

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX080724\  
 Data File : VX042917.D  
 Acq On : 07 Aug 2024 15:48  
 Operator : JC/MD  
 Sample : P3374-02  
 Misc : 8.62g/10.0mL/100uL/5.0mL/MSVOA\_X/MEOH  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S-864-K2-SO-12.75-13.25-072024ME

Quant Time: Aug 08 02:03:07 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

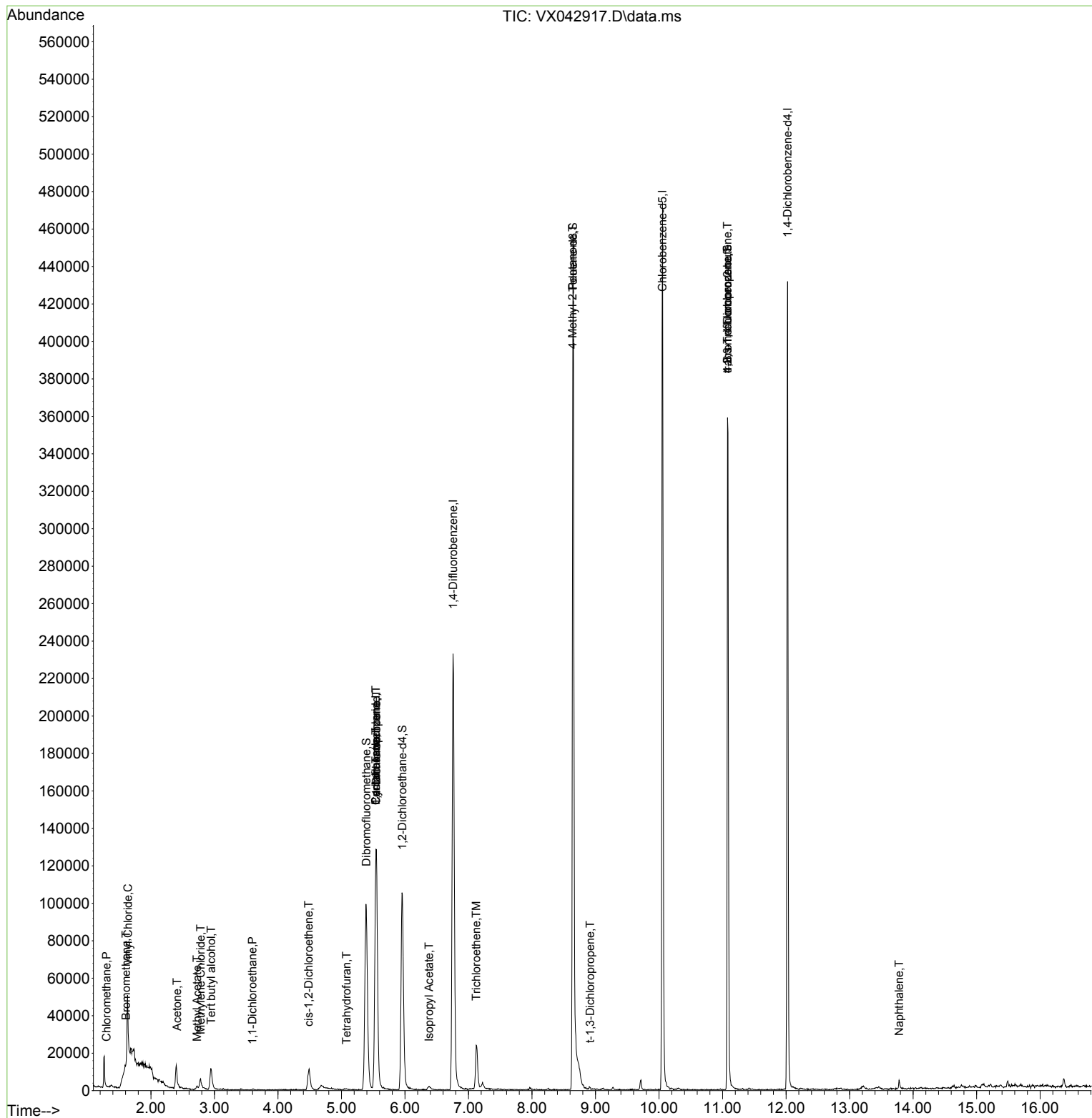
| Compound                      | R.T.   | QIon  | Response | Conc     | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------------|----------|
| -----                         |        |       |          |          |             |          |
| Internal Standards            |        |       |          |          |             |          |
| 1) Pentafluorobenzene         | 5.544  | 168   | 129411   | 50.000   | ug/l        | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 248922   | 50.000   | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 227710   | 50.000   | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 93343    | 50.000   | ug/l        | 0.00     |
| System Monitoring Compounds   |        |       |          |          |             |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 110921   | 62.436   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | = 124.880%# |          |
| 35) Dibromofluoromethane      | 5.391  | 113   | 87532    | 53.781   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 107.560%  |          |
| 50) Toluene-d8                | 8.647  | 98    | 285690   | 49.445   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | = 98.880%   |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 104926   | 50.536   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 101.080%  |          |
| Target Compounds              |        |       |          |          |             |          |
|                               |        |       |          |          |             | Qvalue   |
| 3) Chloromethane              | 1.300  | 50    | 348      | 0.229    | ug/l        | # 43     |
| 4) Vinyl Chloride             | 1.636  | 62    | 379      | 0.263    | ug/l        | # 43     |
| 5) Bromomethane               | 1.605  | 94    | 520      | 0.596    | ug/l        | 90       |
| 11) Tert butyl alcohol        | 2.946  | 59    | 7670     | 21.705   | ug/l        | # 80     |
| 16) Acetone                   | 2.410  | 43    | 596      | 0.773    | ug/l        | # 78     |
| 18) Methyl Acetate            | 2.727  | 43    | 3213     | 1.315    | ug/l        | 93       |
| 20) Methylene Chloride        | 2.782  | 84    | 3389     | 1.220    | ug/l        | # 81     |
| 24) 1,1-Dichloroethane        | 3.599  | 63    | 554      | 0.203    | ug/l        | # 83     |
| 27) cis-1,2-Dichloroethene    | 4.483  | 96    | 7576     | 4.452    | ug/l        | 81       |
| 29) Tetrahydrofuran           | 5.080  | 42    | 461      | 0.564    | ug/l        | # 53     |
| 31) Cyclohexane               | 5.544  | 56    | 2660     | 1.197    | ug/l        | # 1      |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 10328    | 4.680    | ug/l        | # 50     |
| 38) Carbon Tetrachloride      | 5.544  | 117   | 13514    | 5.425    | ug/l        | # 15     |
| 43) Isopropyl Acetate         | 6.379  | 43    | 1138     | 0.279    | ug/l        | # 62     |
| 44) Trichloroethene           | 7.123  | 130   | 8991     | 5.225    | ug/l        | 98       |
| 51) 4-Methyl-2-Pentanone      | 8.641  | 43    | 1393     | 0.509    | ug/l        | # 1      |
| 53) t-1,3-Dichloropropene     | 8.915  | 75    | 620      | 0.283    | ug/l        | # 43     |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 52138    | 24.836   | ug/l        | # 39     |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 52138    | 80.756   | ug/l        | # 5      |
| 95) Naphthalene               | 13.780 | 128   | 4323     | 0.658    | ug/l        | # 94     |
| -----                         |        |       |          |          |             |          |

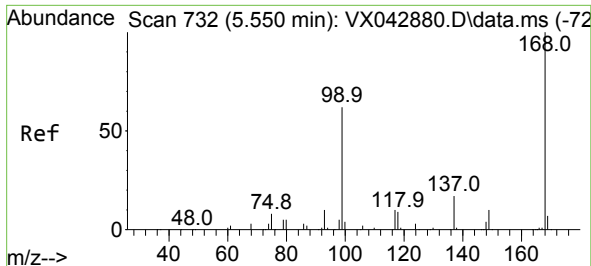
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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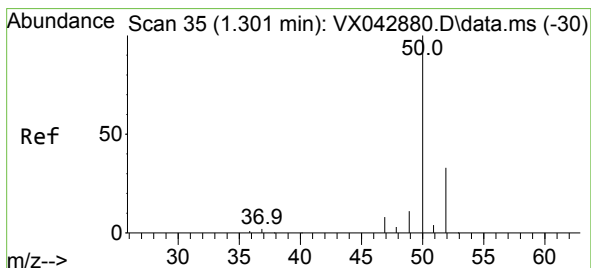
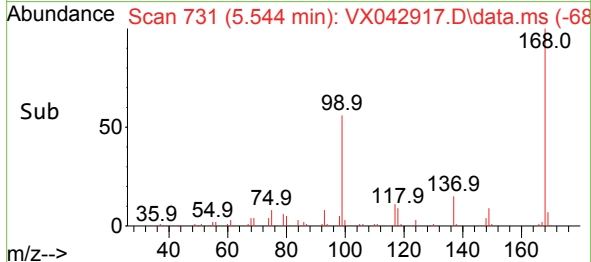
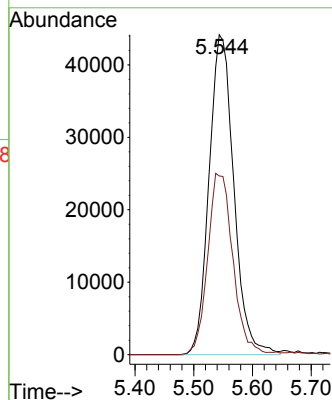
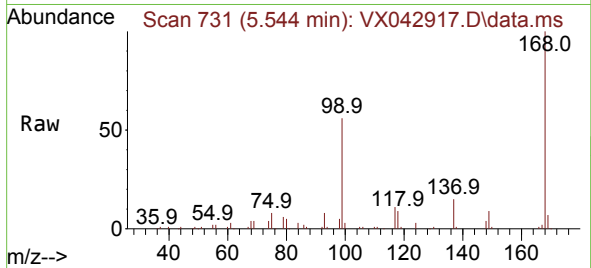




