

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX042622\  
 Data File : VX028354.D  
 Acq On : 26 Apr 2022 16:59  
 Operator : JC/MD  
 Sample : IBLK  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 IBLK

Quant Time: Apr 27 02:06:25 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X041922W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 19 13:38:04 2022  
 Response via : Initial Calibration

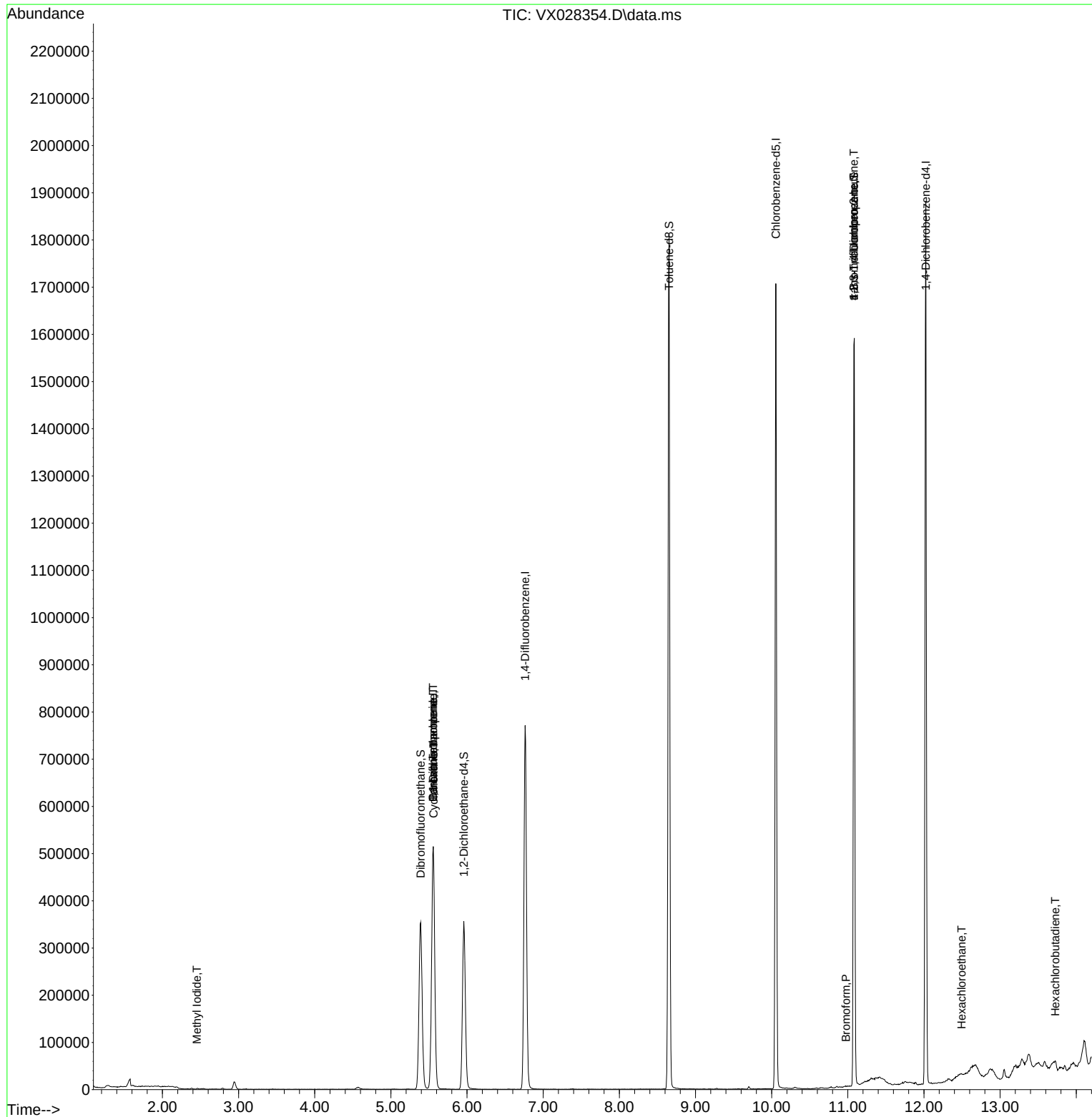
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 529857   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 848564   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 801599   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 404112   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 324760   | 47.007    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery  | =      | 94.020%  |
| 35) Dibromofluoromethane      | 5.391  | 113   | 307738   | 51.713    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery  | =      | 103.420% |
| 50) Toluene-d8                | 8.653  | 98    | 1119430  | 48.977    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery  | =      | 97.960%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 422450   | 48.339    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery  | =      | 96.680%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 1.294  | 50    | 711      | Below Cal |        | 97       |
| 5) Bromomethane               | 1.617  | 94    | 1270     | Below Cal | #      | 72       |
| 6) Chloroethane               | 1.685  | 64    | 452      | Below Cal | #      | 88       |
| 8) Diethyl Ether              | 2.111  | 74    | 19       | Below Cal | #      | 7        |
| 10) Methyl Iodide             | 2.453  | 142   | 1443     | 5.455     | ug/l   | 96       |
| 11) Tert butyl alcohol        | 2.947  | 59    | 8900     | Below Cal | #      | 74       |
| 16) Acetone                   | 2.373  | 43    | 1772     | Below Cal |        | 92       |
| 31) Cyclohexane               | 5.562  | 56    | 9112     | 1.083     | ug/l # | 17       |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 34670    | 4.466     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.556  | 117   | 49809    | 5.684     | ug/l # | 14       |
| 71) Bromoform                 | 10.976 | 173   | 137      | 3.597     | ug/l # | 29       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 205490   | 25.837    | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 205490   | 76.782    | ug/l # | 15       |
| 90) Hexachloroethane          | 12.494 | 117   | 134      | 1.842     | ug/l   | 82       |
| 94) Hexachlorobutadiene       | 13.725 | 225   | 1287     | 0.359     | ug/l   | 80       |
| -----                         |        |       |          |           |        |          |

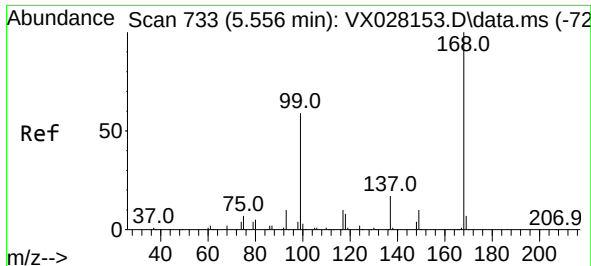
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : IBLK  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
IBLK

