

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX080924\  
 Data File : VX043001.D  
 Acq On : 09 Aug 2024 17:24  
 Operator : JC/MD  
 Sample : P3410-01DL 100X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 GW-S-864-9-14-073024DL

Quant Time: Aug 09 23:28:27 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X080724W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 07 02:55:22 2024  
 Response via : Initial Calibration

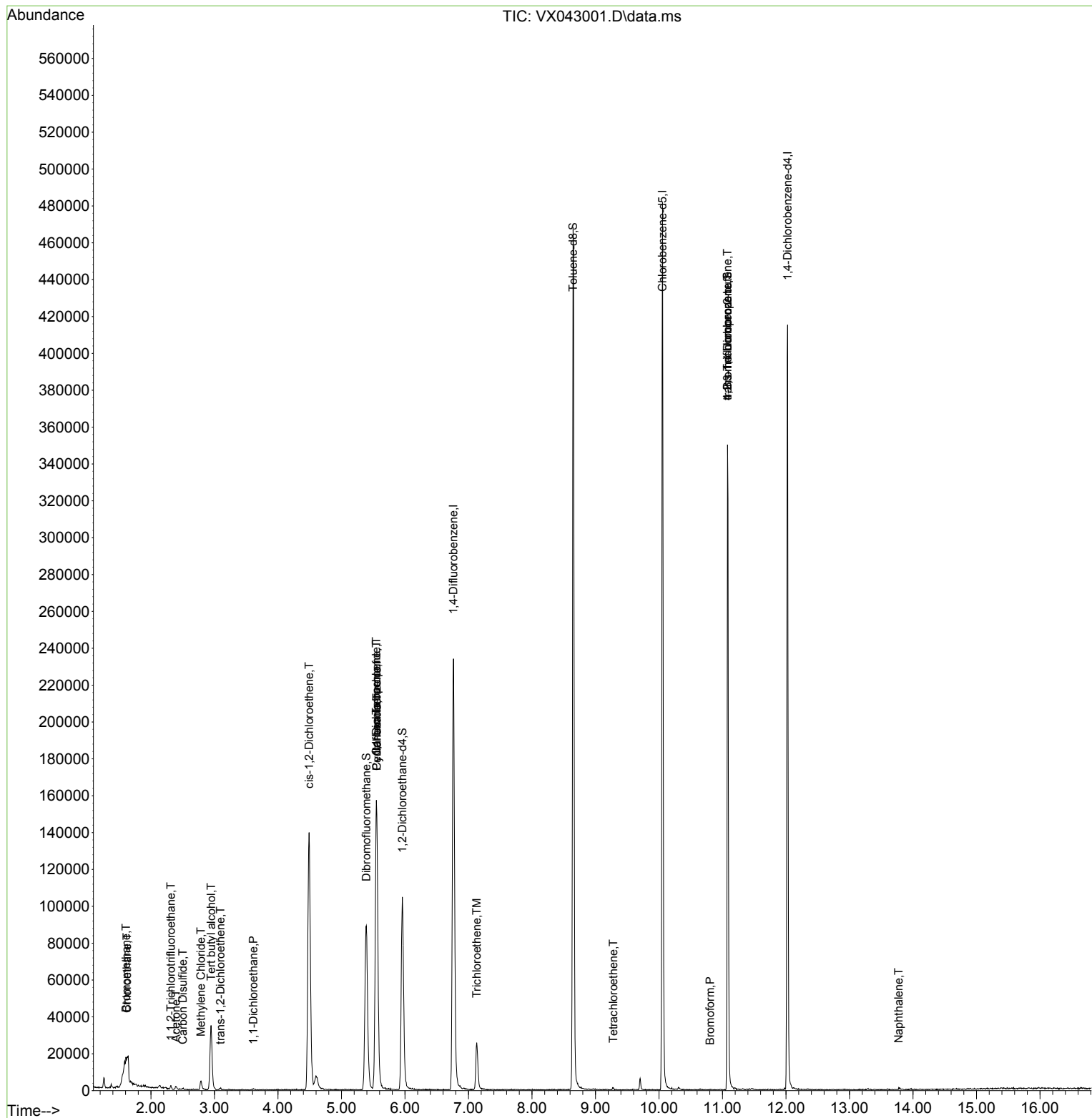
| Compound                      | R.T. QIon |                | Response | Conc       | Units | Dev(Min) |
|-------------------------------|-----------|----------------|----------|------------|-------|----------|
| -----                         |           |                |          |            |       |          |
| Internal Standards            |           |                |          |            |       |          |
| 1) Pentafluorobenzene         | 5.556     | 168            | 147988   | 50.000     | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.763     | 114            | 239439   | 50.000     | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.055    | 117            | 210626   | 50.000     | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024    | 152            | 87830    | 50.000     | ug/l  | 0.00     |
| System Monitoring Compounds   |           |                |          |            |       |          |
| 33) 1,2-Dichloroethane-d4     | 5.958     | 65             | 103219   | 50.807     | ug/l  | 0.00     |
| Spiked Amount                 | 50.000    | Range 78 - 117 | Recovery | = 101.620% |       |          |
| 35) Dibromofluoromethane      | 5.391     | 113            | 79298    | 50.651     | ug/l  | 0.00     |
| Spiked Amount                 | 50.000    | Range 75 - 124 | Recovery | = 101.300% |       |          |
| 50) Toluene-d8                | 8.647     | 98             | 292845   | 52.691     | ug/l  | 0.00     |
| Spiked Amount                 | 50.000    | Range 92 - 112 | Recovery | = 105.380% |       |          |
| 62) 4-Bromofluorobenzene      | 11.079    | 95             | 94289    | 47.211     | ug/l  | 0.00     |
| Spiked Amount                 | 50.000    | Range 83 - 123 | Recovery | = 94.420%  |       |          |
| Target Compounds              |           |                |          |            |       |          |
|                               |           |                |          |            |       | Qvalue   |
| 5) Bromomethane               | 1.605     | 94             | 881      | 0.883      | ug/l  | # 44     |
| 6) Chloroethane               | 1.624     | 64             | 354      | 0.377      | ug/l  | # 43     |
| 9) 1,1,2-Trichlorotrifluo...  | 2.313     | 101            | 398      | 0.247      | ug/l  | # 59     |
| 11) Tert butyl alcohol        | 2.947     | 59             | 20936    | 51.810     | ug/l  | # 82     |
| 16) Acetone                   | 2.392     | 43             | 2085     | 2.366      | ug/l  | 96       |
| 17) Carbon Disulfide          | 2.502     | 76             | 906      | 0.228      | ug/l  | # 76     |
| 20) Methylene Chloride        | 2.788     | 84             | 2812     | 0.632      | ug/l  | # 71     |
| 21) trans-1,2-Dichloroethene  | 3.093     | 96             | 349      | 0.213      | ug/l  | # 60     |
| 24) 1,1-Dichloroethane        | 3.611     | 63             | 892      | 0.286      | ug/l  | # 83     |
| 27) cis-1,2-Dichloroethene    | 4.489     | 96             | 90357    | 46.428     | ug/l  | 85       |
| 31) Cyclohexane               | 5.556     | 56             | 3624     | 1.426      | ug/l  | # 1      |
| 36) 1,1-Dichloropropene       | 5.550     | 75             | 12450    | 5.865      | ug/l  | # 46     |
| 38) Carbon Tetrachloride      | 5.550     | 117            | 15604    | 6.512      | ug/l  | # 14     |
| 44) Trichloroethene           | 7.129     | 130            | 10774    | 6.509      | ug/l  | 96       |
| 64) Tetrachloroethene         | 9.281     | 164            | 310      | 0.212      | ug/l  | # 63     |
| 71) Bromoform                 | 10.805    | 173            | 64       | 0.860      | ug/l  | # 29     |
| 76) 1,2,3-Trichloropropane    | 11.079    | 75             | 47854    | 24.227     | ug/l  | # 38     |
| 81) trans-1,4-Dichloro-2-b... | 11.079    | 75             | 47854    | 78.773     | ug/l  | # 5      |
| 95) Naphthalene               | 13.774    | 128            | 1243     | 0.201      | ug/l  | # 75     |
| -----                         |           |                |          |            |       |          |