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX042917.D  
Acq: 07 Aug 2024 15:48

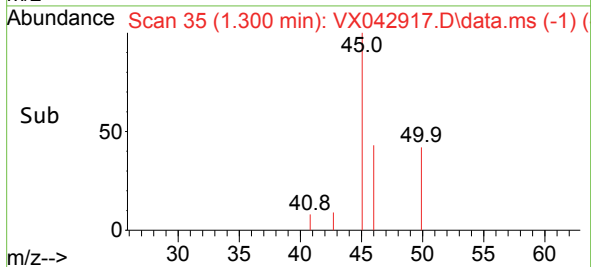
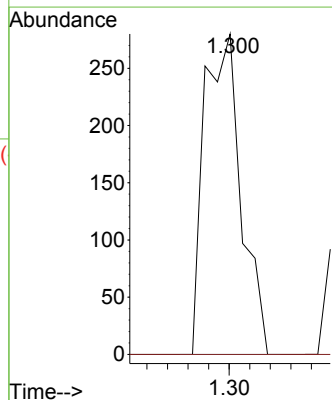
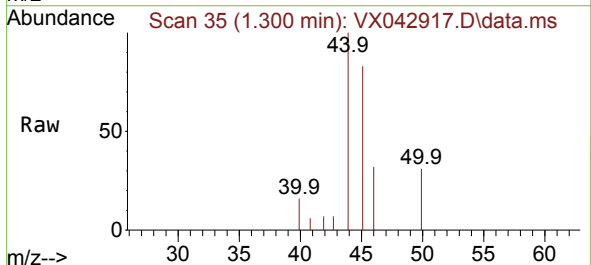
Instrument :  
MSVOA\_X  
ClientSampleId :  
S-864-K2-SO-12.75-13.25-072024ME

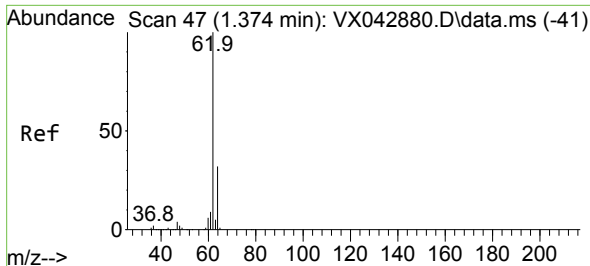
Tgt Ion:168 Resp: 129411  
Ion Ratio Lower Upper  
168 100  
99 55.9 56.6 85.0#



#3  
Chloromethane  
Concen: 0.229 ug/l  
RT: 1.300 min Scan# 35  
Delta R.T. -0.000 min  
Lab File: VX042917.D  
Acq: 07 Aug 2024 15:48

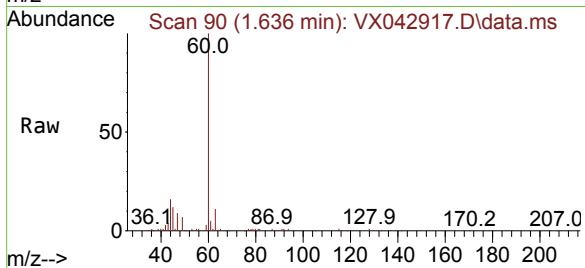
Tgt Ion: 50 Resp: 348  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.5 38.3#



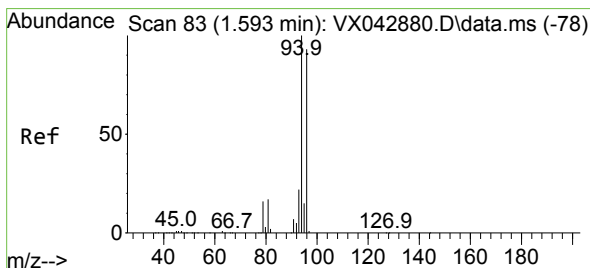
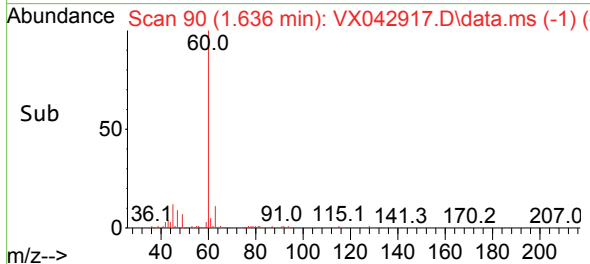
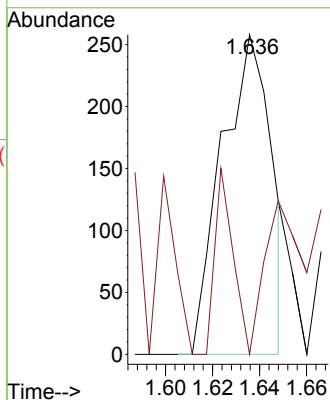


#4  
 Vinyl Chloride  
 Concen: 0.263 ug/l  
 RT: 1.636 min Scan# 90  
 Delta R.T. 0.262 min  
 Lab File: VX042917.D  
 Acq: 07 Aug 2024 15:48

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S-864-K2-SO-12.75-13.25-072024ME

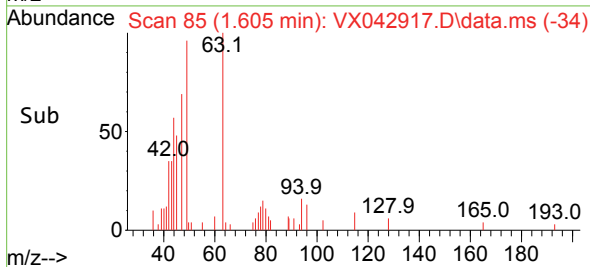
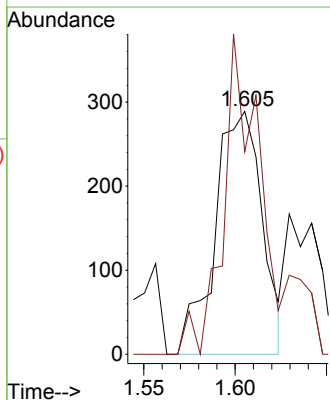
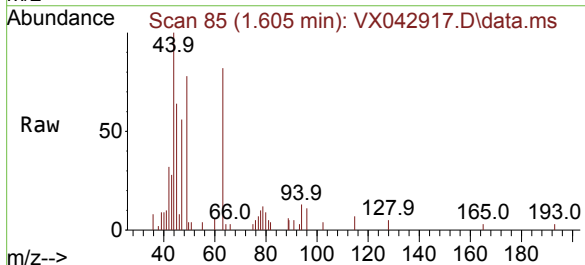


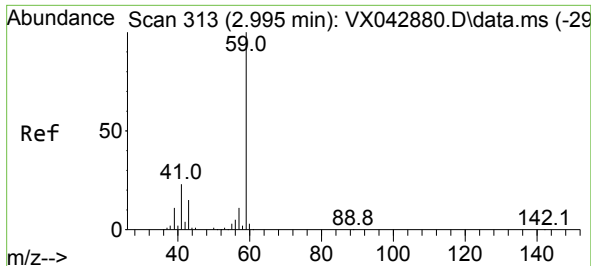
Tgt Ion: 62 Resp: 379  
 Ion Ratio Lower Upper  
 62 100  
 64 0.0 25.4 38.0#



#5  
 Bromomethane  
 Concen: 0.596 ug/l  
 RT: 1.605 min Scan# 85  
 Delta R.T. 0.012 min  
 Lab File: VX042917.D  
 Acq: 07 Aug 2024 15:48

Tgt Ion: 94 Resp: 520  
 Ion Ratio Lower Upper  
 94 100  
 96 83.4 74.6 111.8





#11

Tert butyl alcohol

Concen: 21.705 ug/l

RT: 2.946 min Scan# 305

Delta R.T. -0.049 min

Lab File: VX042917.D

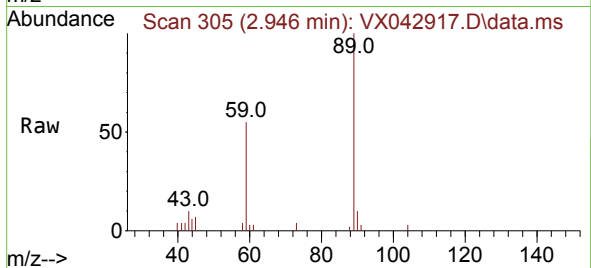
Acq: 07 Aug 2024 15:48

Instrument :

MSVOA\_X

ClientSampleId :

