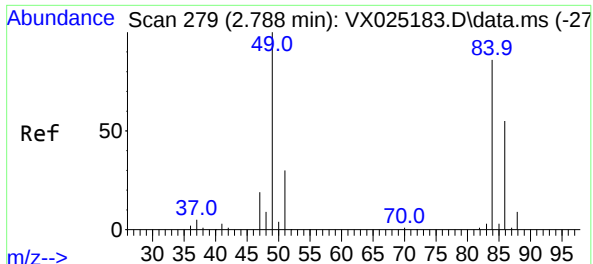
Tgt Ion: 43 Resp: 493

Ion Ratio Lower Upper

43 100

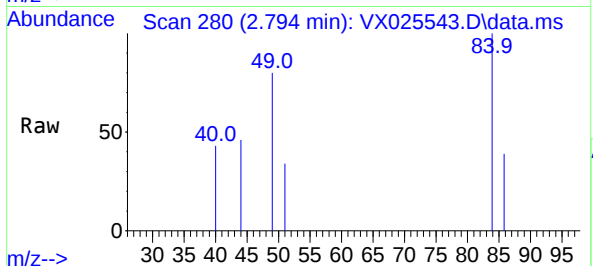
58 21.7 24.0 36.0#





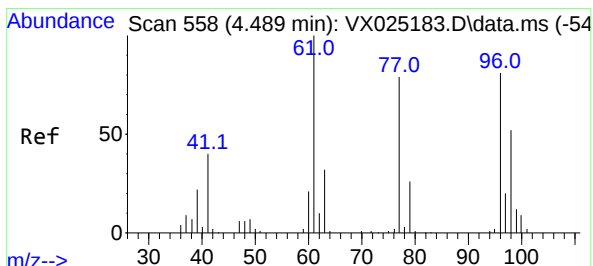
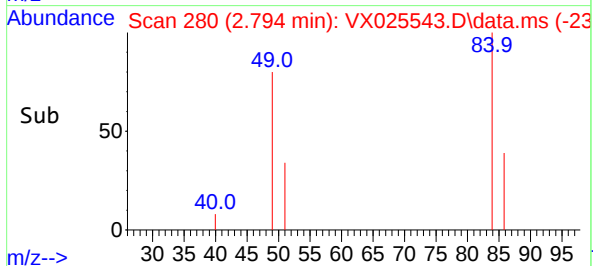
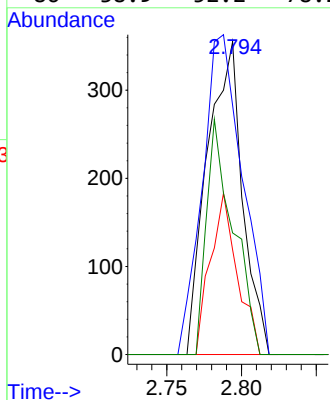
#20  
Methylene Chloride  
Concen: 0.528 ug/l  
RT: 2.794 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX025543.D  
Acq: 06 Dec 2021 12:57

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 84 Resp: 583

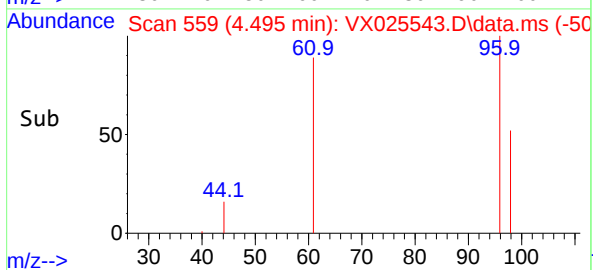
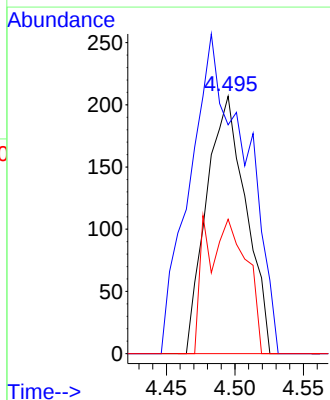
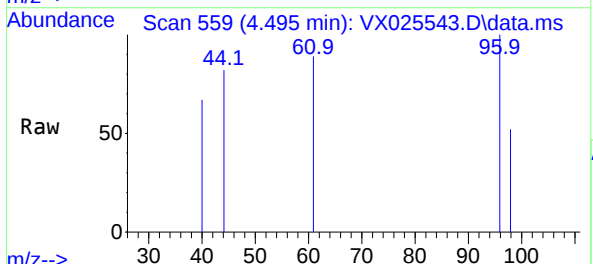
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 79.7  | 98.2  | 147.2# |
| 51  | 33.5  | 30.2  | 45.4   |
| 86  | 38.9  | 52.2  | 78.2#  |

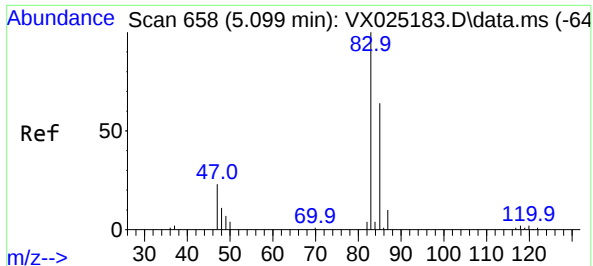


#27  
cis-1,2-Dichloroethene  
Concen: 0.349 ug/l  
RT: 4.495 min Scan# 559  
Delta R.T. 0.006 min  
Lab File: VX025543.D  
Acq: 06 Dec 2021 12:57

Tgt Ion: 96 Resp: 415

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 174.0 | 0.0   | 302.2 |
| 98  | 53.7  | 0.0   | 131.4 |