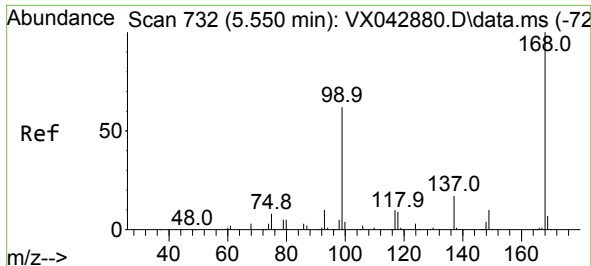
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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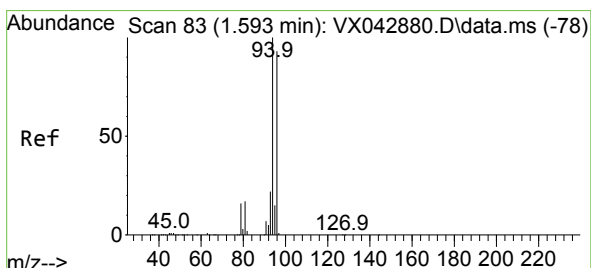
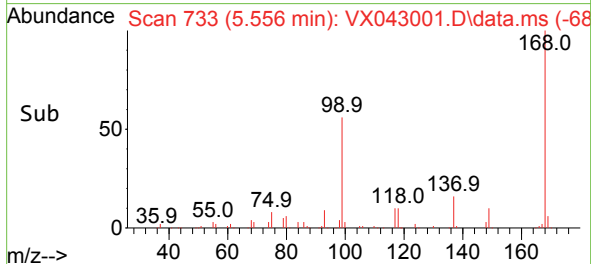
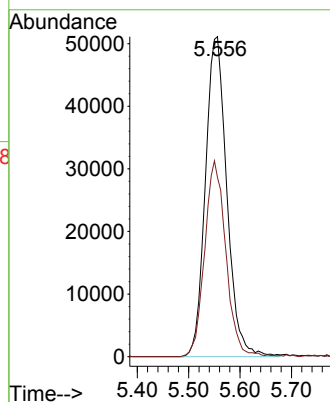
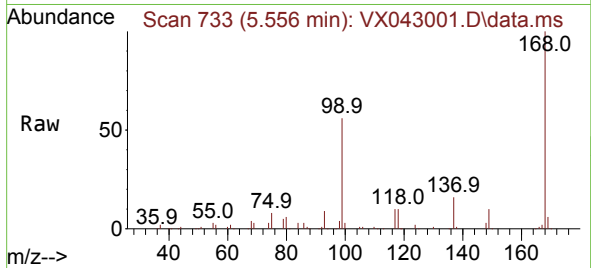




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX043001.D  
Acq: 09 Aug 2024 17:24

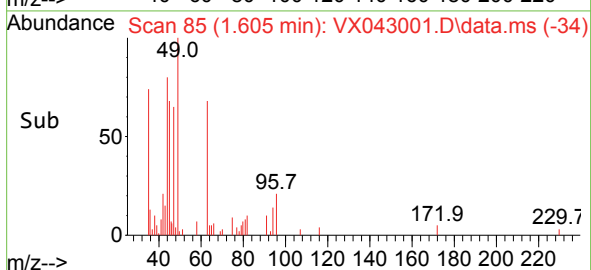
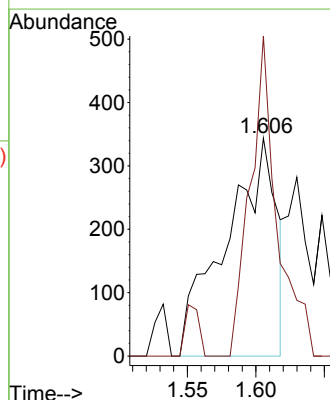
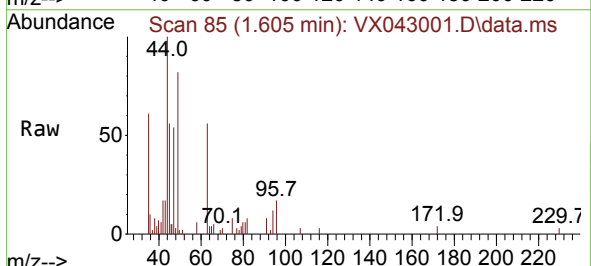
Instrument :  
MSVOA\_X  
ClientSampleId :  
GW-S-864-9-14-073024DL

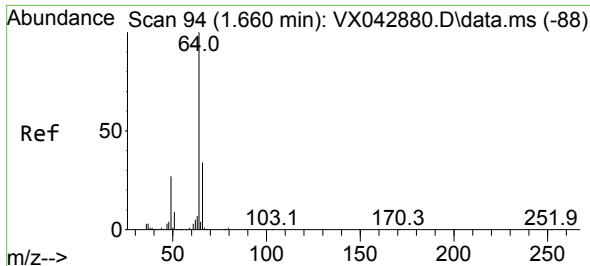
Tgt Ion:168 Resp: 147988  
Ion Ratio Lower Upper  
168 100  
99 56.0 56.6 85.0#



#5  
Bromomethane  
Concen: 0.883 ug/l  
RT: 1.605 min Scan# 85  
Delta R.T. 0.012 min  
Lab File: VX043001.D  
Acq: 09 Aug 2024 17:24

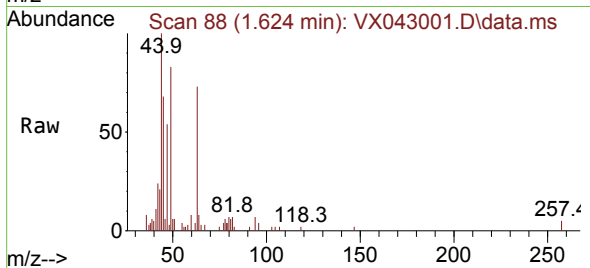
Tgt Ion: 94 Resp: 881  
Ion Ratio Lower Upper  
94 100  
96 146.8 74.6 111.8#



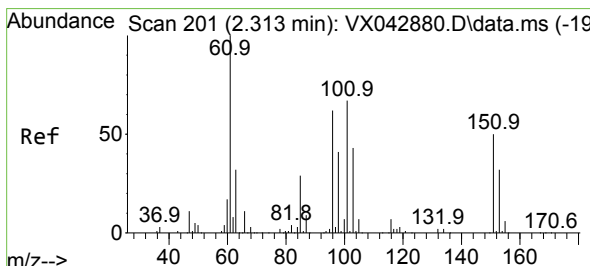
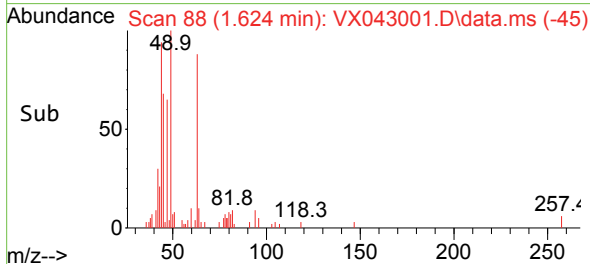
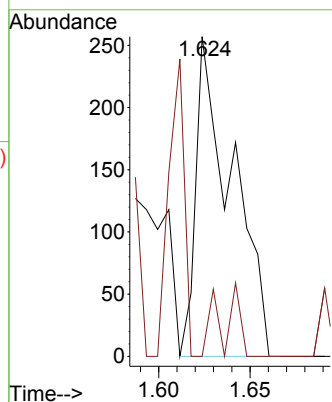


#6  
Chloroethane  
Concen: 0.377 ug/l  
RT: 1.624 min Scan# 81  
Delta R.T. -0.037 min  
Lab File: VX043001.D  
Acq: 09 Aug 2024 17:24

Instrument :  
MSVOA\_X  
ClientSampleId :  
GW-S-864-9-14-073024DL

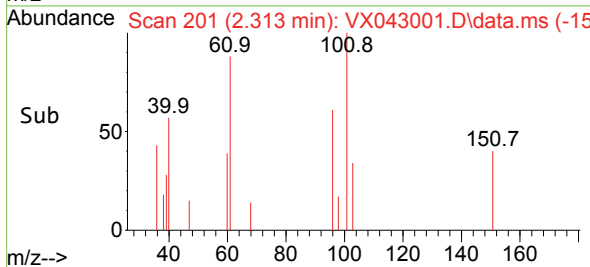
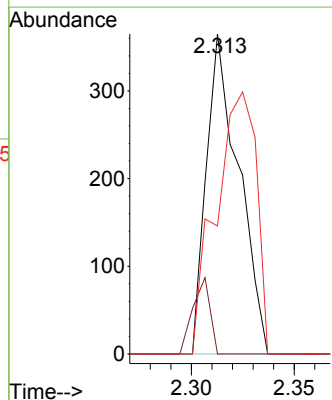
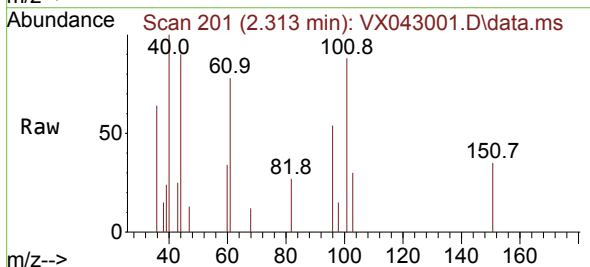


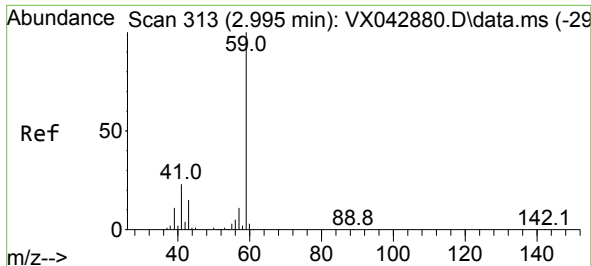
Tgt Ion: 64 Resp: 354  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.1 37.7#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.247 ug/l  
RT: 2.313 min Scan# 201  
Delta R.T. 0.000 min  
Lab File: VX043001.D  
Acq: 09 Aug 2024 17:24