S-864-K2-SO-12.75-13.25-072024ME

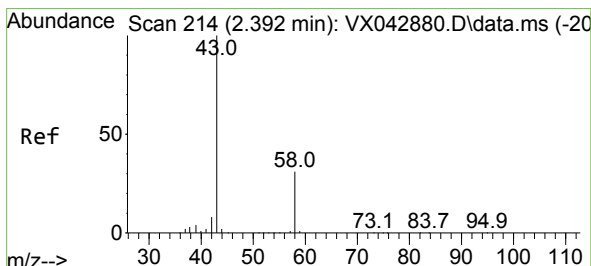
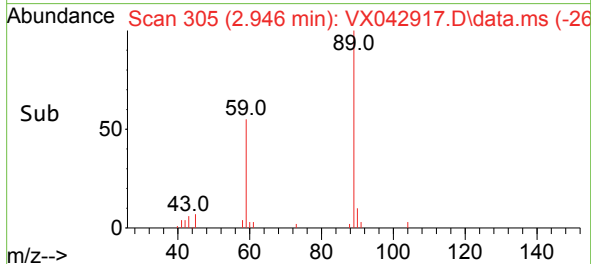
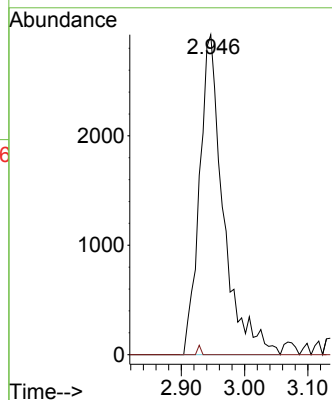


Tgt Ion: 59 Resp: 7670

Ion Ratio Lower Upper

59 100

57 0.4 6.0 9.0#



#16

Acetone

Concen: 0.773 ug/l

RT: 2.410 min Scan# 217

Delta R.T. 0.018 min

Lab File: VX042917.D

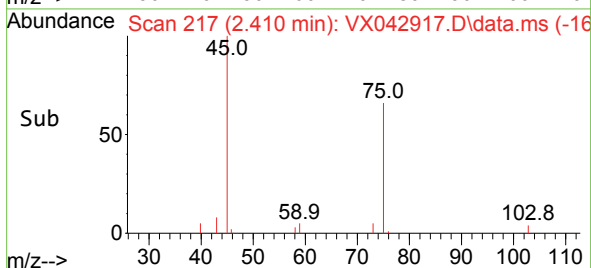
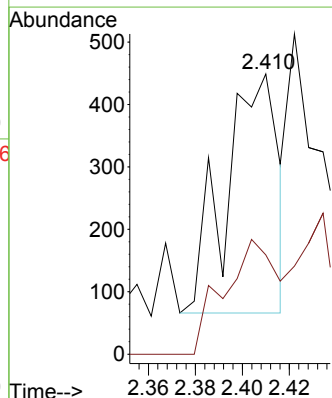
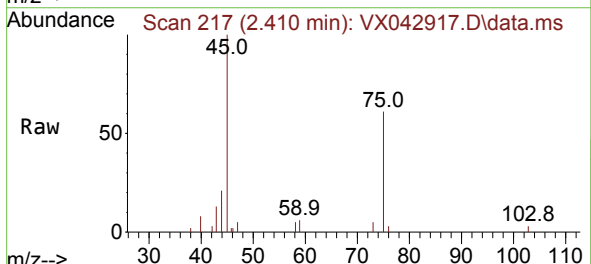
Acq: 07 Aug 2024 15:48

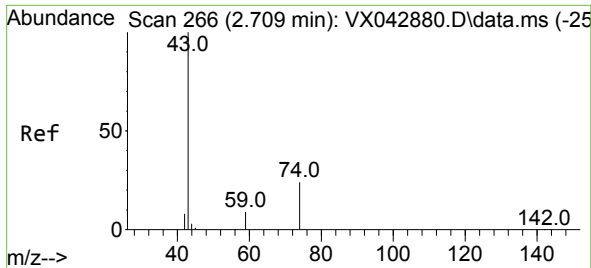
Tgt Ion: 43 Resp: 596

Ion Ratio Lower Upper

43 100

58 16.2 21.9 32.9#

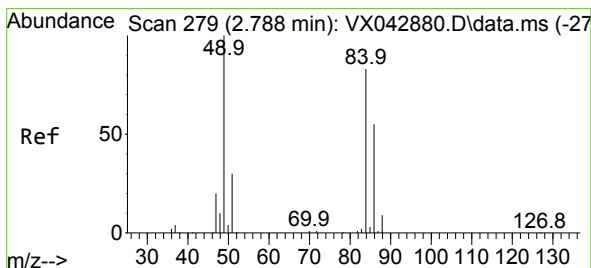
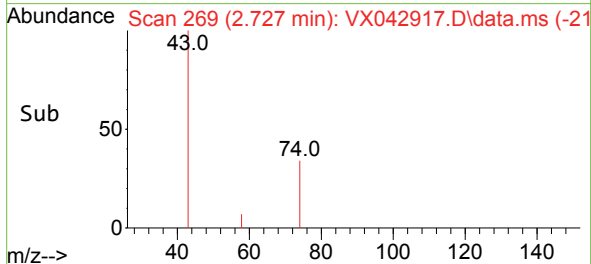
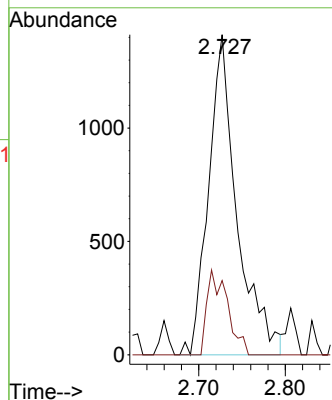
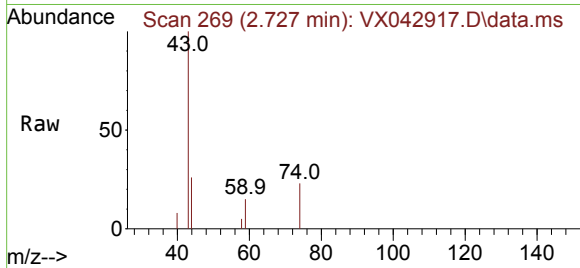




#18  
Methyl Acetate  
Concen: 1.315 ug/l  
RT: 2.727 min Scan# 20  
Delta R.T. 0.018 min  
Lab File: VX042917.D  
Acq: 07 Aug 2024 15:48

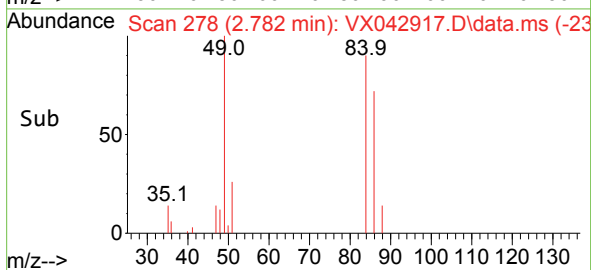
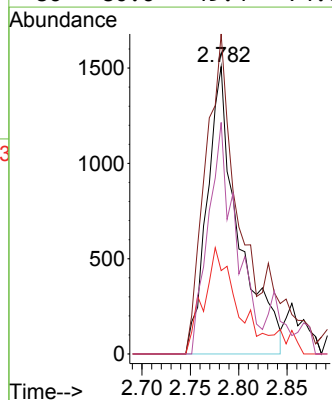
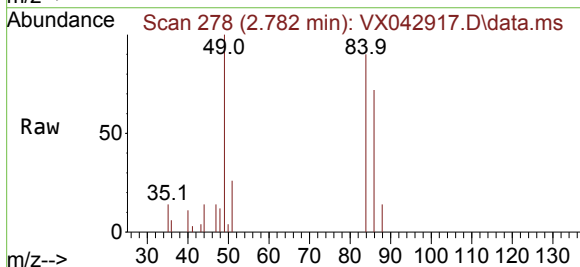
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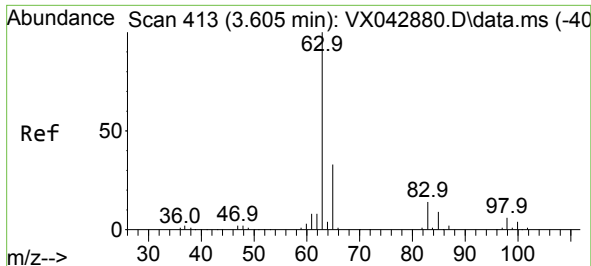
Tgt Ion: 43 Resp: 3213  
Ion Ratio Lower Upper  
43 100  
74 19.2 17.8 26.8



#20  
Methylene Chloride  
Concen: 1.220 ug/l  
RT: 2.782 min Scan# 278  
Delta R.T. -0.006 min  
Lab File: VX042917.D  
Acq: 07 Aug 2024 15:48

Tgt Ion: 84 Resp: 3389  
Ion Ratio Lower Upper  
84 100  
49 111.3 103.6 155.4  
51 29.0 33.8 50.6#  
86 80.6 49.4 74.0#