#30

Chloroform

Concen: 0.346 ug/l

RT: 5.111 min Scan# 6

Delta R.T. 0.012 min

Lab File: VX025543.D

Acq: 06 Dec 2021 12:57

Instrument :

MSVOA\_X

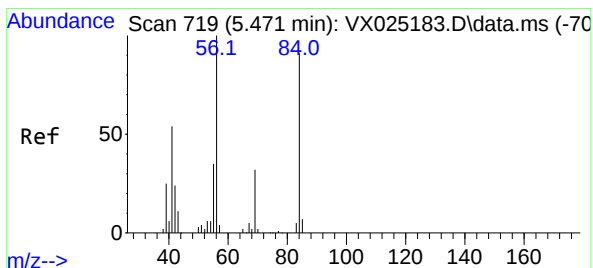
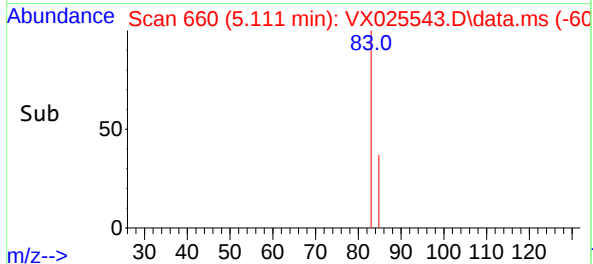
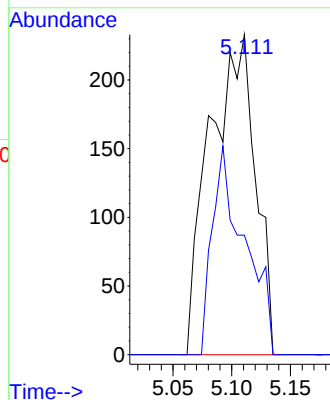
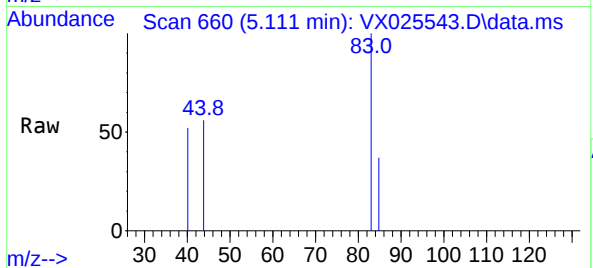
ClientSampleId :

Tgt Ion: 83 Resp: 630

Ion Ratio Lower Upper

83 100

85 37.3 50.2 75.2#



#31

Cyclohexane

Concen: 1.066 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.079 min

Lab File: VX025543.D

Acq: 06 Dec 2021 12:57

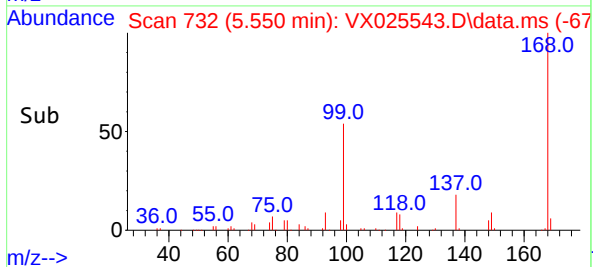
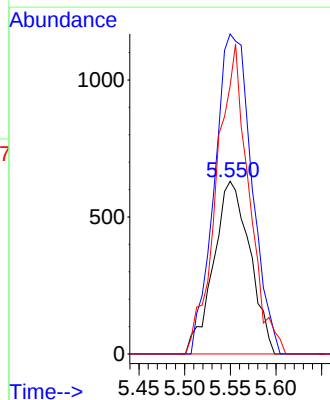
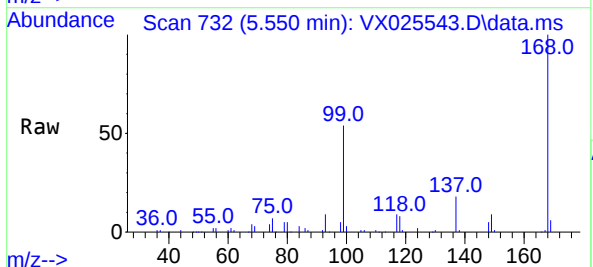
Tgt Ion: 56 Resp: 1743

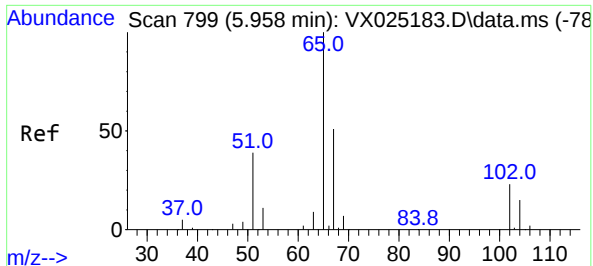
Ion Ratio Lower Upper

56 100

69 185.4 24.2 36.2#

84 155.4 71.5 107.3#





#33

1,2-Dichloroethane-d4

Concen: 55.088 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX025543.D

Acq: 06 Dec 2021 12:57

Instrument :