Tgt Ion: 101 Resp: 398  
Ion Ratio Lower Upper  
101 100  
85 12.8 37.0 55.6#  
151 102.8 58.6 87.8#





#11

Tert butyl alcohol

Concen: 51.810 ug/l

RT: 2.947 min Scan# 305

Delta R.T. -0.049 min

Lab File: VX043001.D

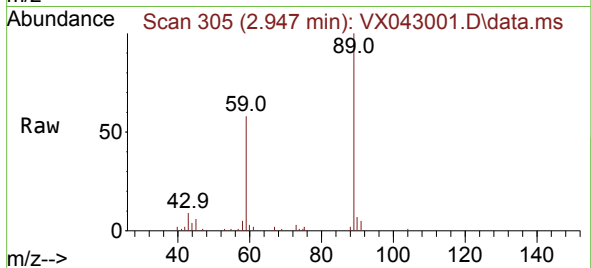
Acq: 09 Aug 2024 17:24

Instrument :

MSVOA\_X

ClientSampleId :

GW-S-864-9-14-073024DL

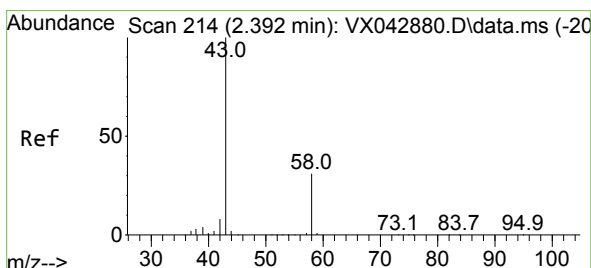
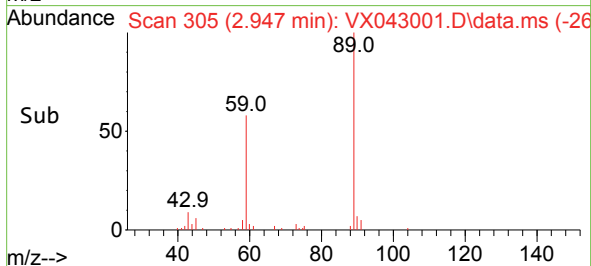
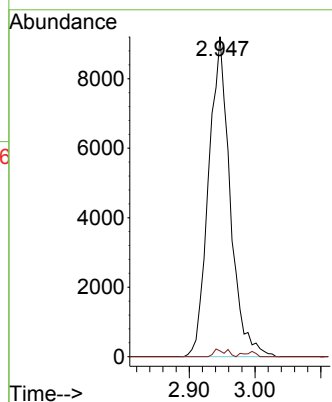


Tgt Ion: 59 Resp: 20936

Ion Ratio Lower Upper

59 100

57 1.4 6.0 9.0#



#16

Acetone

Concen: 2.366 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.000 min

Lab File: VX043001.D

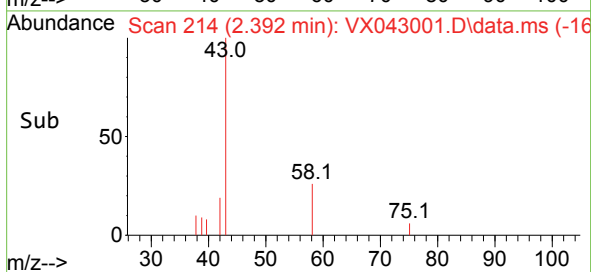
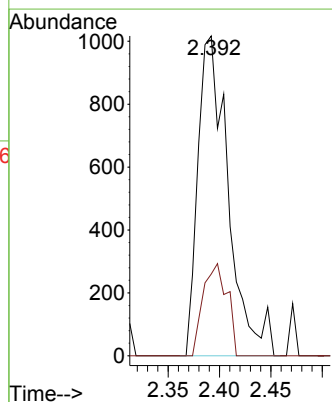
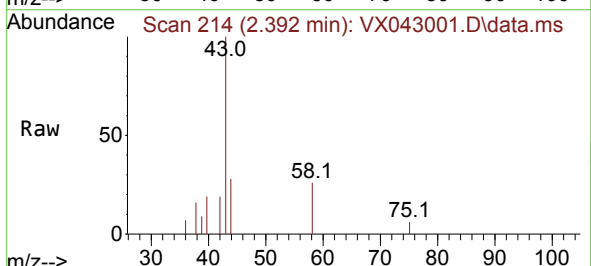
Acq: 09 Aug 2024 17:24

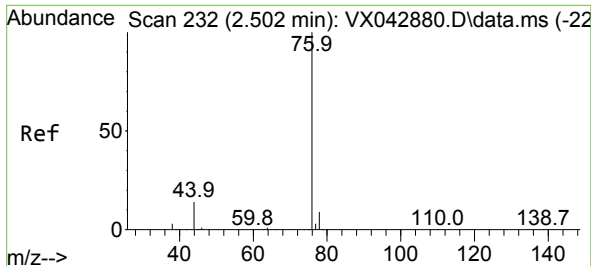
Tgt Ion: 43 Resp: 2085

Ion Ratio Lower Upper

43 100

58 25.6 21.9 32.9

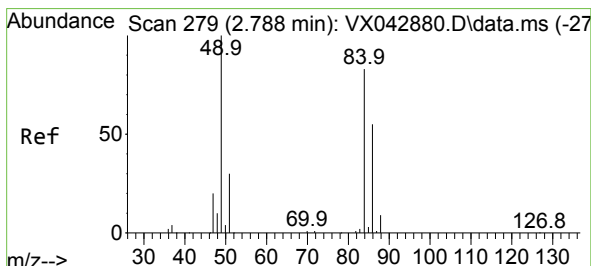
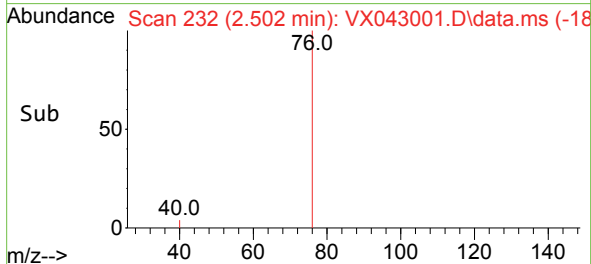
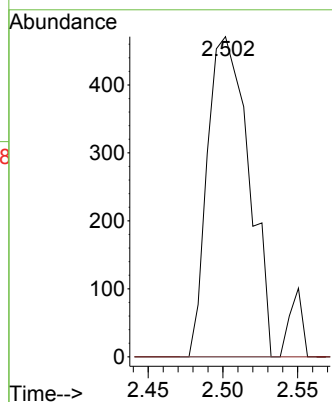
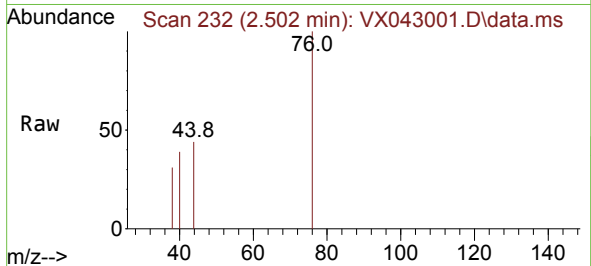




#17  
Carbon Disulfide  
Concen: 0.228 ug/l  
RT: 2.502 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VX043001.D  
Acq: 09 Aug 2024 17:24

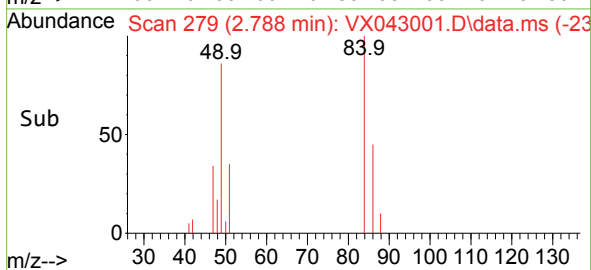
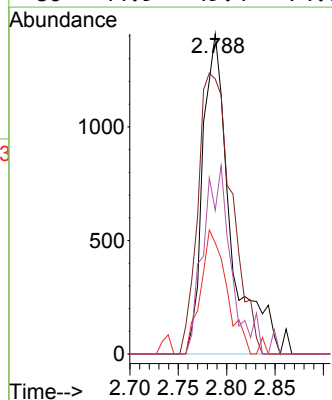
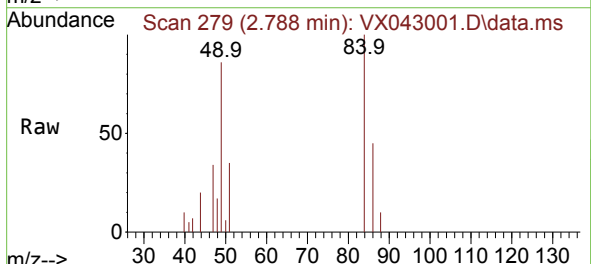
Instrument :  
MSVOA\_X  
ClientSampleId :  
GW-S-864-9-14-073024DL