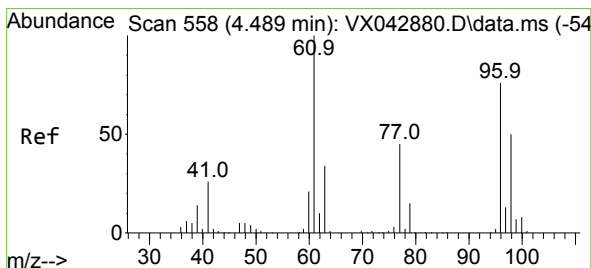
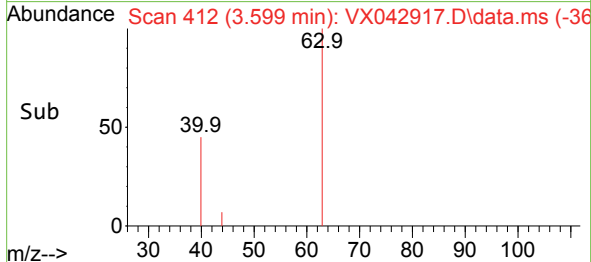
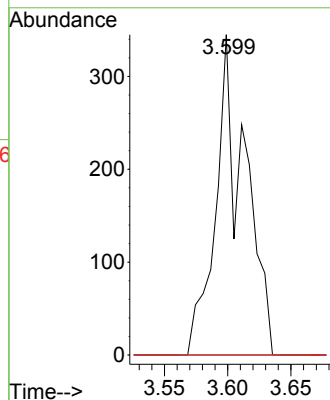
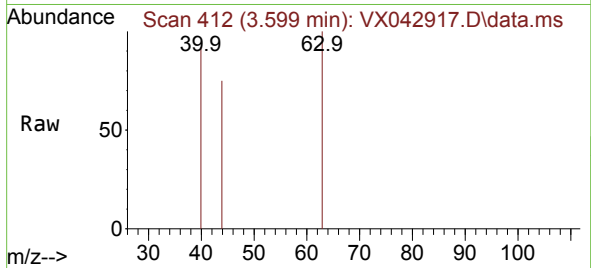




#24  
1,1-Dichloroethane  
Concen: 0.203 ug/l  
RT: 3.599 min Scan# 413  
Delta R.T. -0.006 min  
Lab File: VX042917.D  
Acq: 07 Aug 2024 15:48

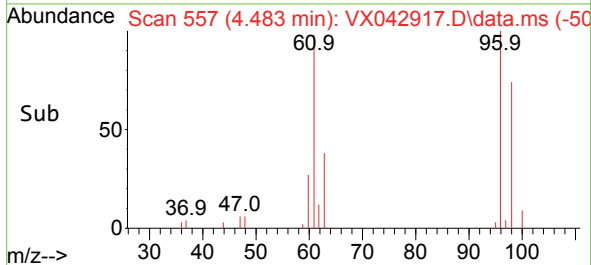
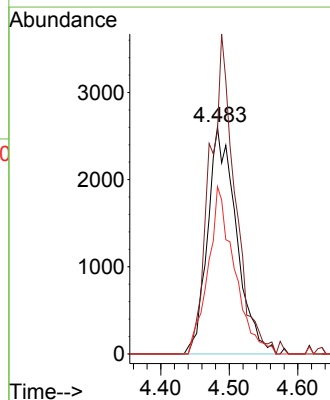
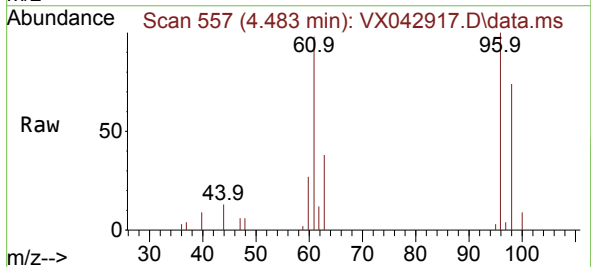
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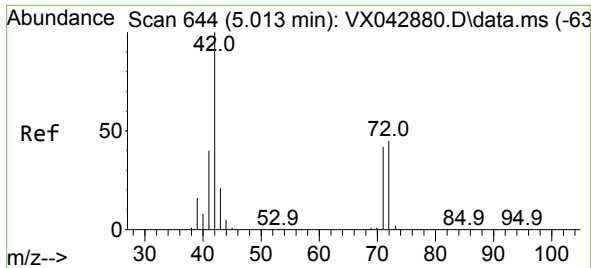
Tgt Ion: 63 Resp: 554  
Ion Ratio Lower Upper  
63 100  
98 0.0 3.3 9.8#  
100 0.0 2.1 6.5#



#27  
cis-1,2-Dichloroethene  
Concen: 4.452 ug/l  
RT: 4.483 min Scan# 557  
Delta R.T. -0.006 min  
Lab File: VX042917.D  
Acq: 07 Aug 2024 15:48

Tgt Ion: 96 Resp: 7576  
Ion Ratio Lower Upper  
96 100  
61 123.6 0.0 312.2  
98 67.8 0.0 129.0





#29

Tetrahydrofuran

Concen: 0.564 ug/l

RT: 5.080 min Scan# 61

Delta R.T. 0.067 min

Lab File: VX042917.D

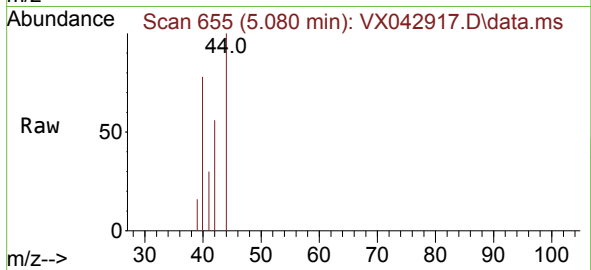
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Instrument :

MSVOA\_X

ClientSampleId :

S-864-K2-SO-12.75-13.25-072024ME



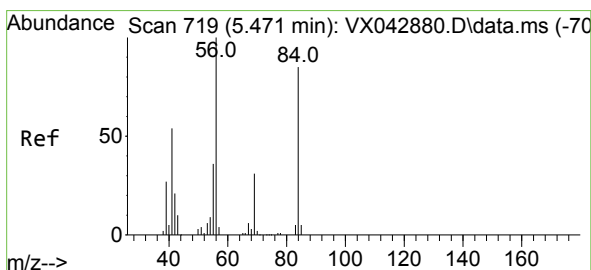
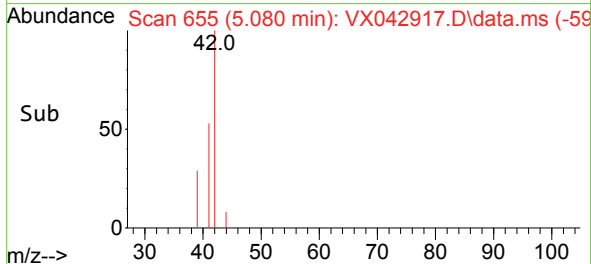
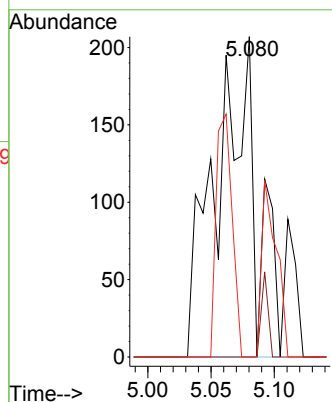
Tgt Ion: 42 Resp: 461

Ion Ratio Lower Upper

42 100

72 4.3 34.2 51.4#

71 20.2 32.2 48.2#



#31

Cyclohexane

Concen: 1.197 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.073 min

Lab File: VX042917.D

Acq: 07 Aug 2024 15:48

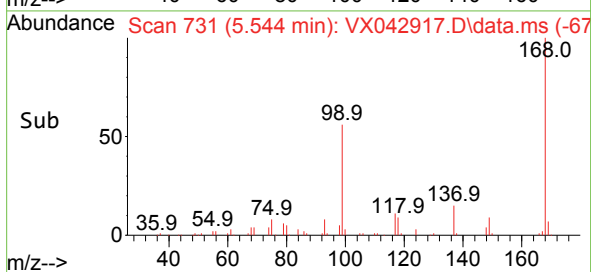
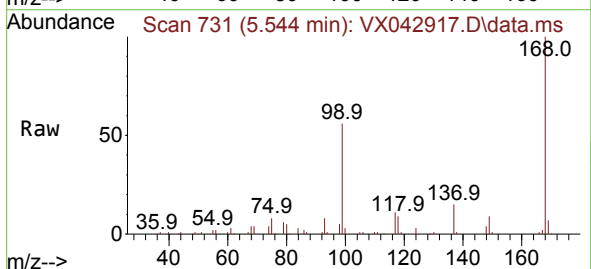
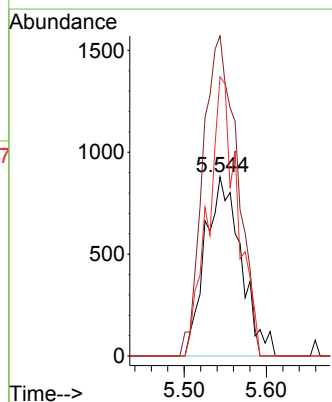
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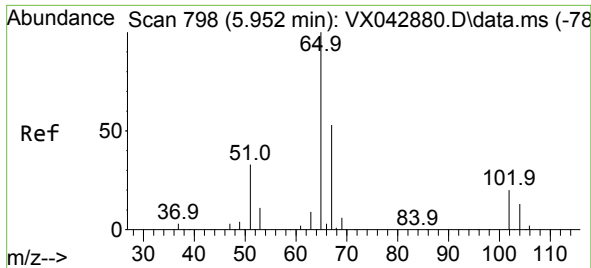
Ion Ratio Lower Upper