Quant Time: Apr 27 02:06:25 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X041922W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 19 13:38:04 2022  
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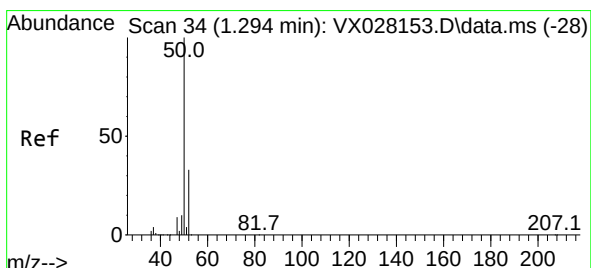
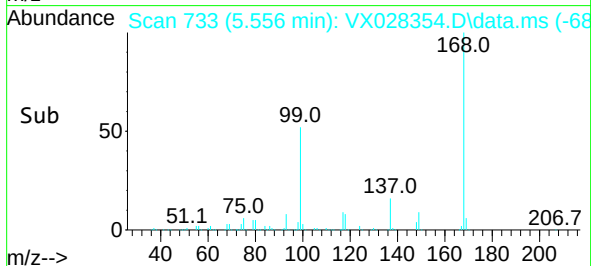
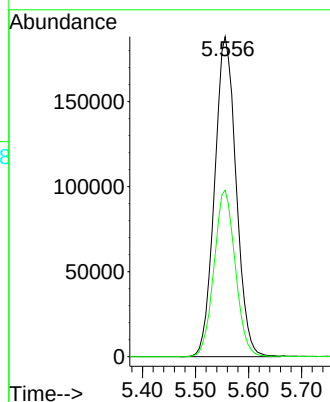
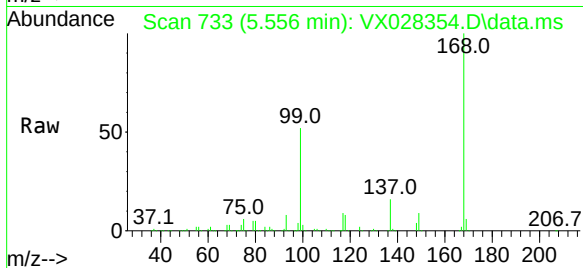




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX028354.D  
Acq: 26 Apr 2022 16:59

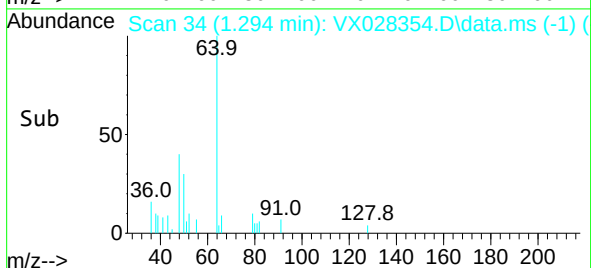
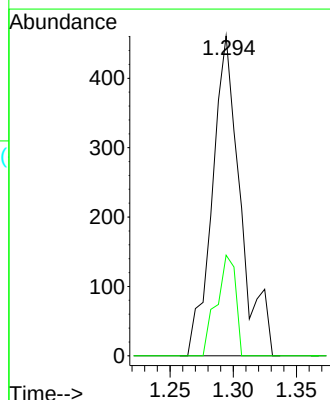
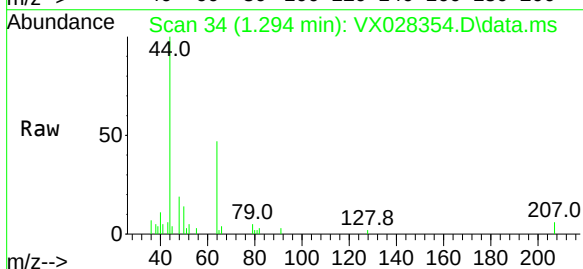
Instrument :  
MSVOA\_X  
ClientSampleId :  
IBLK

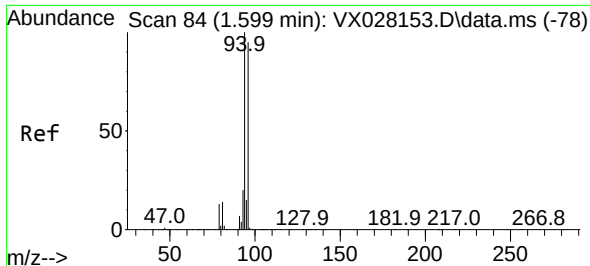
Tgt Ion:168 Resp: 529857  
Ion Ratio Lower Upper  
168 100  
99 52.0 41.7 62.5



#3  
Chloromethane  
Concen: Below Cal  
RT: 1.294 min Scan# 34  
Delta R.T. 0.000 min  
Lab File: VX028354.D  
Acq: 26 Apr 2022 16:59

Tgt Ion: 50 Resp: 711  
Ion Ratio Lower Upper  
50 100  
52 31.5 26.4 39.6

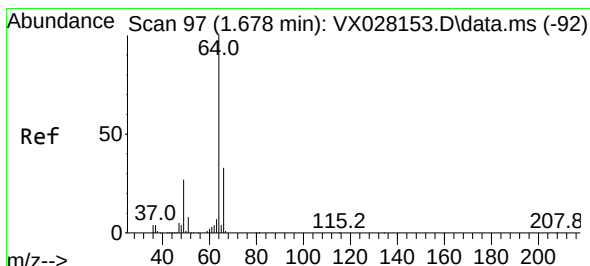
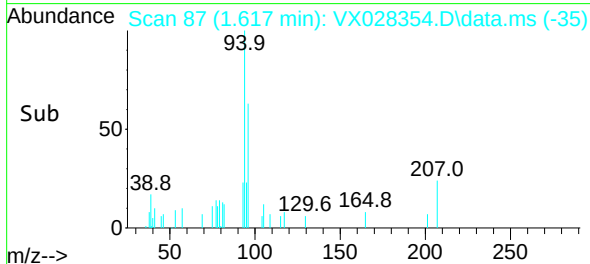
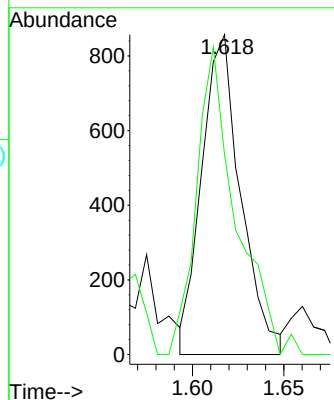
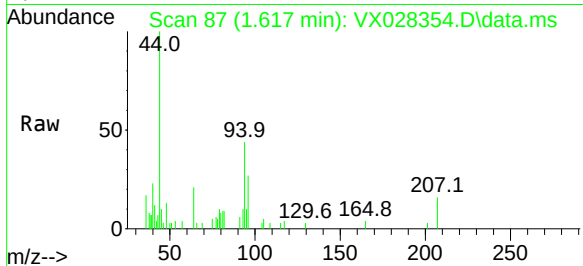