MSVOA\_X

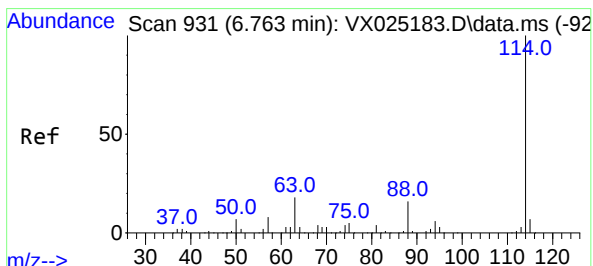
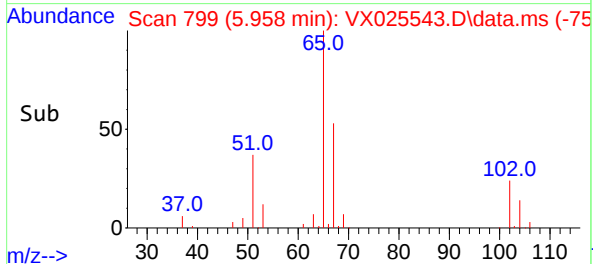
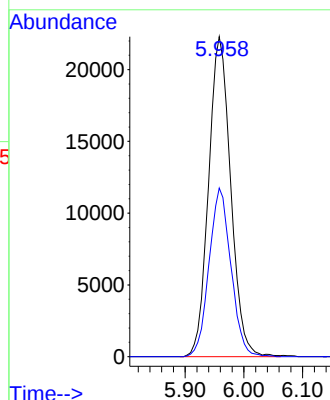
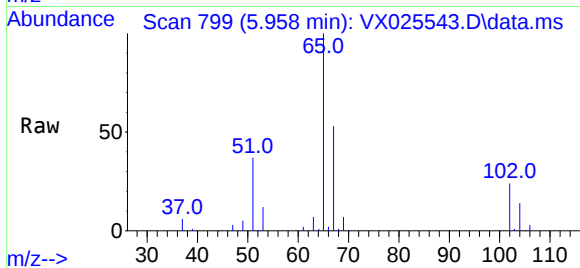
ClientSampleId :

Tgt Ion: 65 Resp: 58271

Ion Ratio Lower Upper

65 100

67 52.1 0.0 101.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.000 min

Lab File: VX025543.D

Acq: 06 Dec 2021 12:57

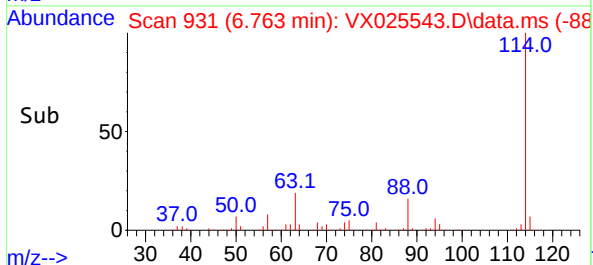
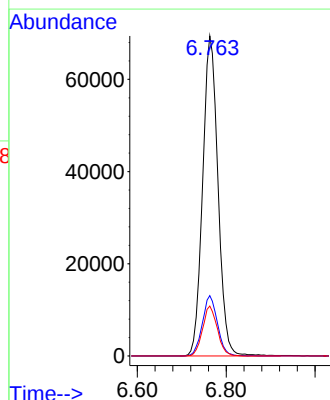
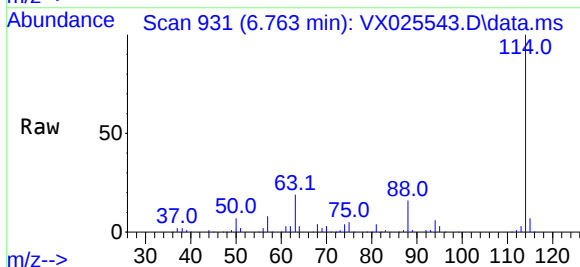
Tgt Ion: 114 Resp: 166898

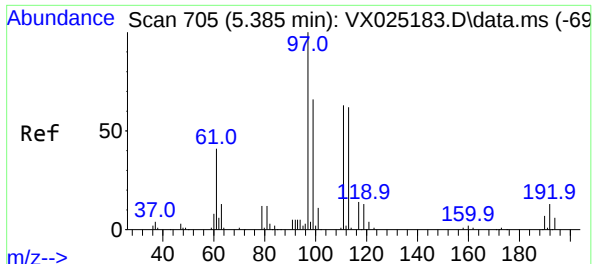
Ion Ratio Lower Upper

114 100

63 18.9 0.0 41.0

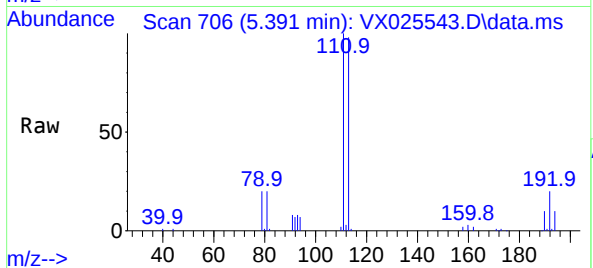
88 15.6 0.0 34.8



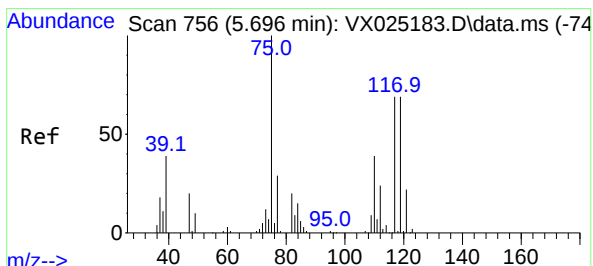
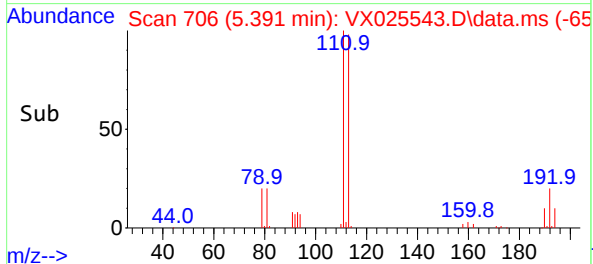
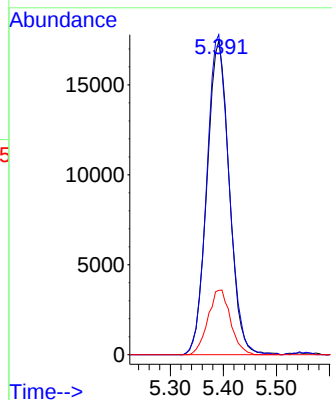