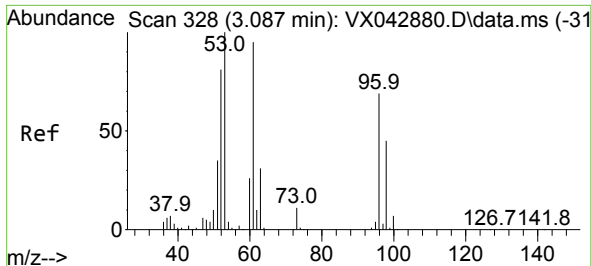
Tgt Ion: 76 Resp: 906  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.0 10.6#



#20  
Methylene Chloride  
Concen: 0.632 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. 0.000 min  
Lab File: VX043001.D  
Acq: 09 Aug 2024 17:24

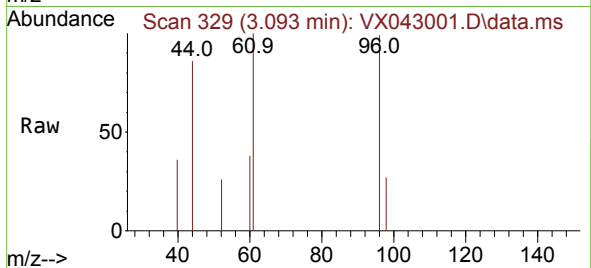
Tgt Ion: 84 Resp: 2812  
Ion Ratio Lower Upper  
84 100  
49 85.9 103.6 155.4#  
51 34.7 33.8 50.6  
86 44.9 49.4 74.0#



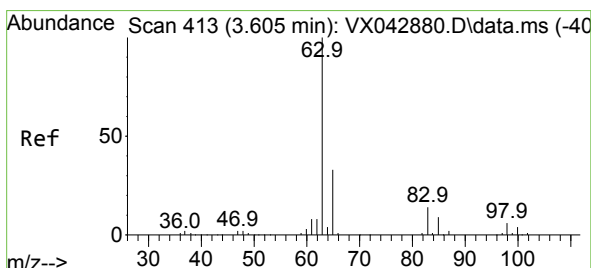
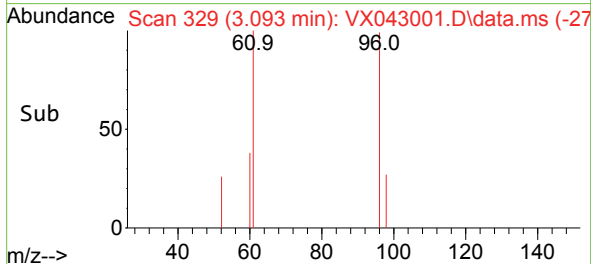
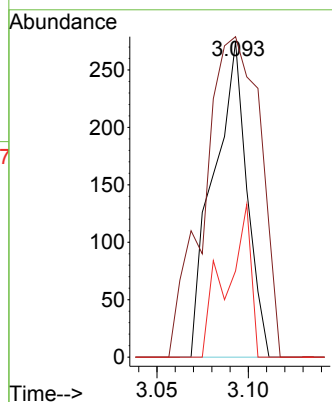


#21  
trans-1,2-Dichloroethene  
Concen: 0.213 ug/l  
RT: 3.093 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VX043001.D  
Acq: 09 Aug 2024 17:24

Instrument :  
MSVOA\_X  
ClientSampleId :  
GW-S-864-9-14-073024DL

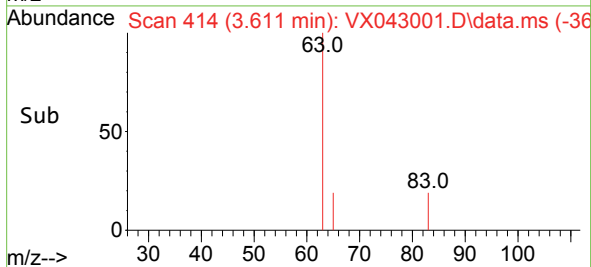
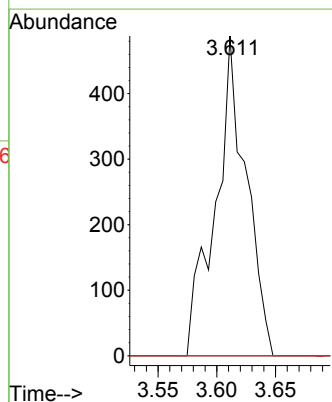
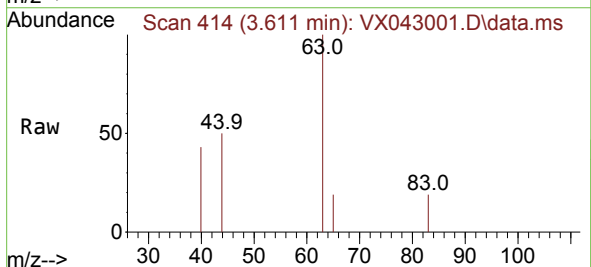


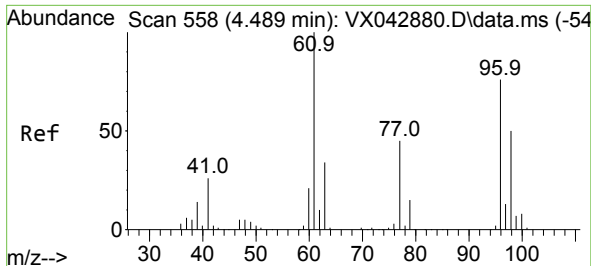
Tgt Ion: 96 Resp: 349  
Ion Ratio Lower Upper  
96 100  
61 101.5 119.2 178.8#  
98 27.3 48.7 73.1#



#24  
1,1-Dichloroethane  
Concen: 0.286 ug/l  
RT: 3.611 min Scan# 414  
Delta R.T. 0.006 min  
Lab File: VX043001.D  
Acq: 09 Aug 2024 17:24

Tgt Ion: 63 Resp: 892  
Ion Ratio Lower Upper  
63 100  
98 0.0 3.3 9.8#  
100 0.0 2.1 6.5#





#27

cis-1,2-Dichloroethene

Concen: 46.428 ug/l

RT: 4.489 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX043001.D

Acq: 09 Aug 2024 17:24

Instrument :

MSVOA\_X

ClientSampleId :

GW-S-864-9-14-073024DL

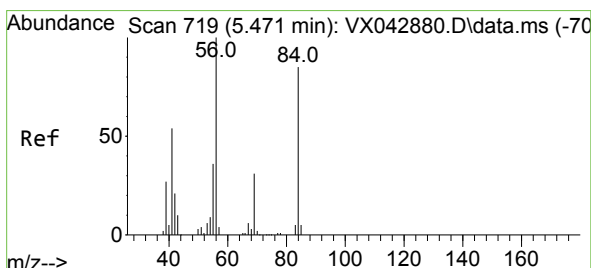
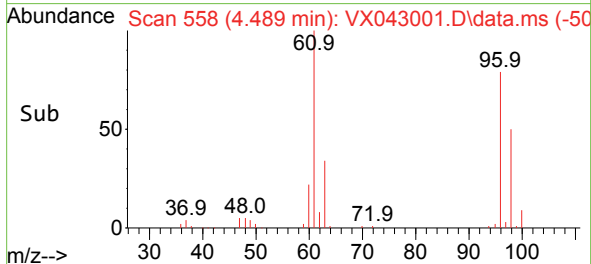
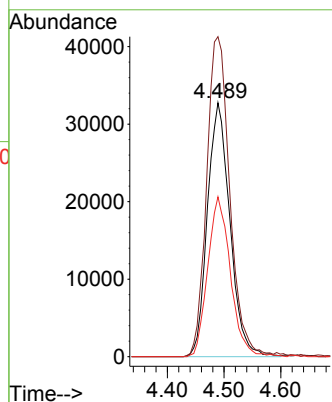
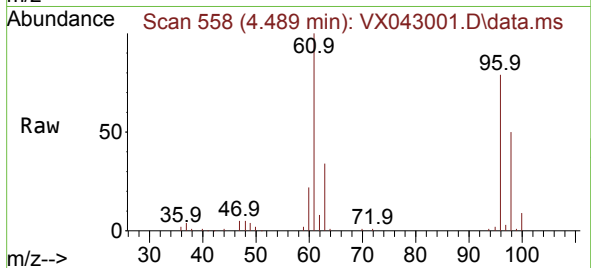
Tgt Ion: 96 Resp: 90357