#5  
Bromomethane  
Concen: Below Cal  
RT: 1.617 min Scan# 81  
Delta R.T. 0.018 min  
Lab File: VX028354.D  
Acq: 26 Apr 2022 16:59

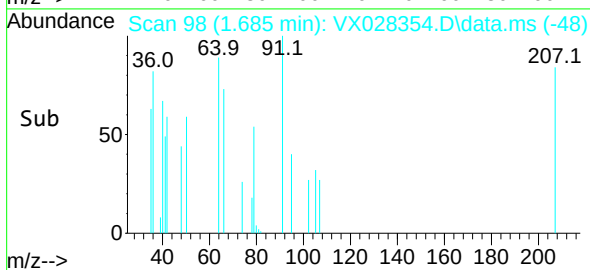
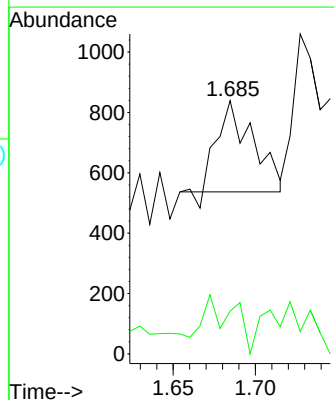
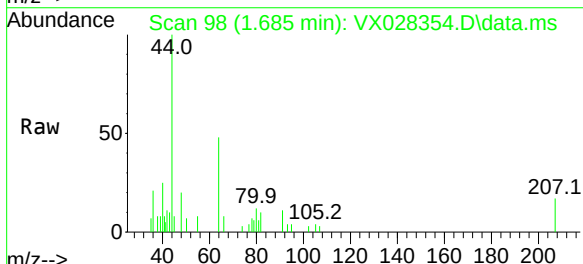
Instrument :  
MSVOA\_X  
ClientSampleId :  
IBLK

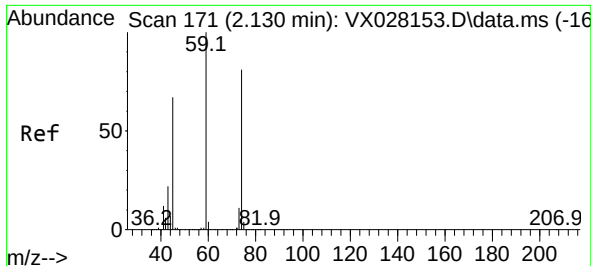
Tgt Ion: 94 Resp: 1270  
Ion Ratio Lower Upper  
94 100  
96 66.7 75.3 112.9#



#6  
Chloroethane  
Concen: Below Cal  
RT: 1.685 min Scan# 98  
Delta R.T. 0.007 min  
Lab File: VX028354.D  
Acq: 26 Apr 2022 16:59

Tgt Ion: 64 Resp: 452  
Ion Ratio Lower Upper  
64 100  
66 25.2 25.3 37.9#

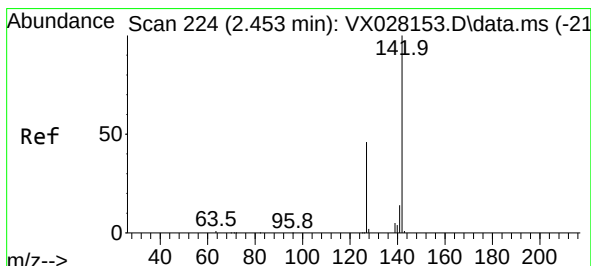
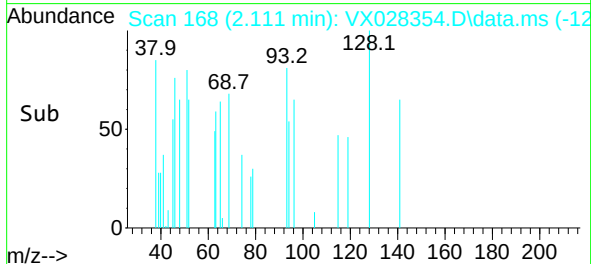
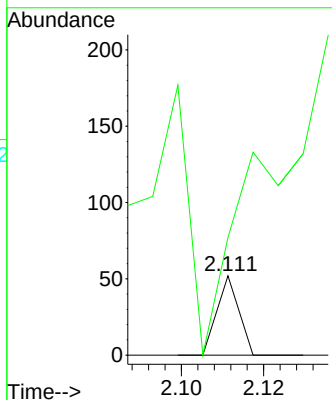
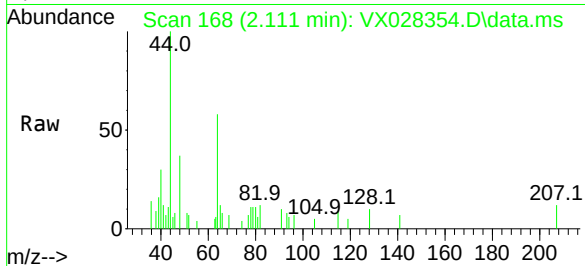




#8  
Diethyl Ether  
Concen: Below Cal  
RT: 2.111 min Scan# 1  
Delta R.T. -0.019 min  
Lab File: VX028354.D  
Acq: 26 Apr 2022 16:59