#35  
Dibromofluoromethane  
Concen: 49.755 ug/l  
RT: 5.391 min Scan# 705  
Delta R.T. 0.006 min  
Lab File: VX025543.D  
Acq: 06 Dec 2021 12:57

Instrument :  
MSVOA\_X  
ClientSampleId :

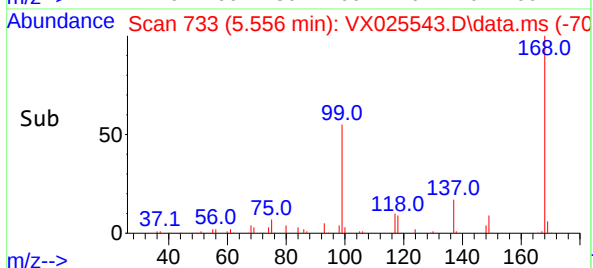
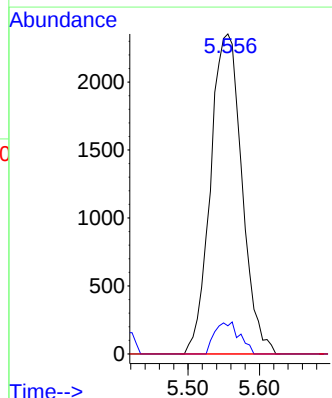
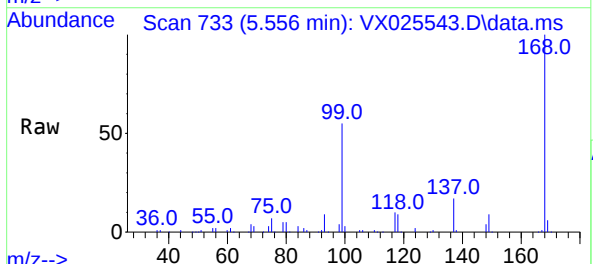


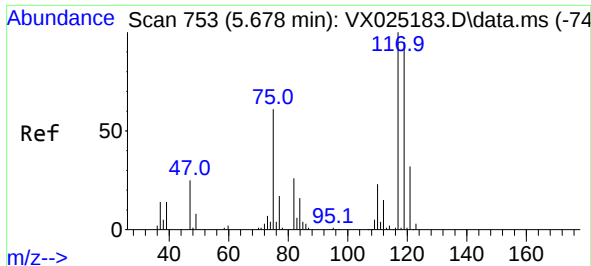
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 50951 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 101.6 | 82.1  | 123.1 |
| 192      | 20.8  | 15.6  | 23.4  |



#36  
1,1-Dichloropropene  
Concen: 4.933 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.140 min  
Lab File: VX025543.D  
Acq: 06 Dec 2021 12:57

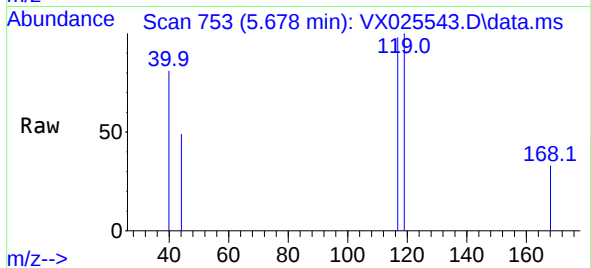
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 7183  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 7.9   | 18.1  | 54.3# |
| 77       | 0.0   | 24.4  | 36.6# |



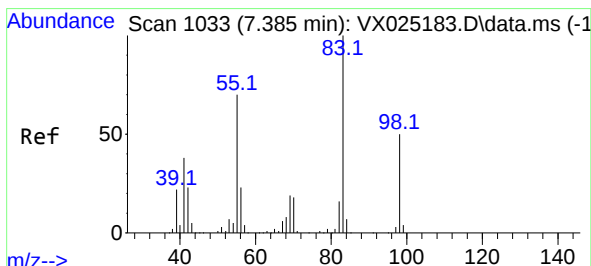
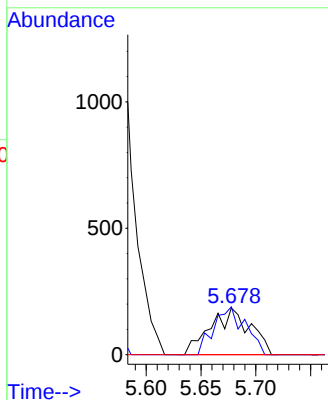
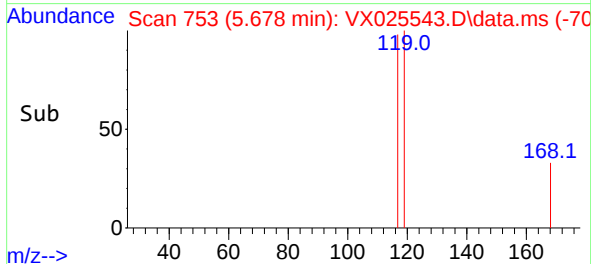


#38  
Carbon Tetrachloride  
Concen: 0.291 ug/l  
RT: 5.678 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX025543.D  
Acq: 06 Dec 2021 12:57