Ion Ratio Lower Upper

96 100

61 129.5 0.0 312.2

98 63.4 0.0 129.0



#31

Cyclohexane

Concen: 1.426 ug/l

RT: 5.556 min Scan# 733

Delta R.T. 0.085 min

Lab File: VX043001.D

Acq: 09 Aug 2024 17:24

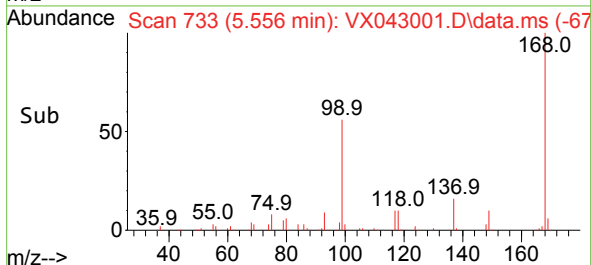
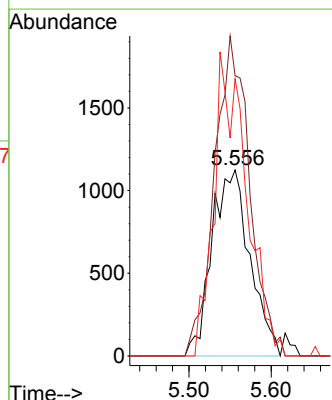
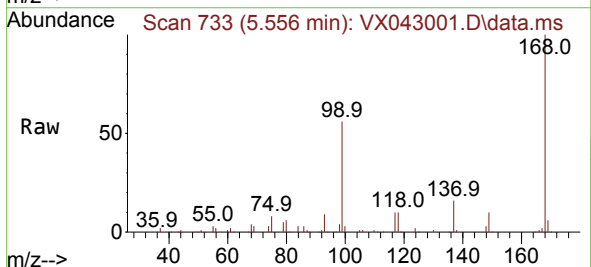
Tgt Ion: 56 Resp: 3624

Ion Ratio Lower Upper

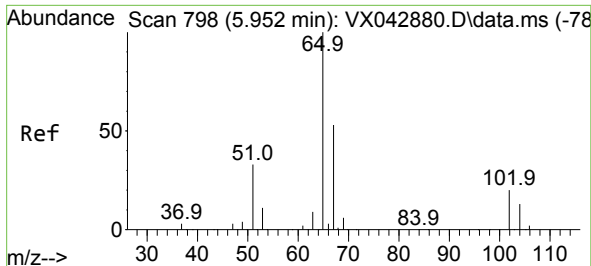
56 100

69 150.8 23.4 35.2#

84 149.1 65.9 98.9#







#33

1,2-Dichloroethane-d4

Concen: 50.807 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX043001.D

Acq: 09 Aug 2024 17:24

Instrument :

MSVOA\_X

ClientSampleId :

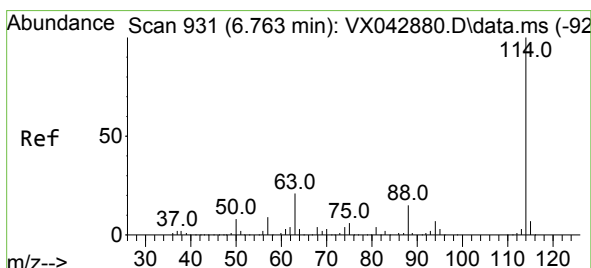
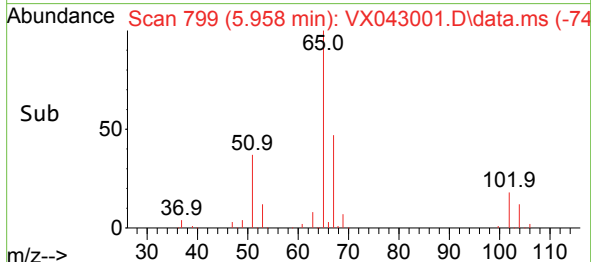
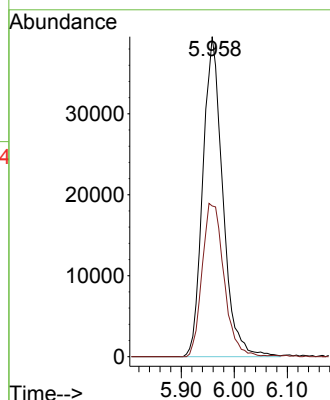
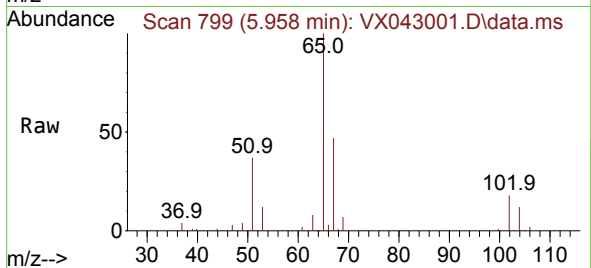
GW-S-864-9-14-073024DL

Tgt Ion: 65 Resp: 103219

Ion Ratio Lower Upper

65 100

67 52.4 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: VX043001.D

Acq: 09 Aug 2024 17:24

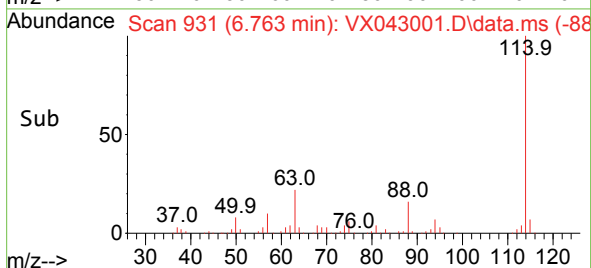
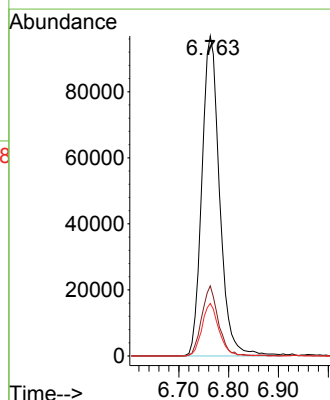
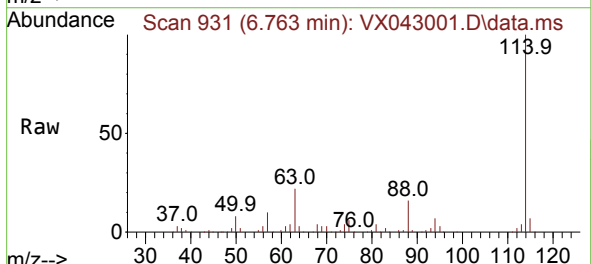
Tgt Ion: 114 Resp: 239439

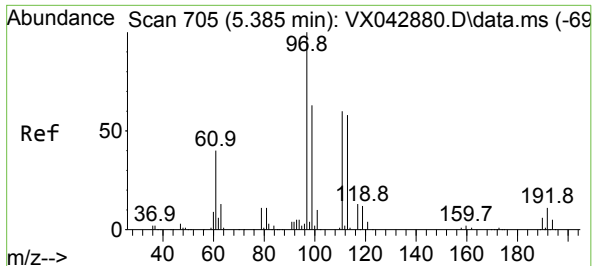
Ion Ratio Lower Upper

114 100

63 21.9 0.0 45.0

88 16.4 0.0 36.6

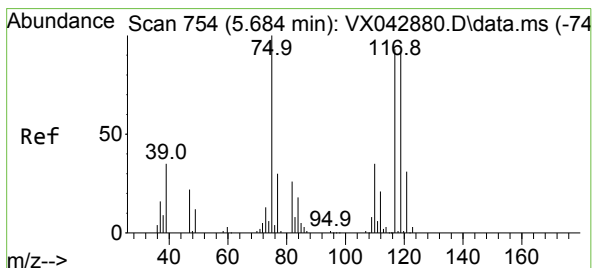
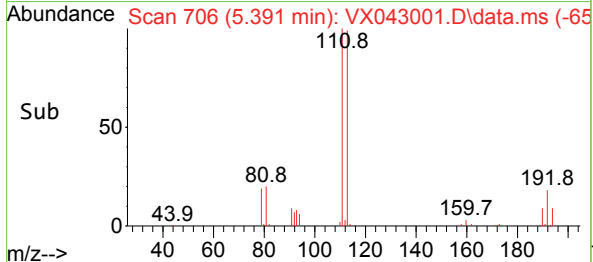
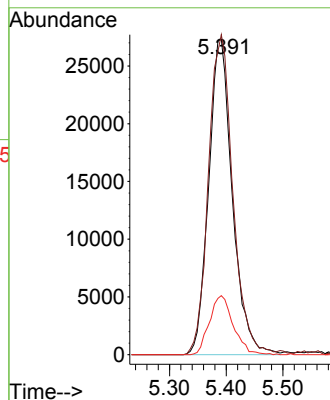
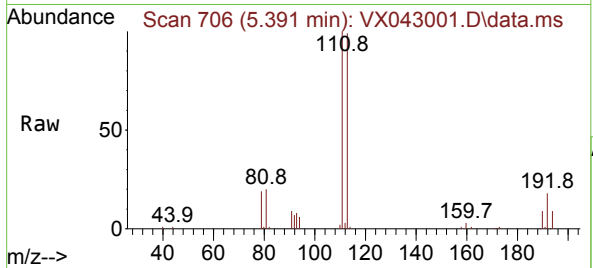




#35  
Dibromofluoromethane  
Concen: 50.651 ug/l  
RT: 5.391 min Scan# 705  
Delta R.T. 0.006 min  
Lab File: VX043001.D  
Acq: 09 Aug 2024 17:24