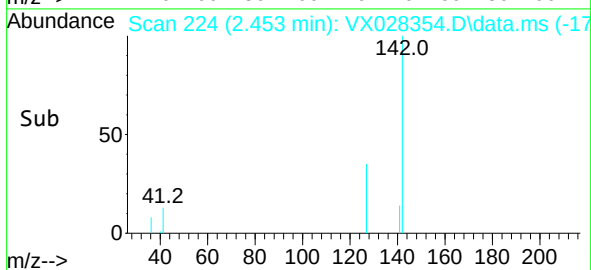
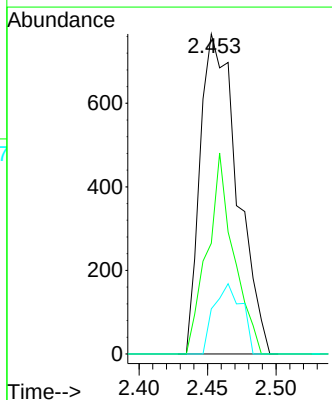
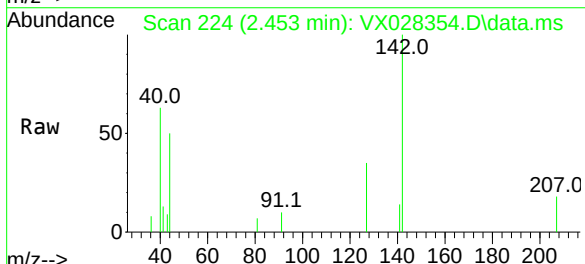
Instrument :  
MSVOA\_X  
ClientSampleId :  
IBLK

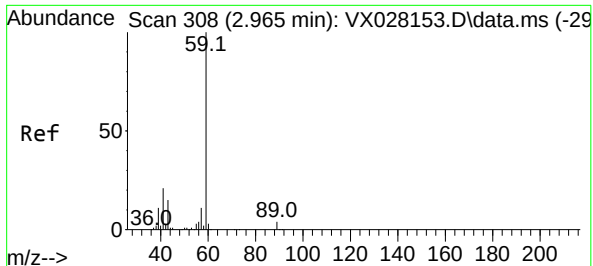
Tgt Ion: 74 Resp: 19  
Ion Ratio Lower Upper  
74 100  
45 0.0 42.0 126.0#



#10  
Methyl Iodide  
Concen: 5.455 ug/l  
RT: 2.453 min Scan# 224  
Delta R.T. -0.000 min  
Lab File: VX028354.D  
Acq: 26 Apr 2022 16:59

Tgt Ion:142 Resp: 1443  
Ion Ratio Lower Upper  
142 100  
127 44.6 33.9 50.9  
141 16.5 11.4 17.2

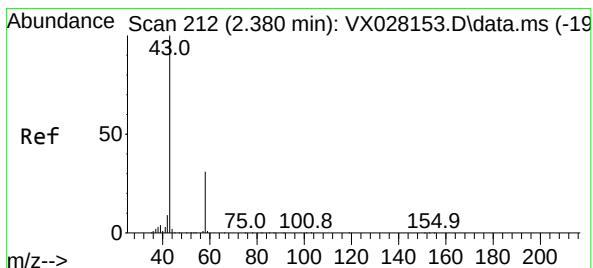
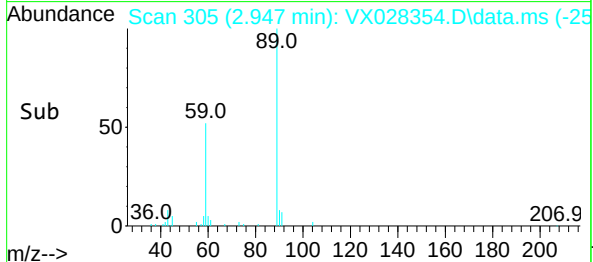
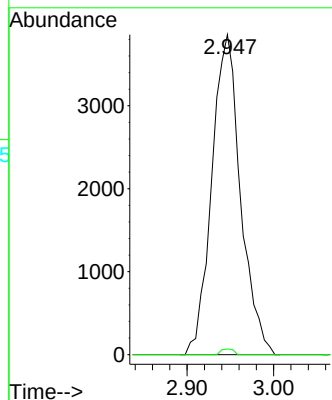
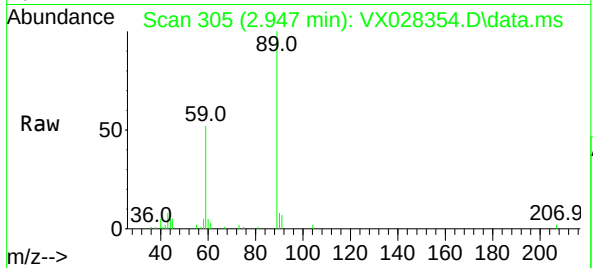




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 2.947 min Scan# 308  
Delta R.T. -0.018 min  
Lab File: VX028354.D  
Acq: 26 Apr 2022 16:59

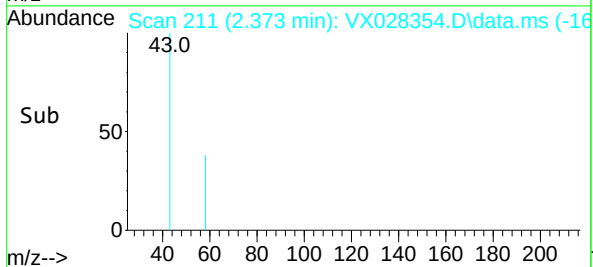
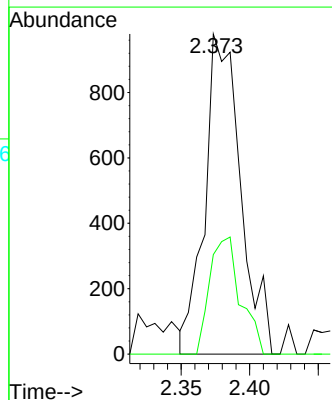
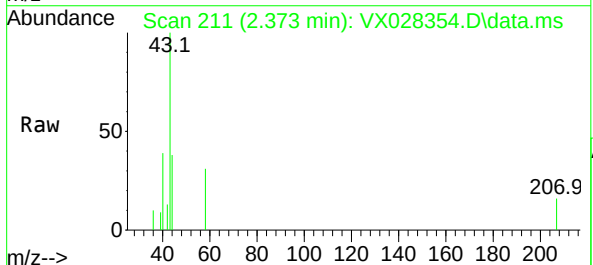
Instrument :  
MSVOA\_X  
ClientSampleId :  
IBLK