56 100

69 178.7 23.4 35.2#

84 156.0 65.9 98.9#

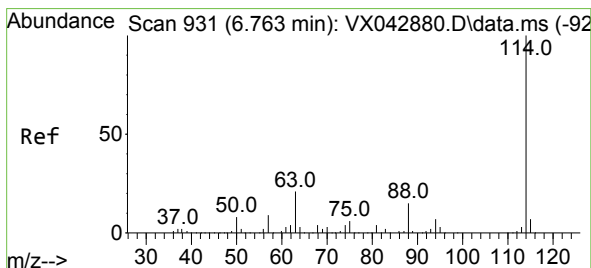
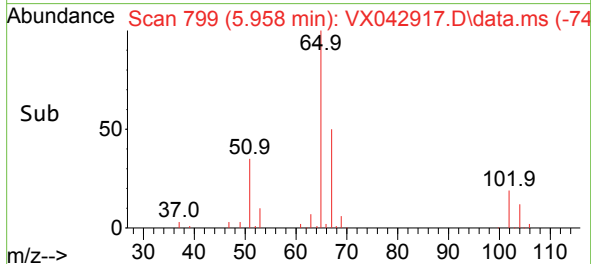
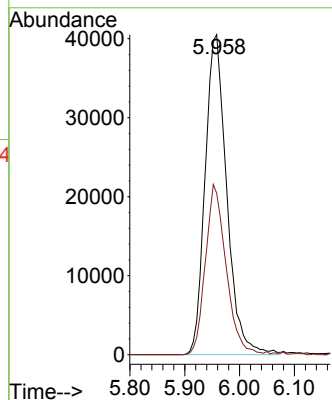
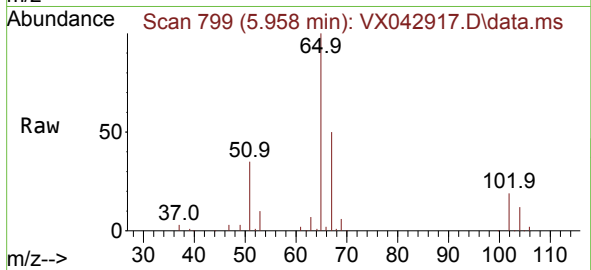




#33  
1,2-Dichloroethane-d4  
Concen: 62.436 ug/l  
RT: 5.958 min Scan# 79  
Delta R.T. 0.006 min  
Lab File: VX042917.D  
Acq: 07 Aug 2024 15:48

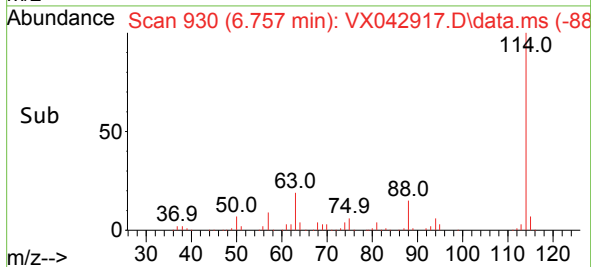
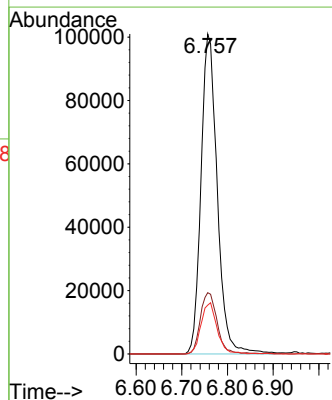
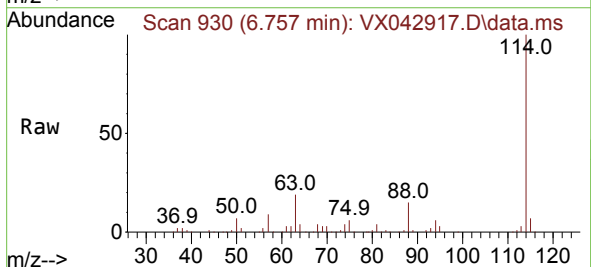
Instrument :  
MSVOA\_X  
ClientSampleId :  
S-864-K2-SO-12.75-13.25-072024ME

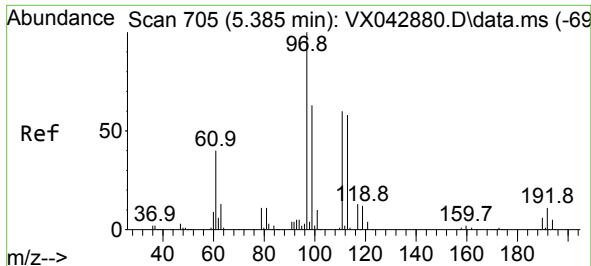
Tgt Ion: 65 Resp: 110921  
Ion Ratio Lower Upper  
65 100  
67 50.9 0.0 100.2



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 930  
Delta R.T. -0.006 min  
Lab File: VX042917.D  
Acq: 07 Aug 2024 15:48

Tgt Ion: 114 Resp: 248922  
Ion Ratio Lower Upper  
114 100  
63 19.1 0.0 45.0  
88 15.2 0.0 36.6

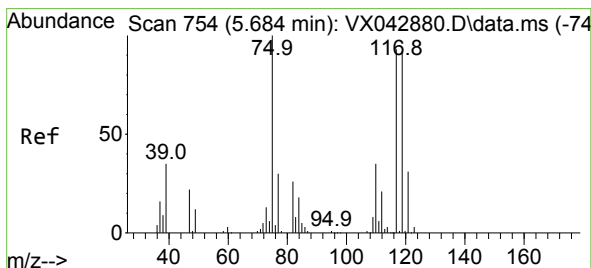
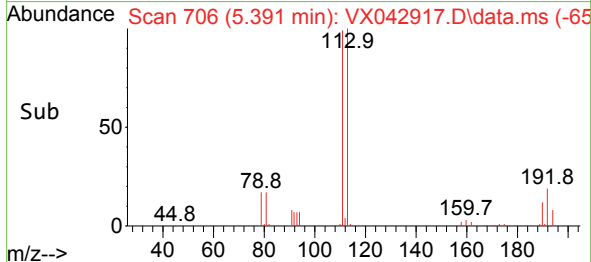
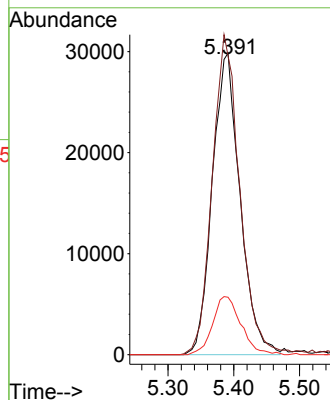
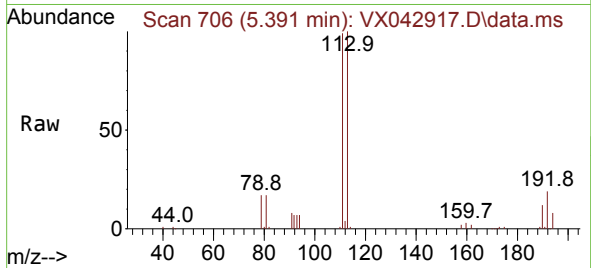




#35  
Dibromofluoromethane  
Concen: 53.781 ug/l  
RT: 5.391 min Scan# 705  
Delta R.T. 0.006 min  
Lab File: VX042917.D  
Acq: 07 Aug 2024 15:48

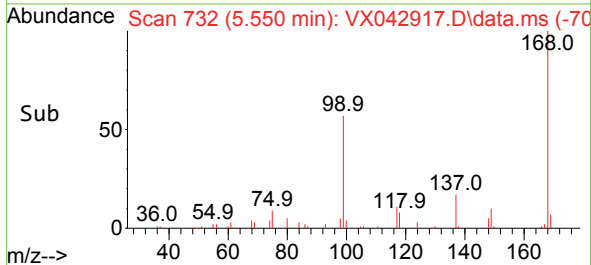
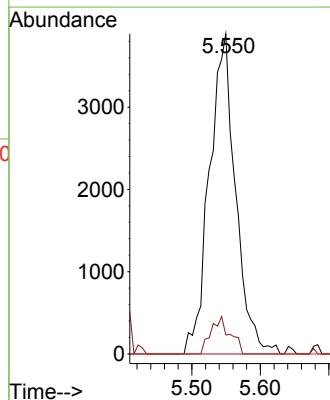
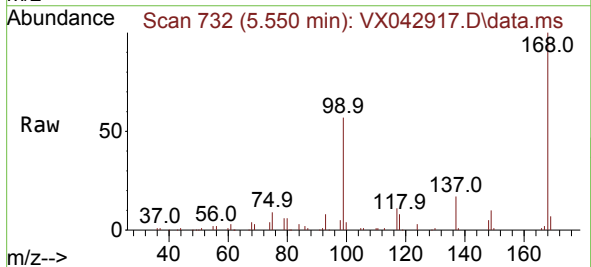
Instrument :  
MSVOA\_X  
ClientSampleId :  
S-864-K2-SO-12.75-13.25-072024ME