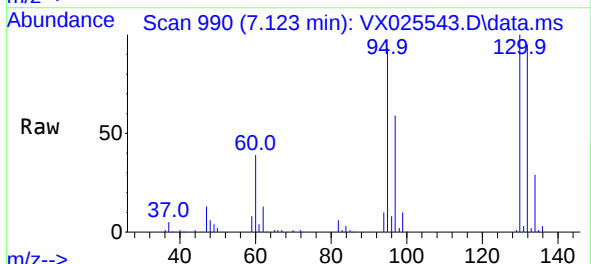
Instrument :  
MSVOA\_X  
ClientSampleId :



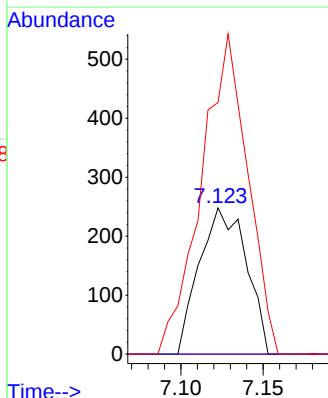
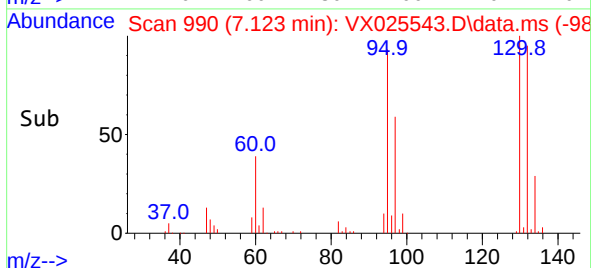
Tgt Ion:117 Resp: 467  
Ion Ratio Lower Upper  
117 100  
119 102.2 75.6 113.4  
121 0.0 23.7 35.5#

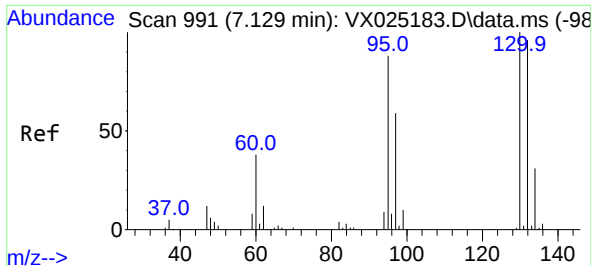


#39  
Methylcyclohexane  
Concen: 0.264 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. -0.262 min  
Lab File: VX025543.D  
Acq: 06 Dec 2021 12:57



Tgt Ion: 83 Resp: 494  
Ion Ratio Lower Upper  
83 100  
55 0.0 60.8 91.2#  
98 172.2 37.0 55.4#

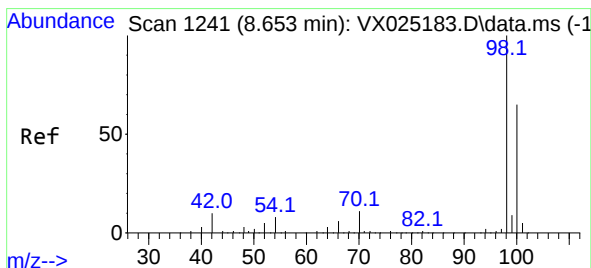
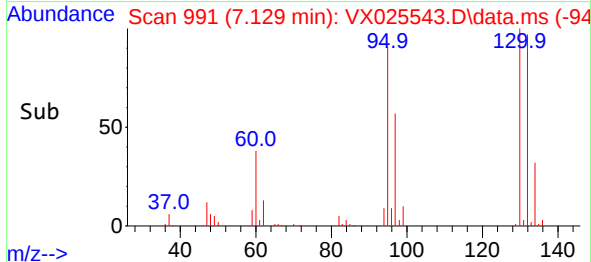
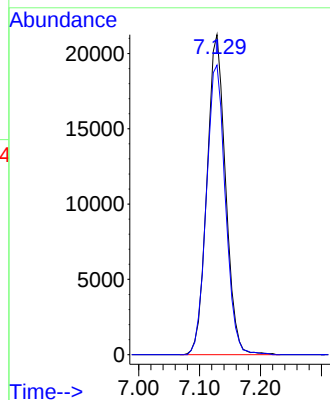
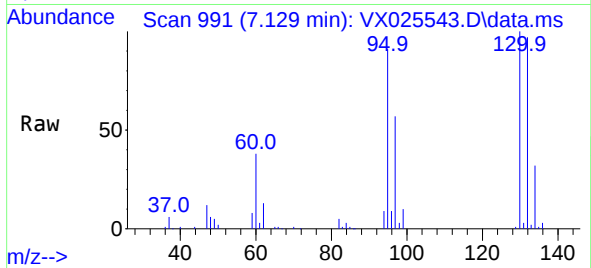




#44  
Trichloroethene  
Concen: 35.210 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. -0.000 min  
Lab File: VX025543.D  
Acq: 06 Dec 2021 12:57

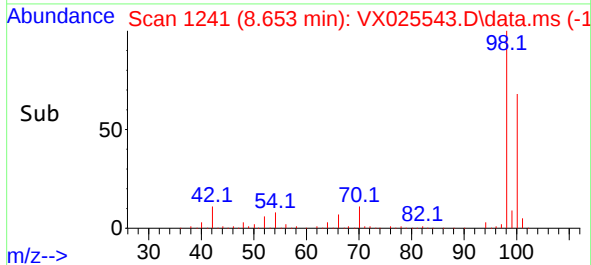
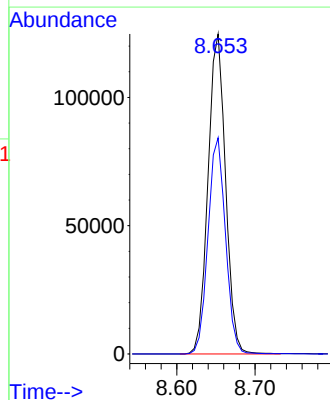
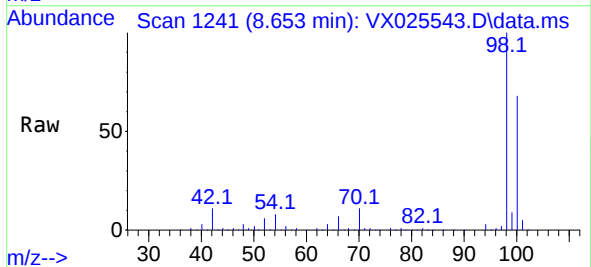
Instrument :  
MSVOA\_X  
ClientSampleId :