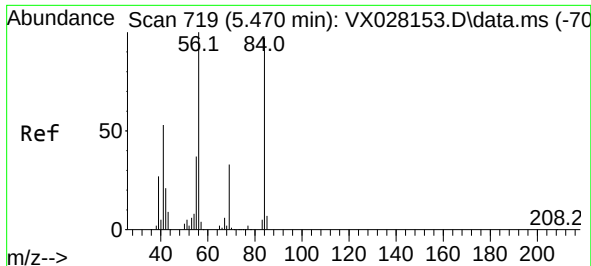
Tgt Ion: 59 Resp: 8900  
Ion Ratio Lower Upper  
59 100  
57 0.8 8.3 12.5#



#16  
Acetone  
Concen: Below Cal  
RT: 2.373 min Scan# 211  
Delta R.T. -0.007 min  
Lab File: VX028354.D  
Acq: 26 Apr 2022 16:59

Tgt Ion: 43 Resp: 1772  
Ion Ratio Lower Upper  
43 100  
58 31.1 28.8 43.2

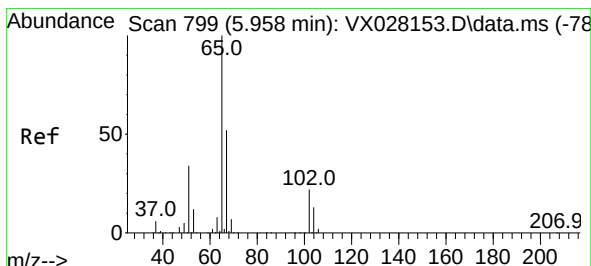
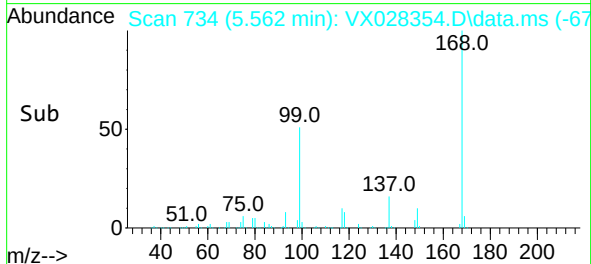
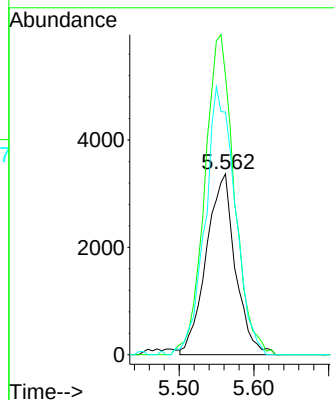
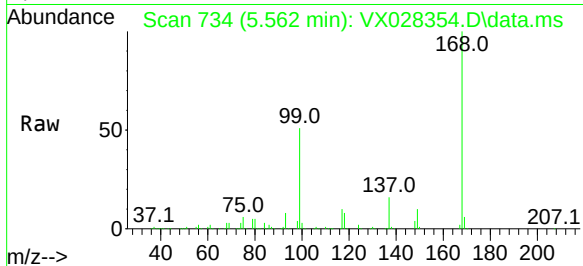




#31  
Cyclohexane  
Concen: 1.083 ug/l  
RT: 5.562 min Scan# 719  
Delta R.T. 0.092 min  
Lab File: VX028354.D  
Acq: 26 Apr 2022 16:59

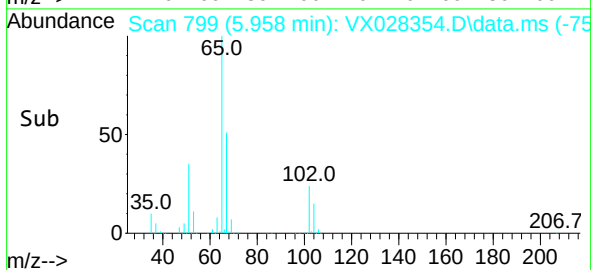
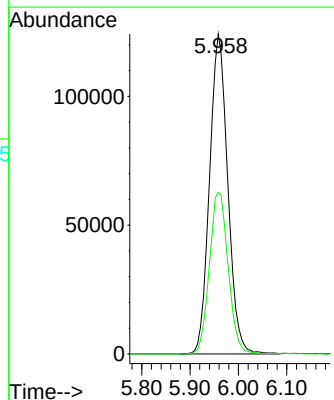
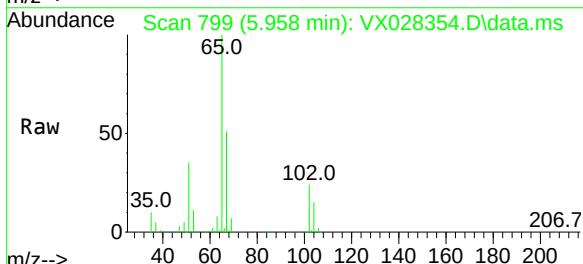
Instrument :  
MSVOA\_X  
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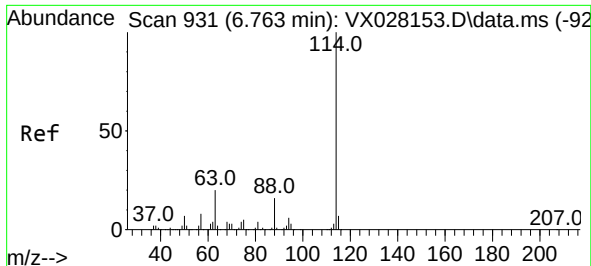
Tgt Ion: 56 Resp: 9112  
Ion Ratio Lower Upper  
56 100  
69 154.4 26.7 40.1#  
84 134.2 77.2 115.8#



#33  
1,2-Dichloroethane-d4  
Concen: 47.007 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX028354.D  
Acq: 26 Apr 2022 16:59