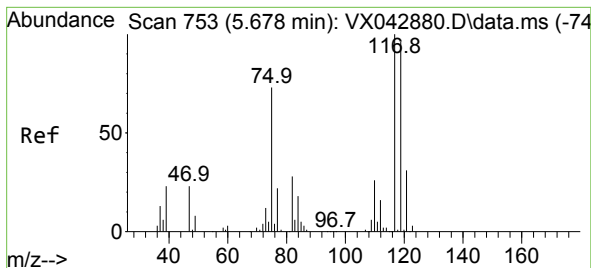
Tgt Ion:113 Resp: 87532  
Ion Ratio Lower Upper  
113 100  
111 105.1 82.9 124.3  
192 19.7 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 4.680 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.134 min  
Lab File: VX042917.D  
Acq: 07 Aug 2024 15:48

Tgt Ion: 75 Resp: 10328  
Ion Ratio Lower Upper  
75 100  
110 8.5 17.0 50.9#  
77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 5.425 ug/l

RT: 5.544 min Scan# 71

Delta R.T. -0.134 min

Lab File: VX042917.D

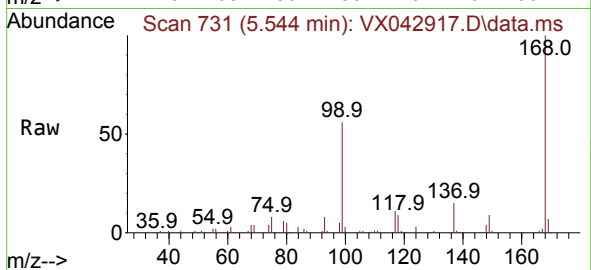
Acq: 07 Aug 2024 15:48

Instrument :

MSVOA\_X

ClientSampleId :

S-864-K2-SO-12.75-13.25-072024ME



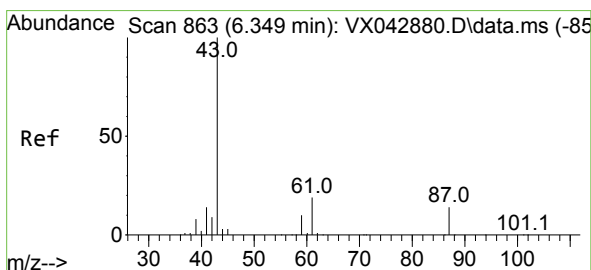
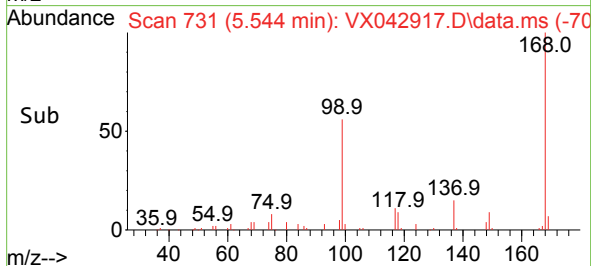
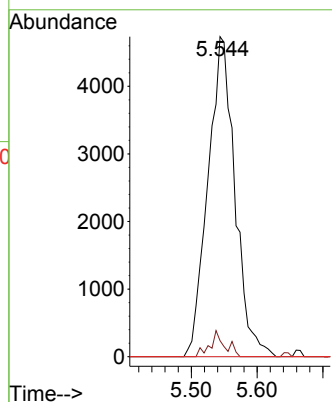
Tgt Ion:117 Resp: 13514

Ion Ratio Lower Upper

117 100

119 5.0 78.2 117.2#

121 0.0 24.4 36.6#



#43

Isopropyl Acetate

Concen: 0.279 ug/l

RT: 6.379 min Scan# 868

Delta R.T. 0.030 min

Lab File: VX042917.D

Acq: 07 Aug 2024 15:48

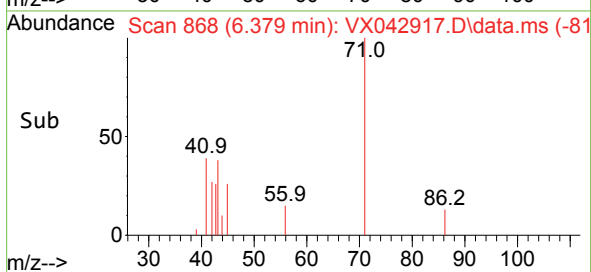
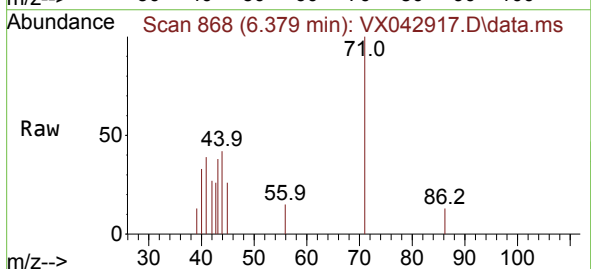
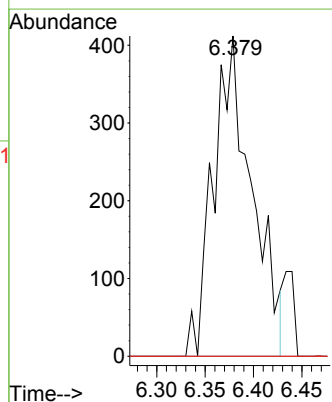
Tgt Ion: 43 Resp: 1138

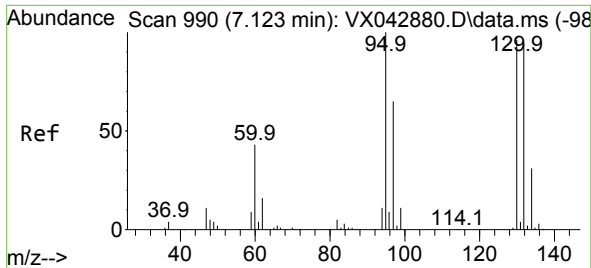
Ion Ratio Lower Upper

43 100

61 0.0 15.2 22.8#

87 0.0 9.8 14.6#

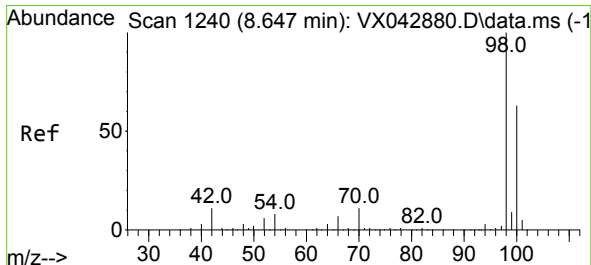
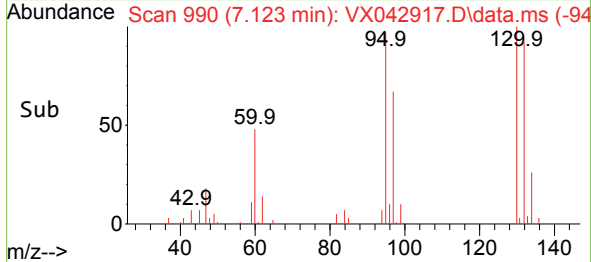
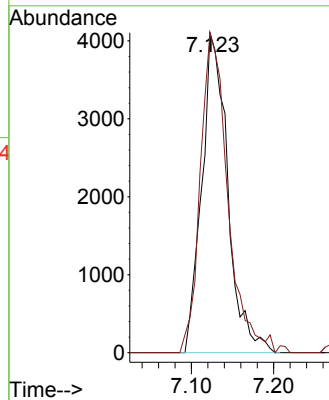
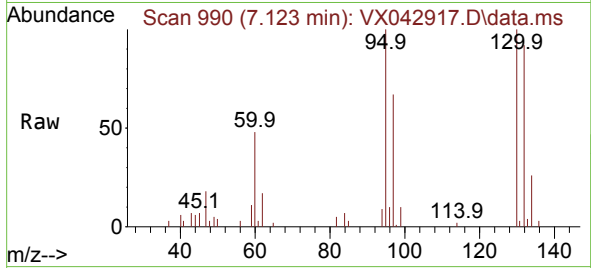




#44  
Trichloroethene  
Concen: 5.225 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. -0.000 min  
Lab File: VX042917.D  
Acq: 07 Aug 2024 15:48

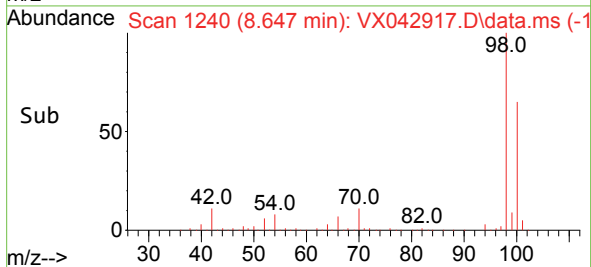
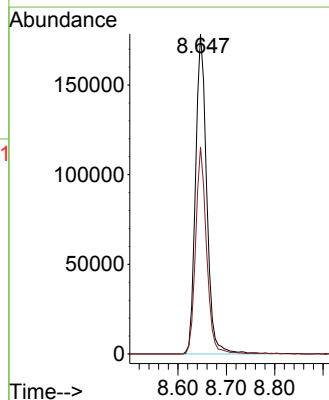
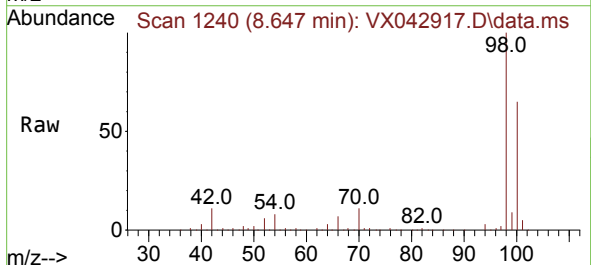
Instrument :  
MSVOA\_X  
ClientSampleId :  
S-864-K2-SO-12.75-13.25-072024ME