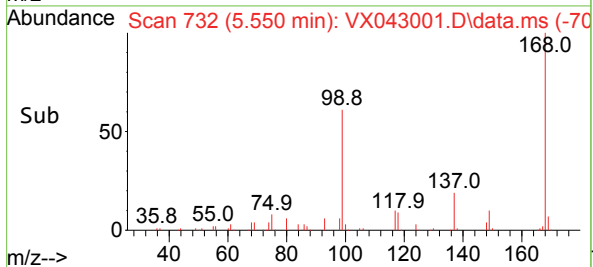
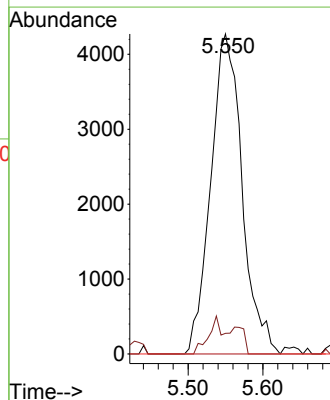
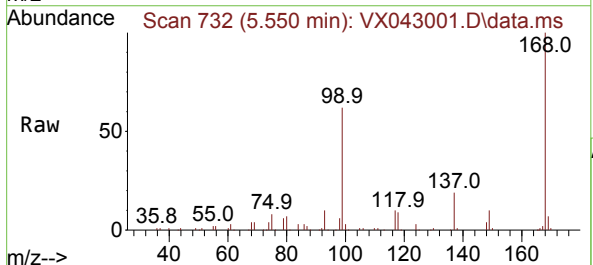
Instrument :  
MSVOA\_X  
ClientSampleId :  
GW-S-864-9-14-073024DL

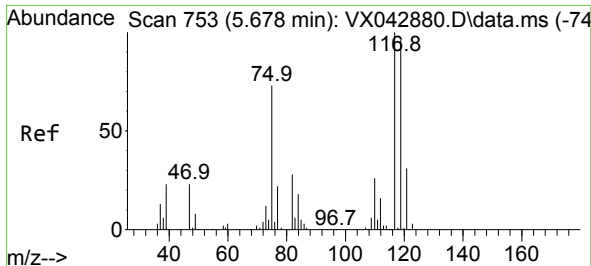
Tgt Ion:113 Resp: 79298  
Ion Ratio Lower Upper  
113 100  
111 104.3 82.9 124.3  
192 18.9 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 5.865 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.134 min  
Lab File: VX043001.D  
Acq: 09 Aug 2024 17:24

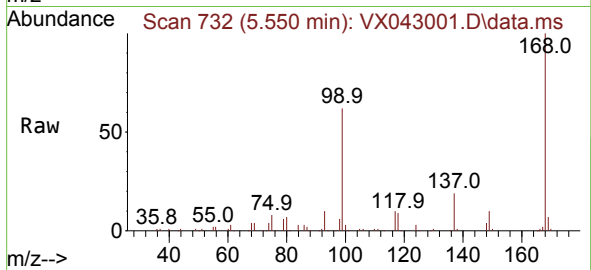
Tgt Ion: 75 Resp: 12450  
Ion Ratio Lower Upper  
75 100  
110 3.9 17.0 50.9#  
77 0.0 24.7 37.1#



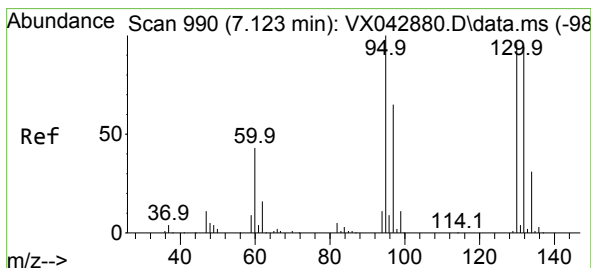
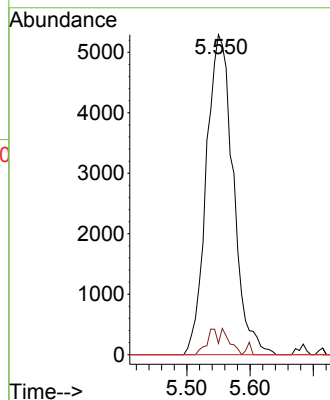
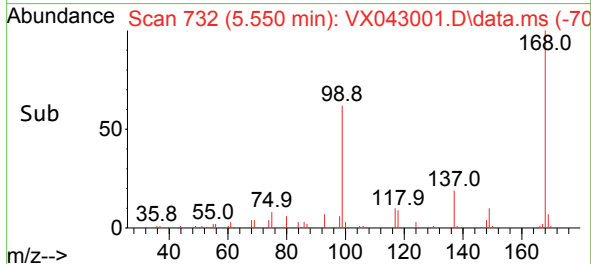


#38  
Carbon Tetrachloride  
Concen: 6.512 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX043001.D  
Acq: 09 Aug 2024 17:24

Instrument :  
MSVOA\_X  
ClientSampleId :  
GW-S-864-9-14-073024DL

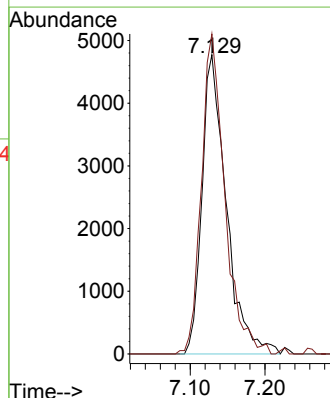
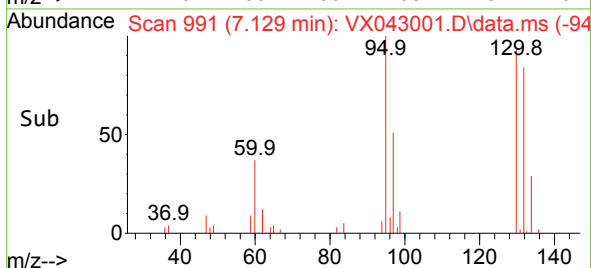
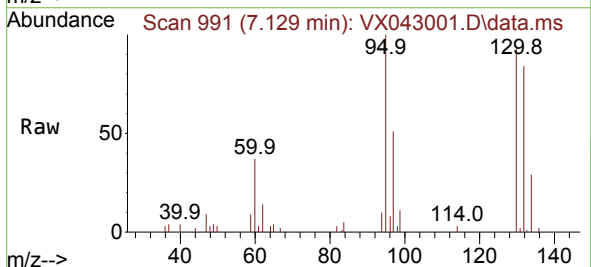


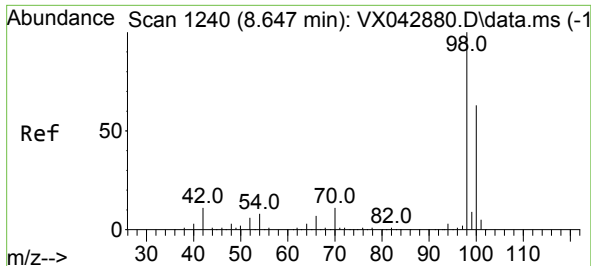
Tgt Ion:117 Resp: 15604  
Ion Ratio Lower Upper  
117 100  
119 3.5 78.2 117.2#  
121 0.0 24.4 36.6#



#44  
Trichloroethene  
Concen: 6.509 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. 0.006 min  
Lab File: VX043001.D  
Acq: 09 Aug 2024 17:24

Tgt Ion:130 Resp: 10774  
Ion Ratio Lower Upper  
130 100  
95 105.9 0.0 204.4

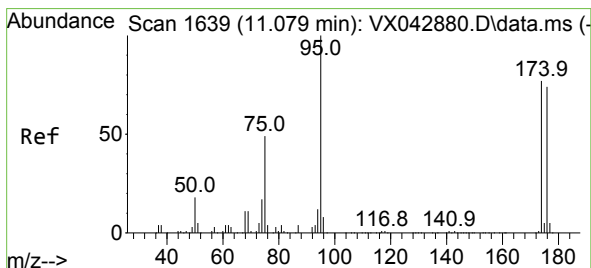
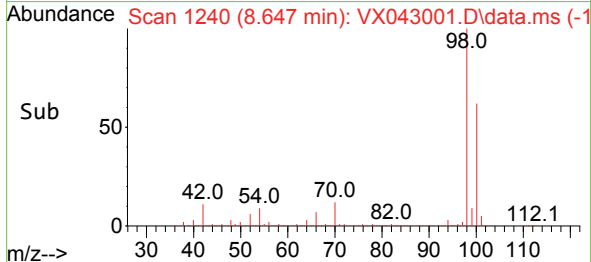
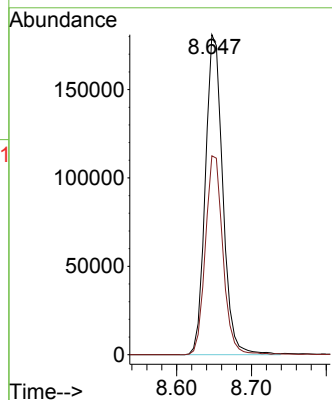
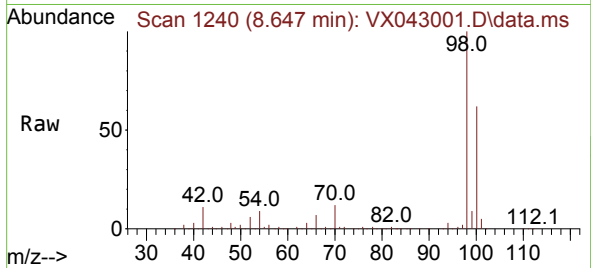