Tgt Ion: 65 Resp: 324760  
Ion Ratio Lower Upper  
65 100  
67 52.1 0.0 107.4

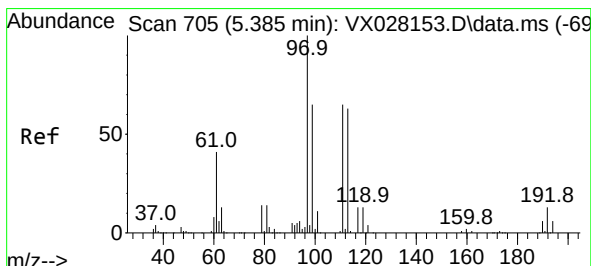
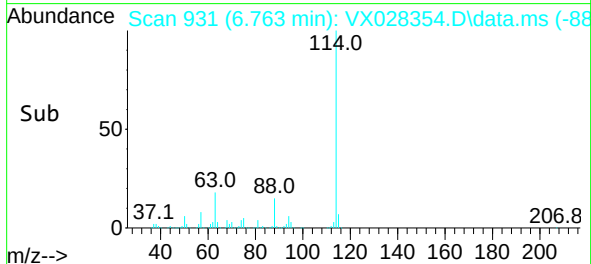
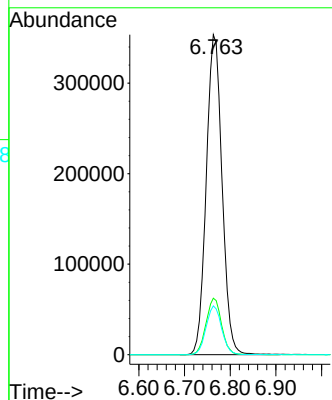
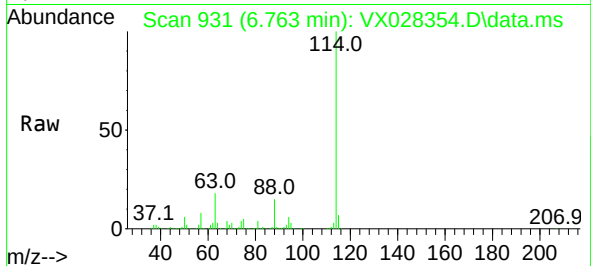




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX028354.D  
Acq: 26 Apr 2022 16:59

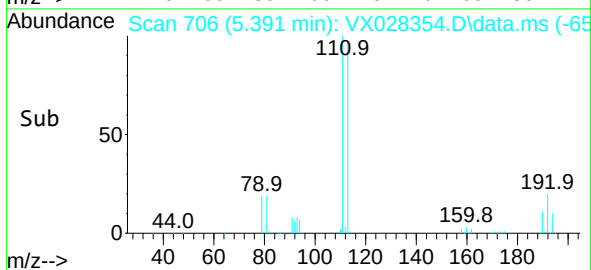
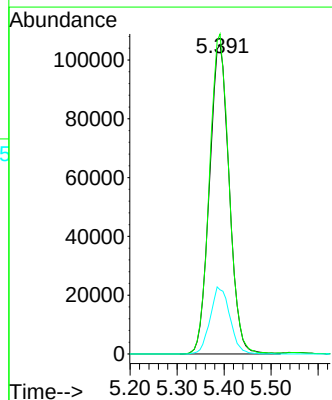
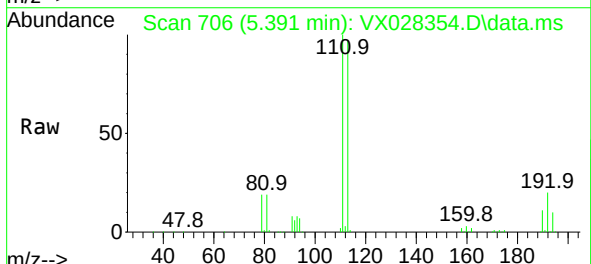
Instrument :  
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IBLK

Tgt Ion:114 Resp: 848564  
Ion Ratio Lower Upper  
114 100  
63 17.6 0.0 36.8  
88 15.2 0.0 32.4

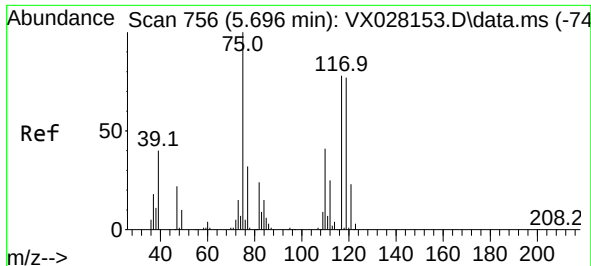


#35  
Dibromofluoromethane  
Concen: 51.713 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.006 min  
Lab File: VX028354.D  
Acq: 26 Apr 2022 16:59

Tgt Ion:113 Resp: 307738  
Ion Ratio Lower Upper  
113 100  
111 102.0 82.8 124.2  
192 21.5 16.9 25.3



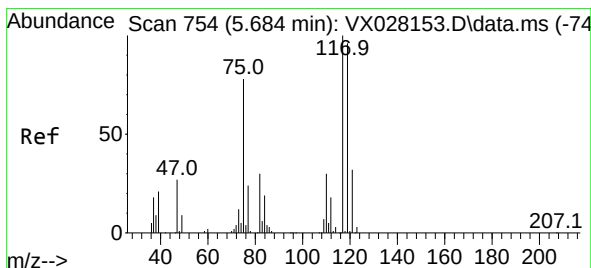
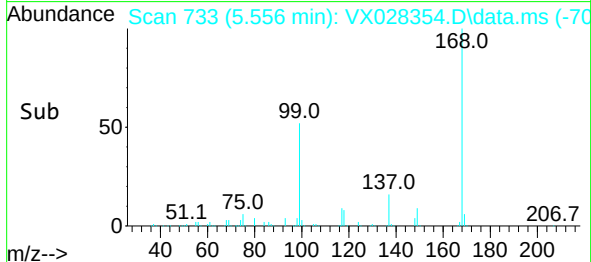
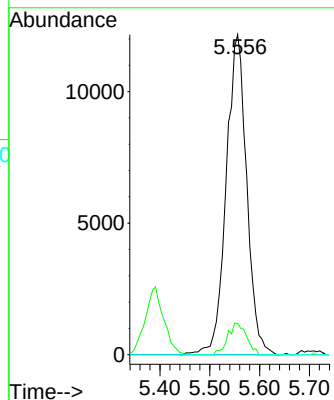
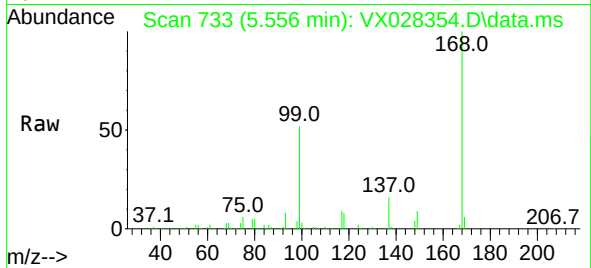




#36  
1,1-Dichloropropene  
Concen: 4.466 ug/l  
RT: 5.556 min Scan# 711  
Delta R.T. -0.140 min  
Lab File: VX028354.D  
Acq: 26 Apr 2022 16:59