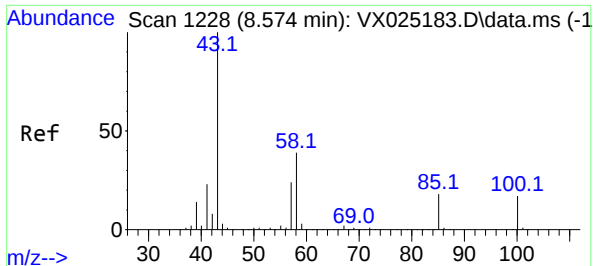
Tgt Ion:130 Resp: 45118  
Ion Ratio Lower Upper  
130 100  
95 90.5 0.0 196.8



#50  
Toluene-d8  
Concen: 50.282 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX025543.D  
Acq: 06 Dec 2021 12:57

Tgt Ion: 98 Resp: 193598  
Ion Ratio Lower Upper  
98 100  
100 67.3 51.4 77.0





#51

4-Methyl-2-Pentanone

Concen: 0.529 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.073 min

Lab File: VX025543.D

Acq: 06 Dec 2021 12:57

Instrument :

MSVOA\_X

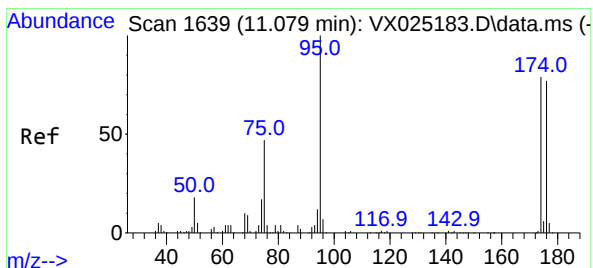
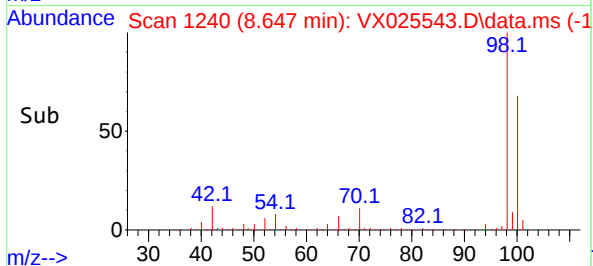
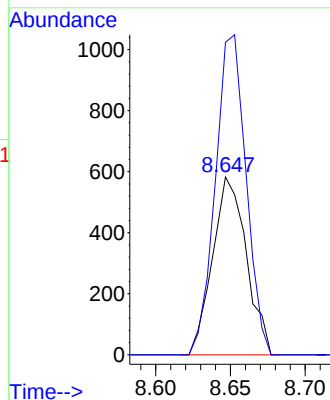
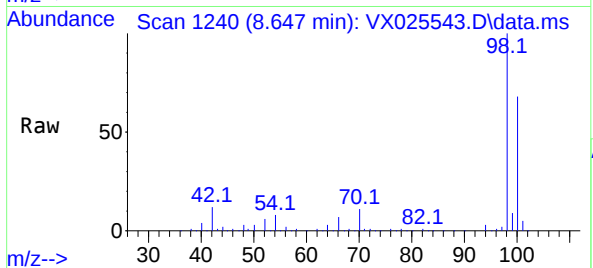
ClientSampleId :

Tgt Ion: 43 Resp: 915

Ion Ratio Lower Upper

43 100

58 163.8 30.9 46.3#



#62

4-Bromofluorobenzene

Concen: 50.355 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. 0.006 min

Lab File: VX025543.D

Acq: 06 Dec 2021 12:57

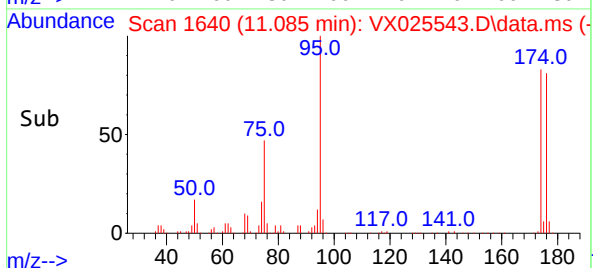
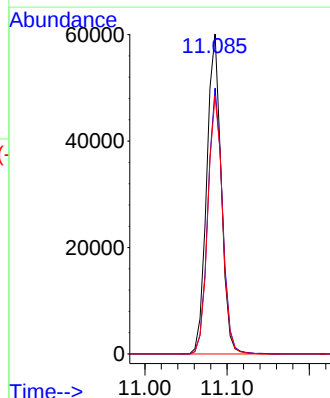
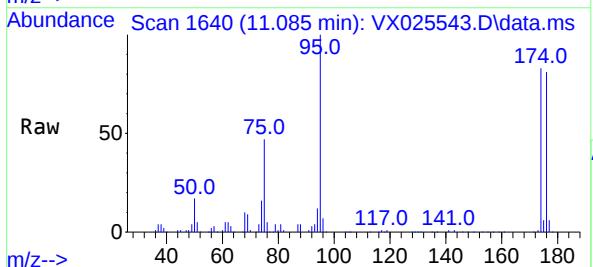
Tgt Ion: 95 Resp: 73346