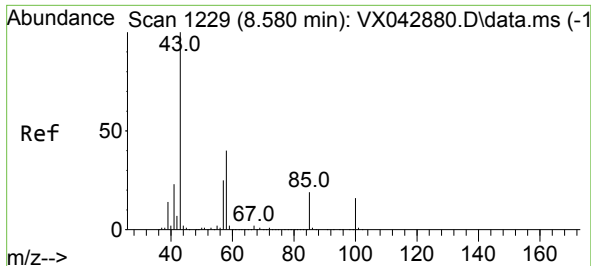
Tgt Ion:130 Resp: 8991  
Ion Ratio Lower Upper  
130 100  
95 99.9 0.0 204.4



#50  
Toluene-d8  
Concen: 49.445 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.000 min  
Lab File: VX042917.D  
Acq: 07 Aug 2024 15:48

Tgt Ion: 98 Resp: 285690  
Ion Ratio Lower Upper  
98 100  
100 63.0 53.1 79.7

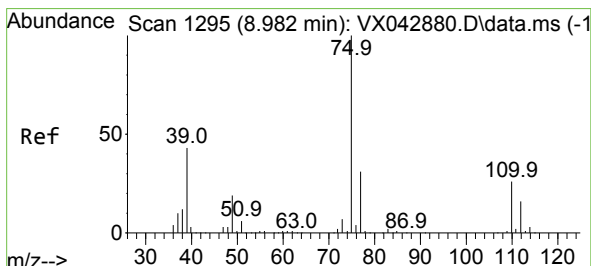
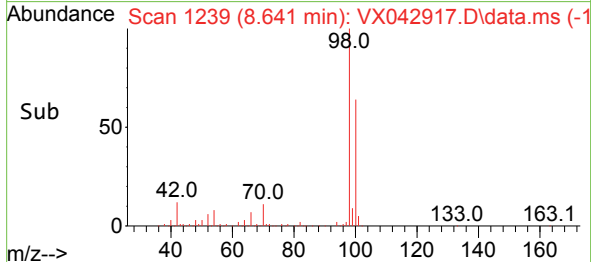
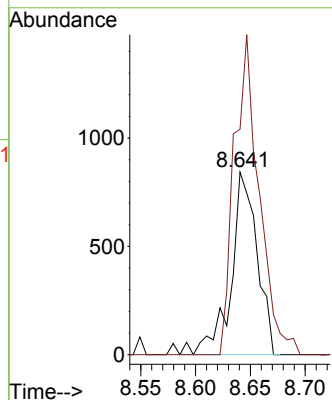
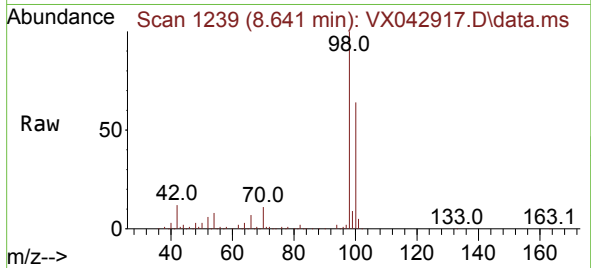




#51  
4-Methyl-2-Pentanone  
Concen: 0.509 ug/l  
RT: 8.641 min Scan# 11  
Delta R.T. 0.061 min  
Lab File: VX042917.D  
Acq: 07 Aug 2024 15:48

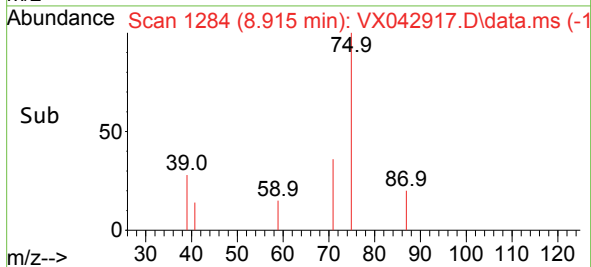
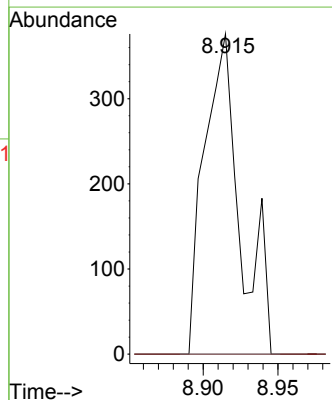
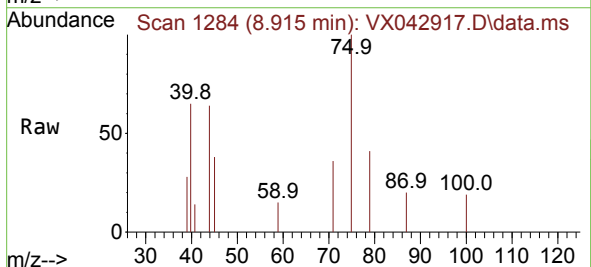
Instrument :  
MSVOA\_X  
ClientSampleId :  
S-864-K2-SO-12.75-13.25-072024ME

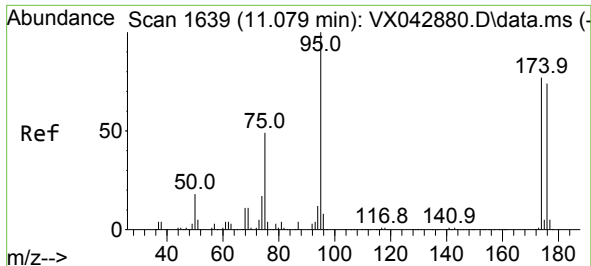
Tgt Ion: 43 Resp: 1393  
Ion Ratio Lower Upper  
43 100  
58 167.3 30.4 45.6#



#53  
t-1,3-Dichloropropene  
Concen: 0.283 ug/l  
RT: 8.915 min Scan# 1284  
Delta R.T. -0.067 min  
Lab File: VX042917.D  
Acq: 07 Aug 2024 15:48

Tgt Ion: 75 Resp: 620  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.7 38.5#

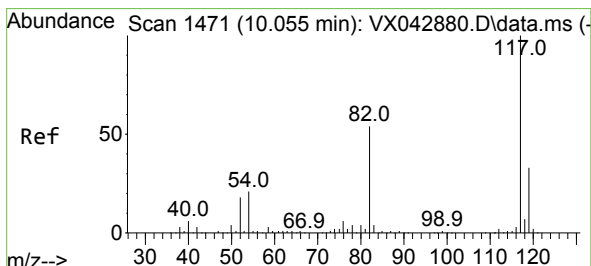
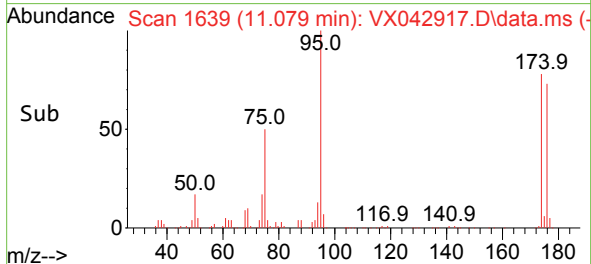
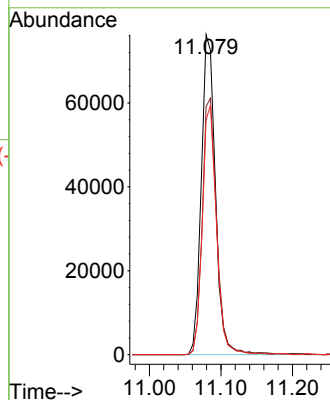
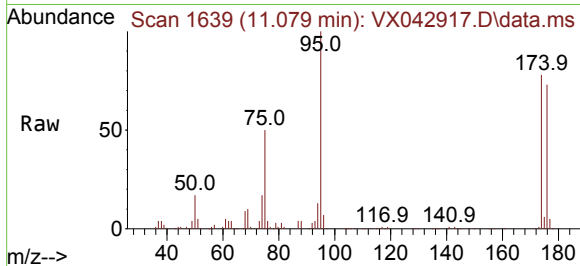




#62  
4-Bromofluorobenzene  
Concen: 50.536 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX042917.D  
Acq: 07 Aug 2024 15:48