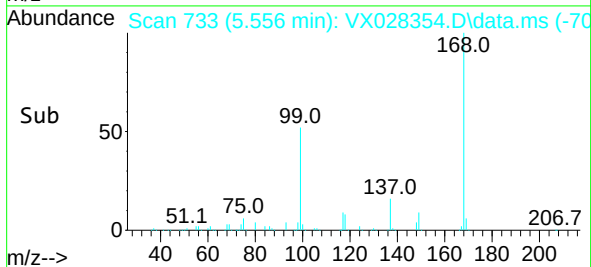
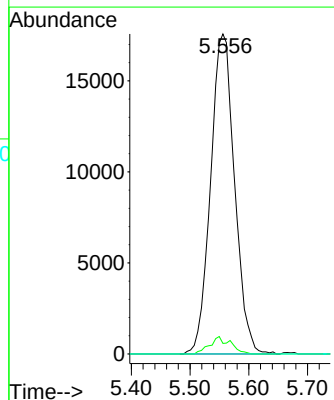
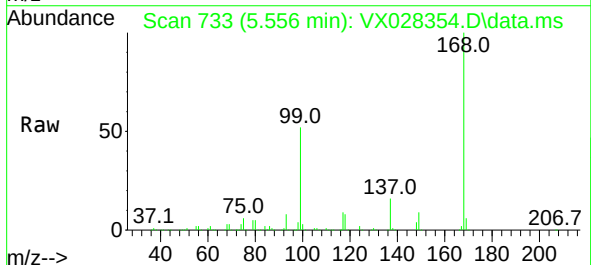
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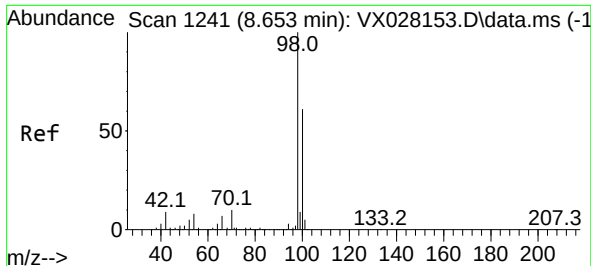
Tgt Ion: 75 Resp: 34670  
Ion Ratio Lower Upper  
75 100  
110 9.0 18.3 54.8#  
77 0.0 24.8 37.2#



#38  
Carbon Tetrachloride  
Concen: 5.684 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.128 min  
Lab File: VX028354.D  
Acq: 26 Apr 2022 16:59

Tgt Ion: 117 Resp: 49809  
Ion Ratio Lower Upper  
117 100  
119 3.3 77.3 115.9#  
121 0.0 24.2 36.2#

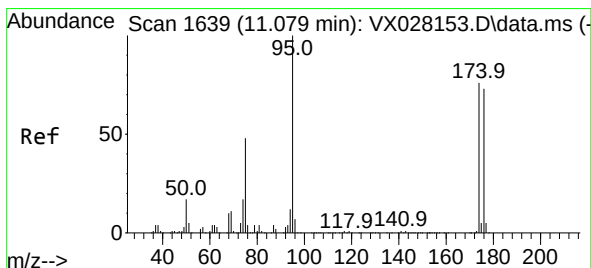
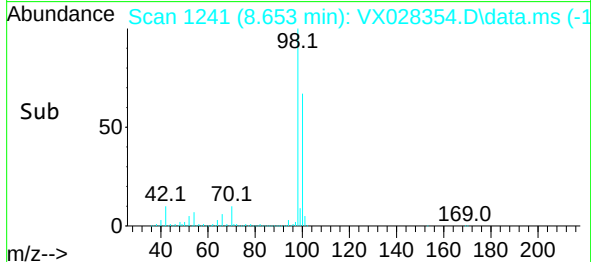
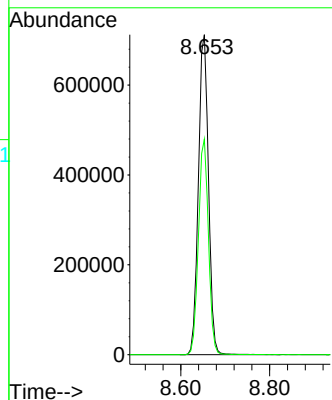
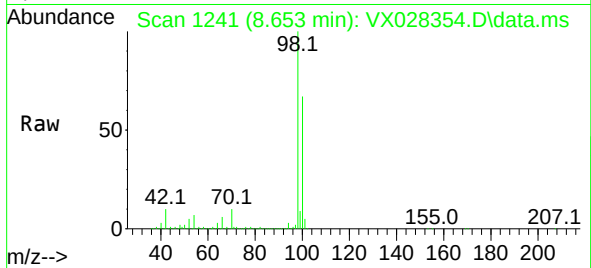




#50  
Toluene-d8  
Concen: 48.977 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX028354.D  
Acq: 26 Apr 2022 16:59

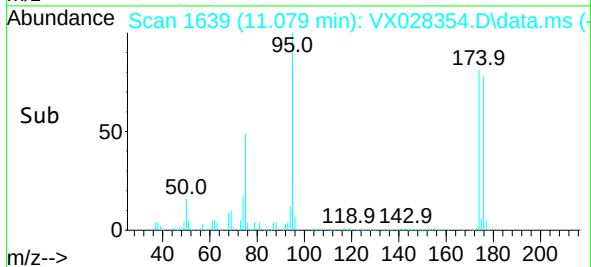
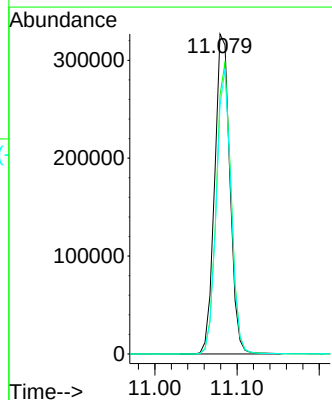
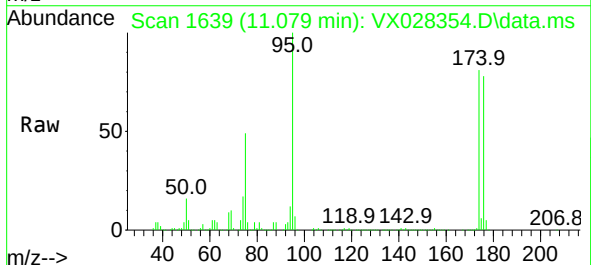
Instrument :  
MSVOA\_X  
ClientSampleId :  
IBLK