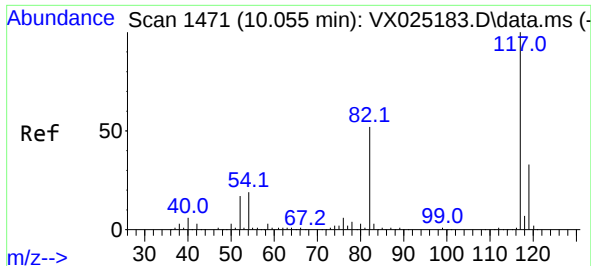
Ion Ratio Lower Upper

95 100

174 83.5 0.0 158.0

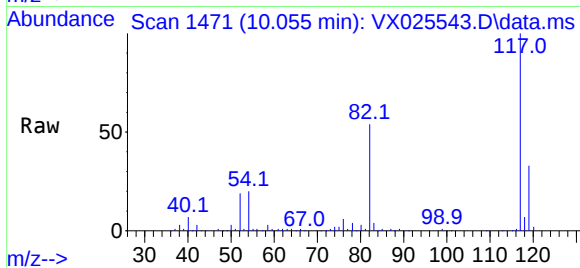
176 81.4 0.0 153.6



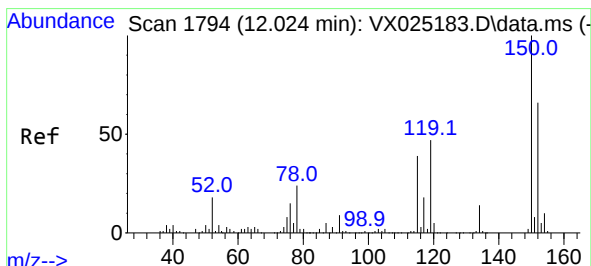
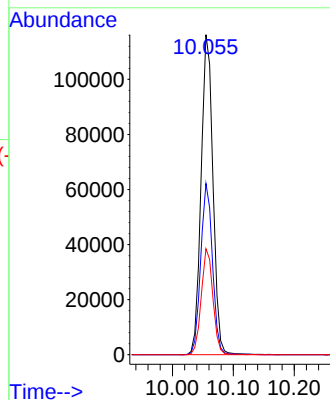
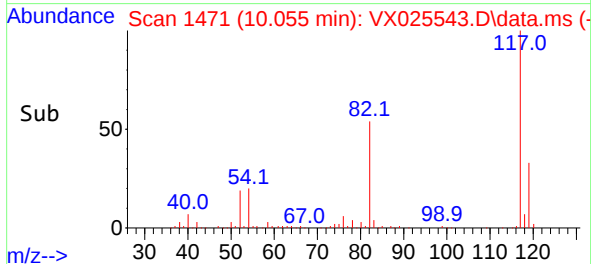


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX025543.D  
Acq: 06 Dec 2021 12:57

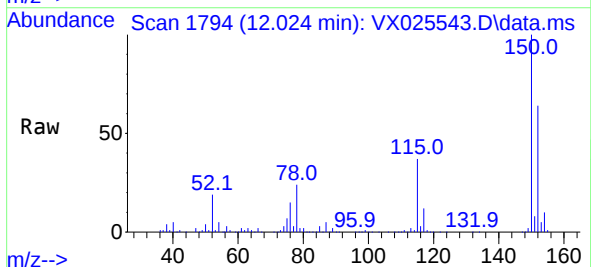
Instrument :  
MSVOA\_X  
ClientSampleId :



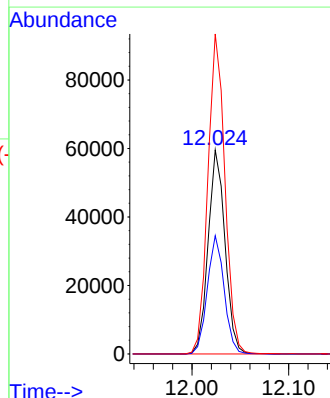
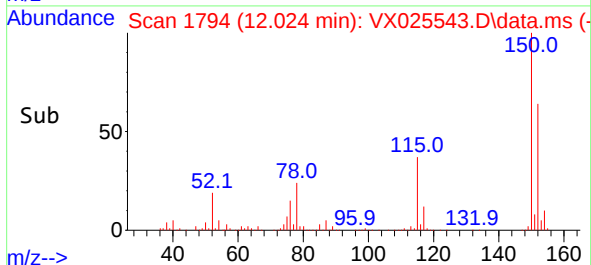
Tgt Ion:117 Resp: 157749  
Ion Ratio Lower Upper  
117 100  
82 53.5 44.6 67.0  
119 33.1 24.8 37.2

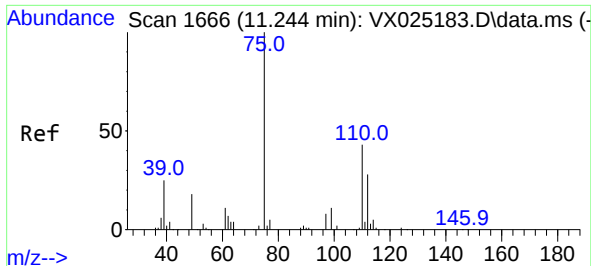


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX025543.D  
Acq: 06 Dec 2021 12:57



Tgt Ion:152 Resp: 72431  
Ion Ratio Lower Upper  
152 100  
115 57.9 43.3 129.8  
150 158.1 0.0 351.2