#50  
Toluene-d8  
Concen: 52.691 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX043001.D  
Acq: 09 Aug 2024 17:24

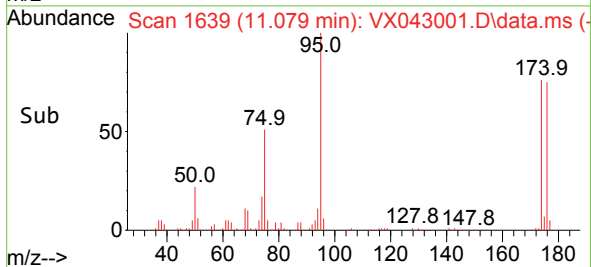
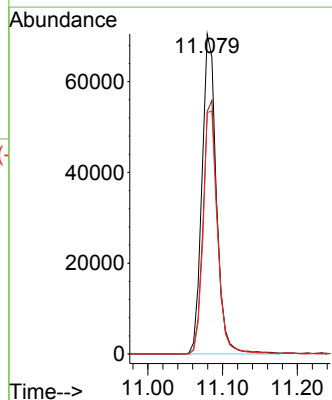
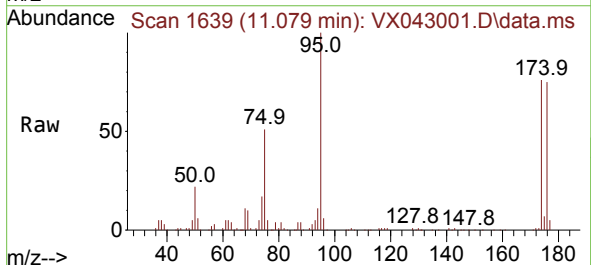
Instrument :  
MSVOA\_X  
ClientSampleId :  
GW-S-864-9-14-073024DL

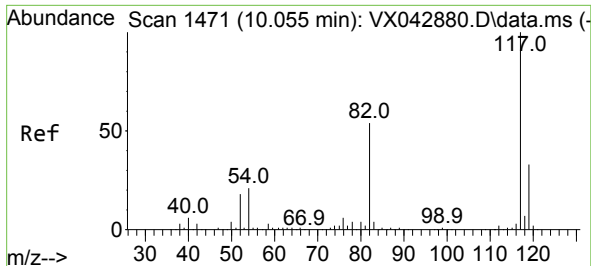
Tgt Ion: 98 Resp: 292845  
Ion Ratio Lower Upper  
98 100  
100 62.5 53.1 79.7



#62  
4-Bromofluorobenzene  
Concen: 47.211 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX043001.D  
Acq: 09 Aug 2024 17:24

Tgt Ion: 95 Resp: 94289  
Ion Ratio Lower Upper  
95 100  
174 79.5 0.0 135.6  
176 76.1 0.0 131.0

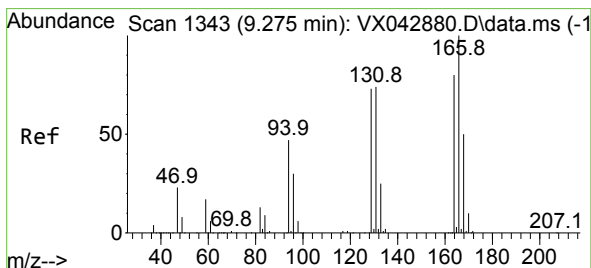
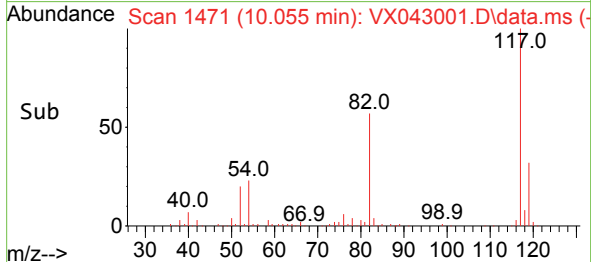
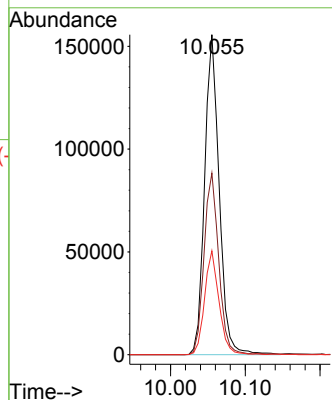
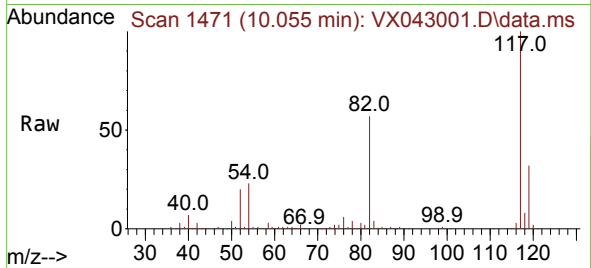




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX043001.D  
Acq: 09 Aug 2024 17:24

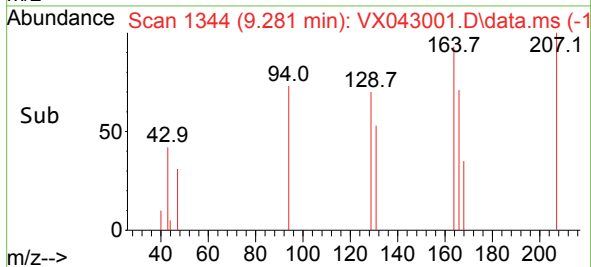
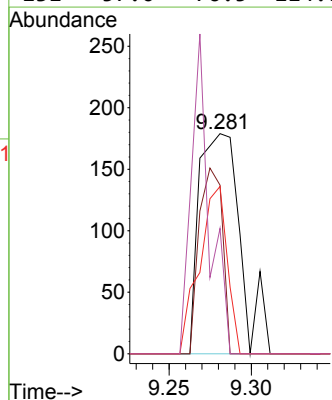
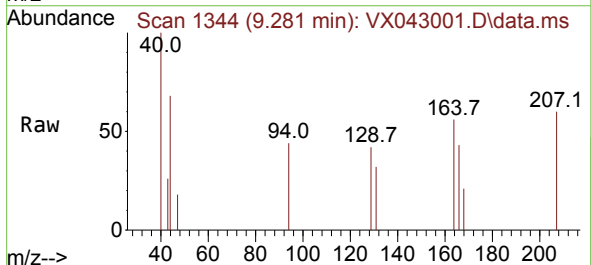
Instrument :  
MSVOA\_X  
ClientSampleId :  
GW-S-864-9-14-073024DL

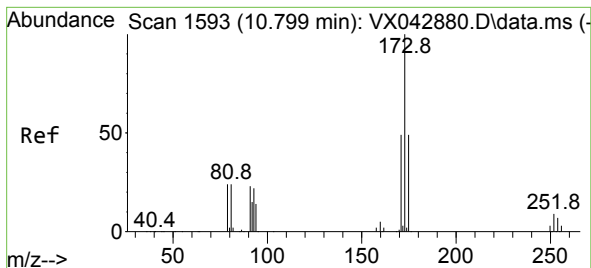
Tgt Ion:117 Resp: 210626  
Ion Ratio Lower Upper  
117 100  
82 56.7 46.2 69.4  
119 32.5 25.5 38.3



#64  
Tetrachloroethene  
Concen: 0.212 ug/l  
RT: 9.281 min Scan# 1344  
Delta R.T. 0.006 min  
Lab File: VX043001.D  
Acq: 09 Aug 2024 17:24

Tgt Ion:164 Resp: 310  
Ion Ratio Lower Upper  
164 100  
166 76.5 102.7 154.1#  
129 76.0 80.4 120.6#  
131 57.0 76.5 114.7#





#71

Bromoform

Concen: 0.860 ug/l

RT: 10.805 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX043001.D

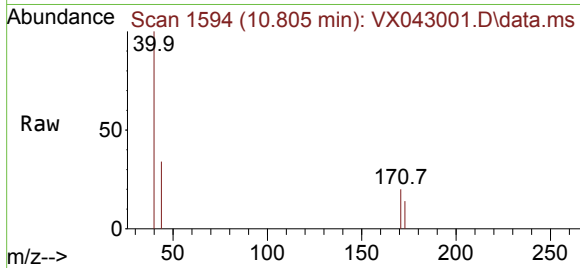
Acq: 09 Aug 2024 17:24

Instrument :