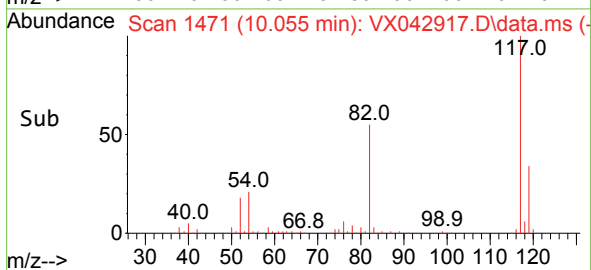
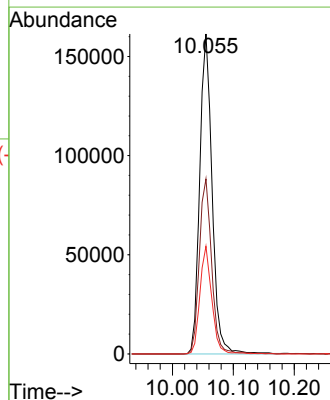
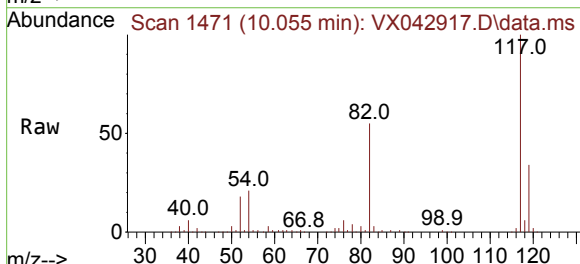
Instrument :  
MSVOA\_X  
ClientSampleId :  
S-864-K2-SO-12.75-13.25-072024ME

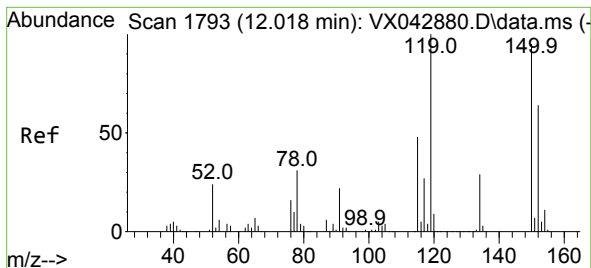
Tgt Ion: 95 Resp: 104926  
Ion Ratio Lower Upper  
95 100  
174 81.1 0.0 135.6  
176 77.7 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX042917.D  
Acq: 07 Aug 2024 15:48

Tgt Ion: 117 Resp: 227710  
Ion Ratio Lower Upper  
117 100  
82 54.7 46.2 69.4  
119 33.7 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX042917.D

Acq: 07 Aug 2024 15:48

Instrument :

MSVOA\_X

ClientSampleId :

S-864-K2-SO-12.75-13.25-072024ME

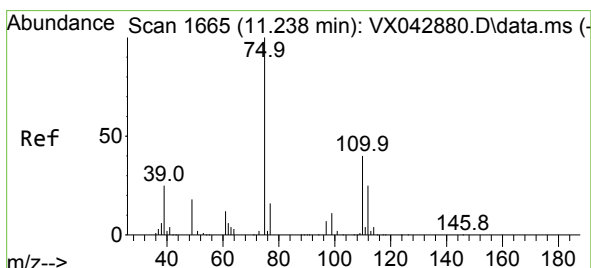
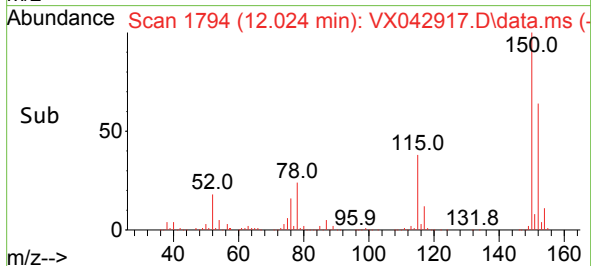
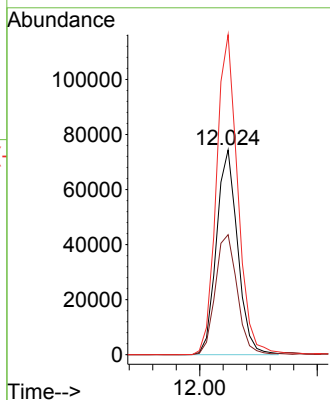
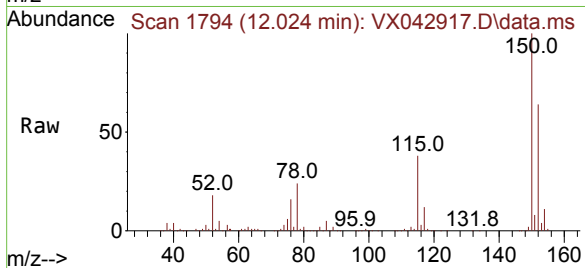
Tgt Ion:152 Resp: 93343

Ion Ratio Lower Upper

152 100

115 60.9 43.3 129.9

150 158.1 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 24.836 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX042917.D

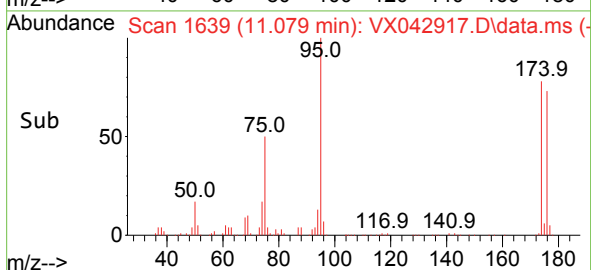
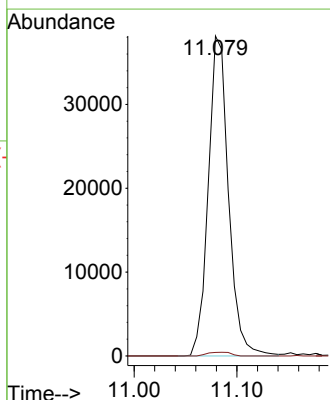
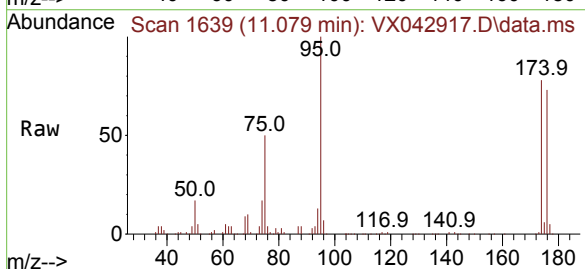
Acq: 07 Aug 2024 15:48

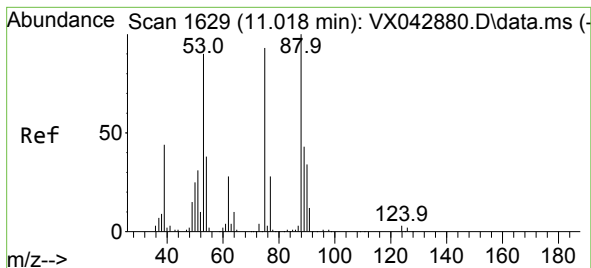
Tgt Ion: 75 Resp: 52138

Ion Ratio Lower Upper

75 100

77 1.4 19.1 57.5#

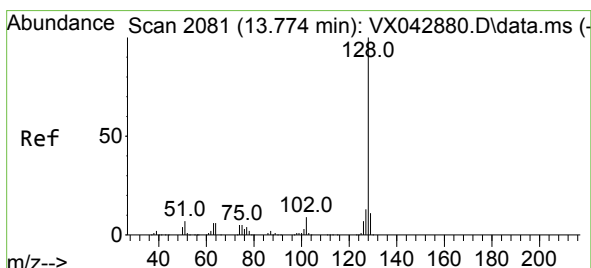
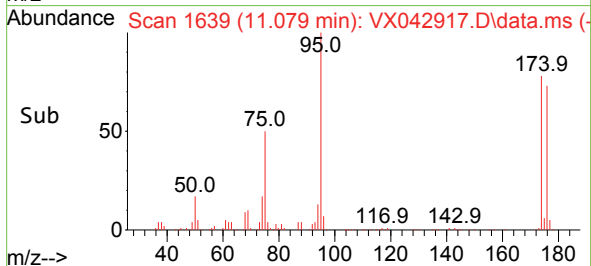
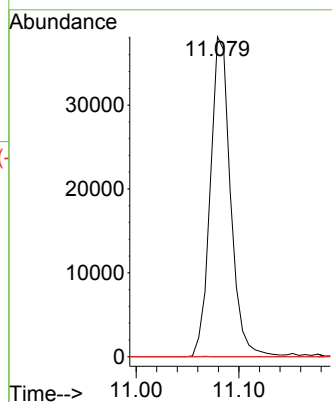
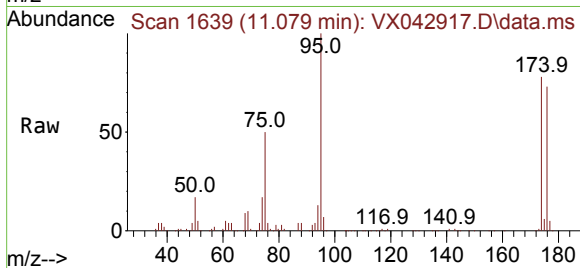




#81  
trans-1,4-Dichloro-2-butene  
Concen: 80.756 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX042917.D  
Acq: 07 Aug 2024 15:48

Instrument : MSVOA\_X  
ClientSampleId : S-864-K2-SO-12.75-13.25-072024ME

Tgt Ion: 75 Resp: 52138  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#



#95  
Naphthalene  
Concen: 0.658 ug/l  
RT: 13.780 min Scan# 2082  
Delta R.T. 0.006 min  
Lab File: VX042917.D  
Acq: 07 Aug 2024 15:48

Tgt Ion:128 Resp: 4323  
Ion Ratio Lower Upper  
128 100  
127 10.2 10.3 15.5#  
129 9.4 8.8 13.2