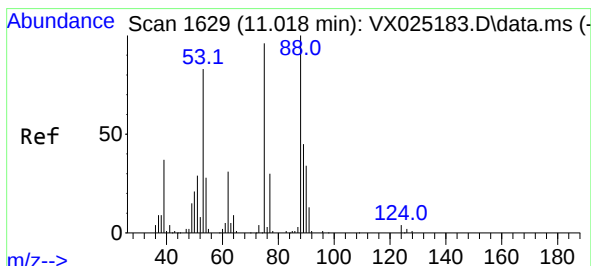
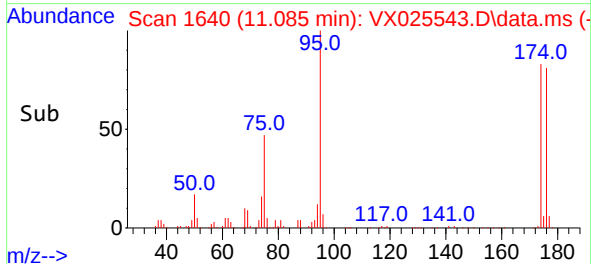
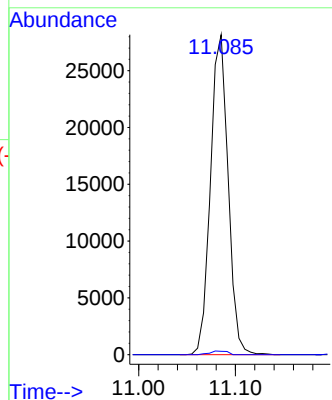
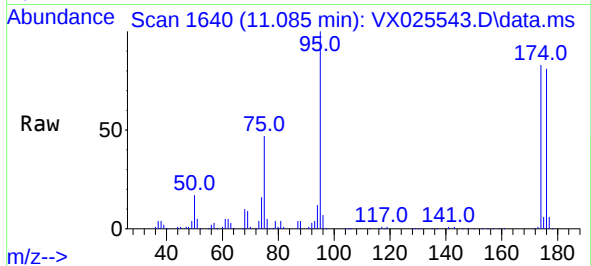




#76  
1,2,3-Trichloropropane  
Concen: 24.093 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX025543.D  
Acq: 06 Dec 2021 12:57

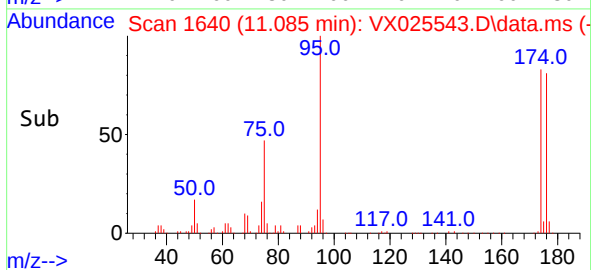
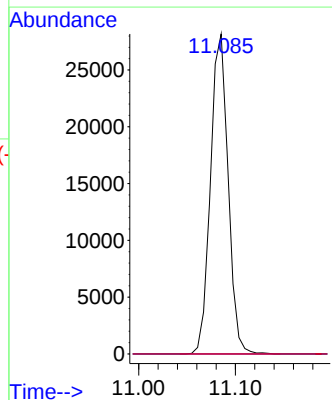
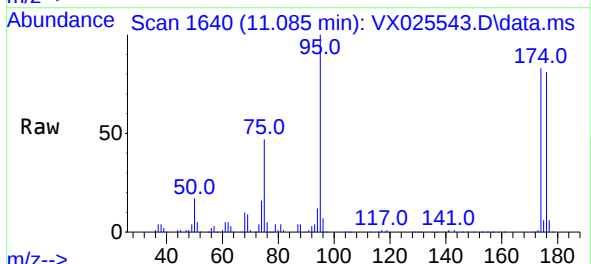
Instrument :  
MSVOA\_X  
ClientSampleId :

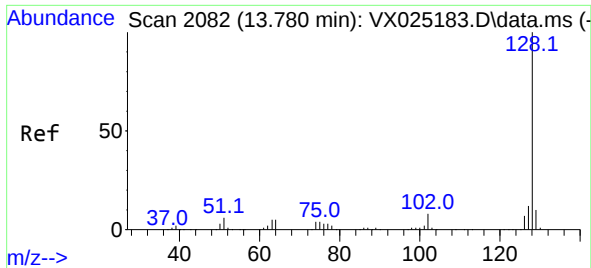
Tgt Ion: 75 Resp: 35735  
Ion Ratio Lower Upper  
75 100  
77 1.1 20.0 59.9#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 60.693 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.067 min  
Lab File: VX025543.D  
Acq: 06 Dec 2021 12:57

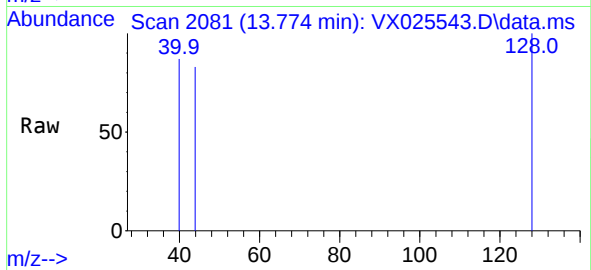
Tgt Ion: 75 Resp: 35735  
Ion Ratio Lower Upper  
75 100  
53 0.0 81.9 122.9#  
89 0.0 38.2 57.2#





#95  
Naphthalene  
Concen: Below Cal  
RT: 13.774 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: VX025543.D  
Acq: 06 Dec 2021 12:57

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion:128 Resp: 143  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.8 13.2#