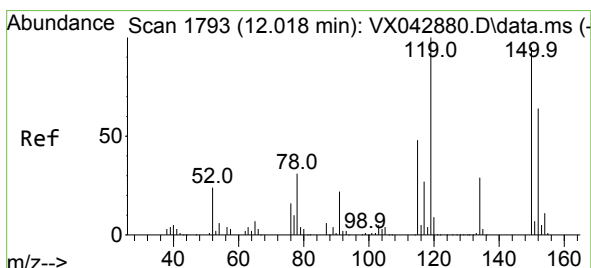
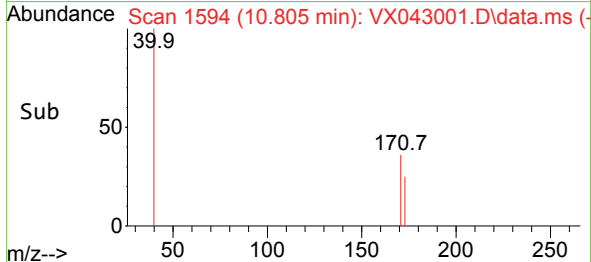
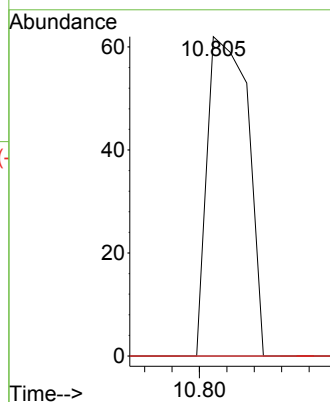
MSVOA\_X

ClientSampleId :

GW-S-864-9-14-073024DL



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 173   | Resp: | 64    |
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 0.0   | 24.1  | 72.4# |
| 254       | 0.0   | 0.0   | 0.0   |



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

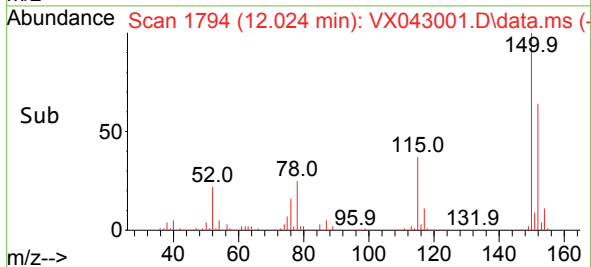
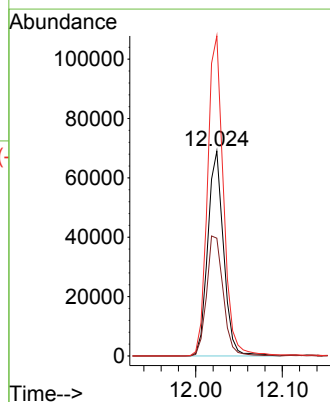
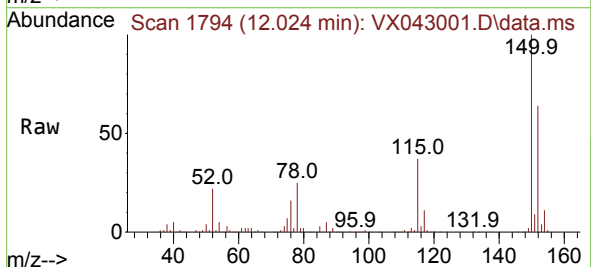
RT: 12.024 min Scan# 1794

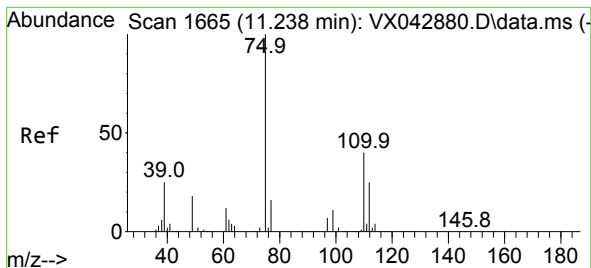
Delta R.T. 0.006 min

Lab File: VX043001.D

Acq: 09 Aug 2024 17:24

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 87830 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 115       | 61.3  | 43.3  | 129.9 |
| 150       | 157.3 | 0.0   | 345.0 |





#76

1,2,3-Trichloropropane

Concen: 24.227 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX043001.D

Acq: 09 Aug 2024 17:24

Instrument :

MSVOA\_X

ClientSampleId :

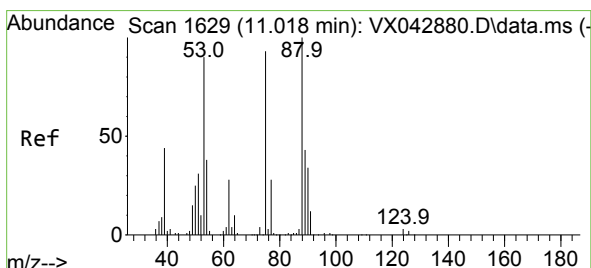
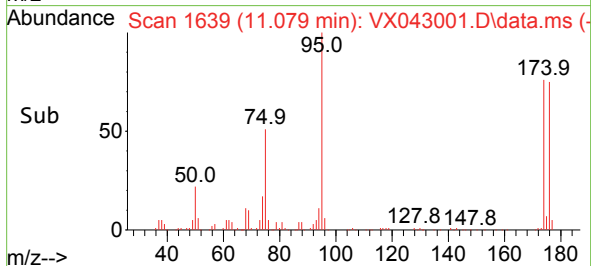
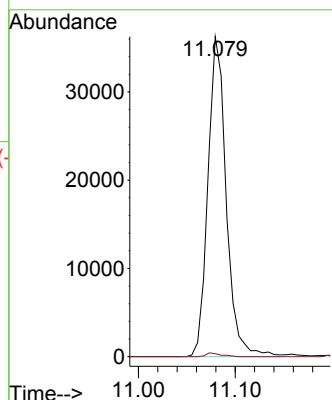
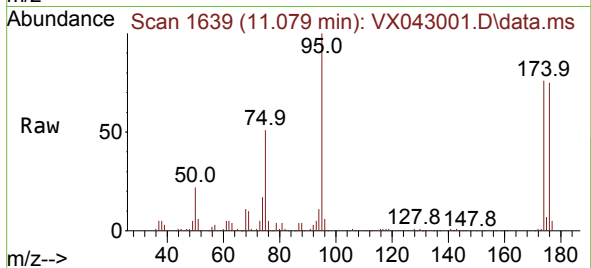
GW-S-864-9-14-073024DL

Tgt Ion: 75 Resp: 47854

Ion Ratio Lower Upper

75 100

77 1.0 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 78.773 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX043001.D

Acq: 09 Aug 2024 17:24

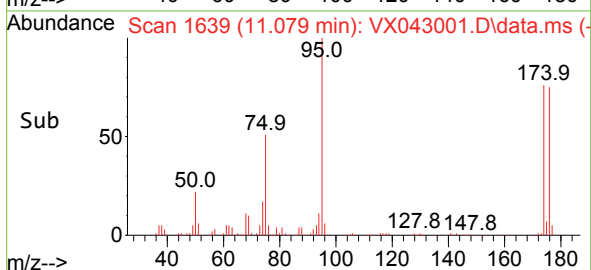
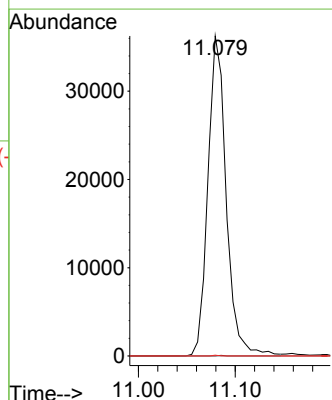
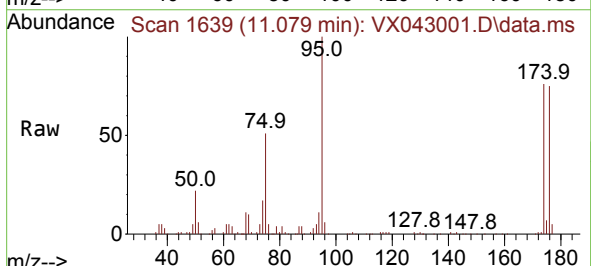
Tgt Ion: 75 Resp: 47854

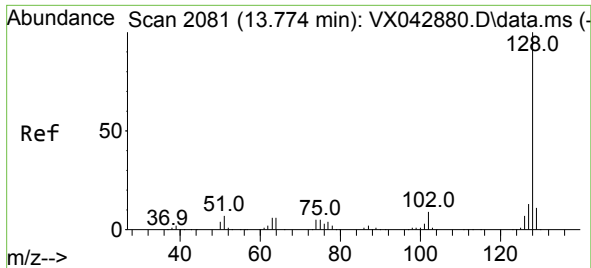
Ion Ratio Lower Upper

75 100

53 0.1 90.5 135.7#

89 0.1 36.9 55.3#





#95

Naphthalene

Concen: 0.201 ug/l

RT: 13.774 min Scan# 20

Delta R.T. 0.000 min

Lab File: VX043001.D

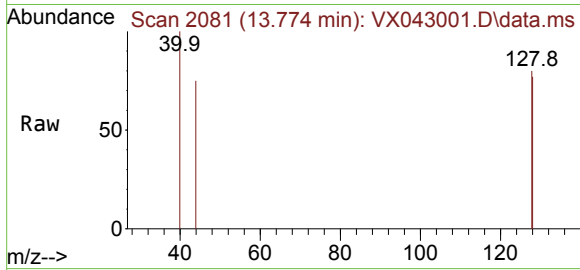
Acq: 09 Aug 2024 17:24

Instrument :

MSVOA\_X

ClientSampleId :

GW-S-864-9-14-073024DL



Tgt Ion:128 Resp: 1243

Ion Ratio Lower Upper

128 100

127 4.1 10.3 15.5#

129 0.0 8.8 13.2#