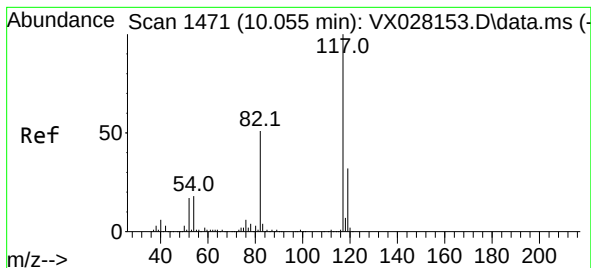
Tgt Ion: 98 Resp: 1119430  
Ion Ratio Lower Upper  
98 100  
100 66.8 52.6 78.8



#62  
4-Bromofluorobenzene  
Concen: 48.339 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX028354.D  
Acq: 26 Apr 2022 16:59

Tgt Ion: 95 Resp: 422450  
Ion Ratio Lower Upper  
95 100  
174 88.3 0.0 163.0  
176 85.7 0.0 155.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX028354.D

Acq: 26 Apr 2022 16:59

Instrument :

MSVOA\_X

ClientSampleId :

IBLK

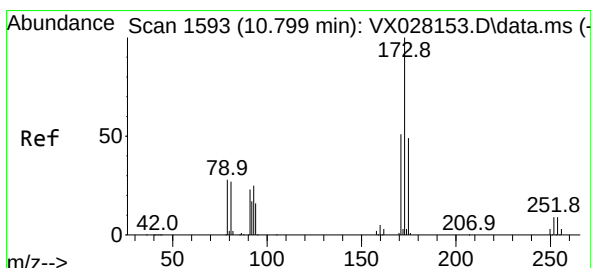
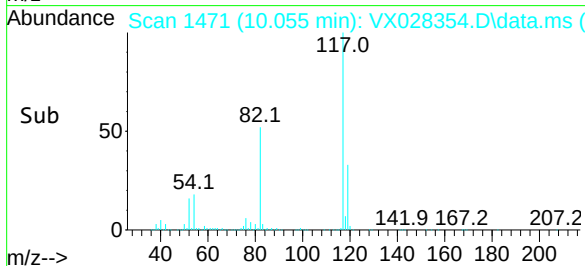
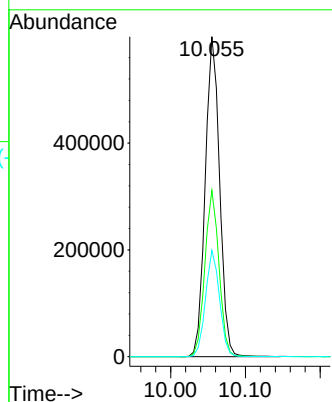
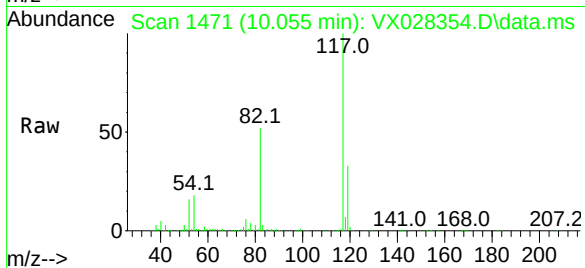
Tgt Ion:117 Resp: 801599

Ion Ratio Lower Upper

117 100

82 51.9 41.8 62.8

119 33.2 24.8 37.2



#71

Bromoform

Concen: 3.597 ug/l

RT: 10.976 min Scan# 1622

Delta R.T. 0.177 min

Lab File: VX028354.D

Acq: 26 Apr 2022 16:59

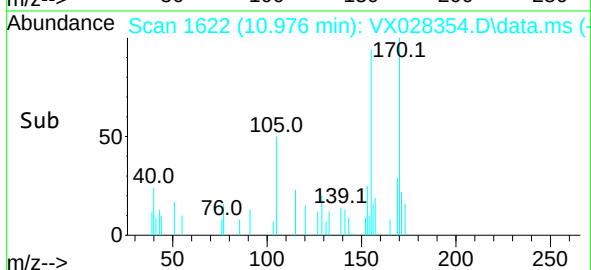
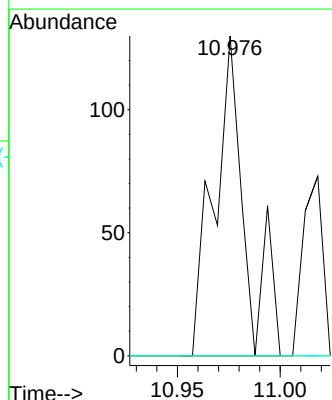
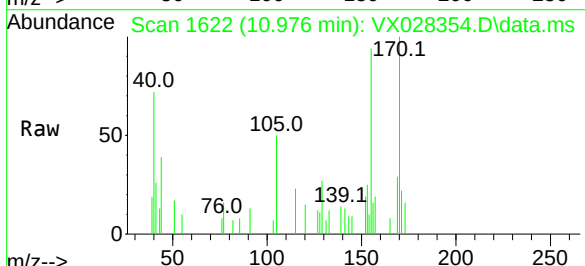
Tgt Ion:173 Resp: 137

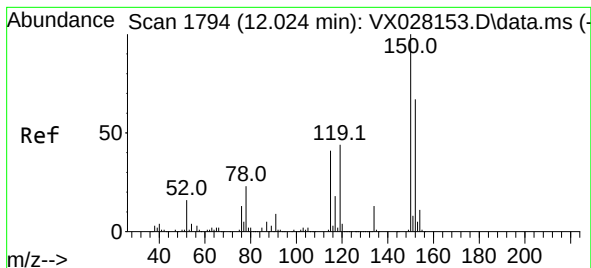
Ion Ratio Lower Upper

173 100

175 0.0 24.1 72.2#

254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX028354.D

Acq: 26 Apr 2022 16:59

Instrument :

MSVOA\_X

ClientSampleId :

IBLK

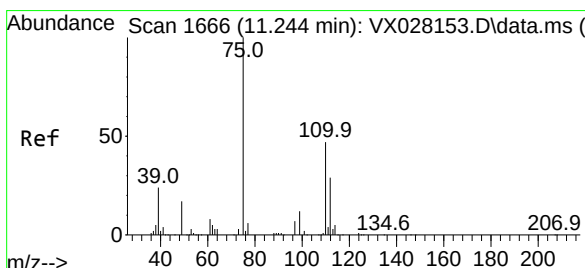
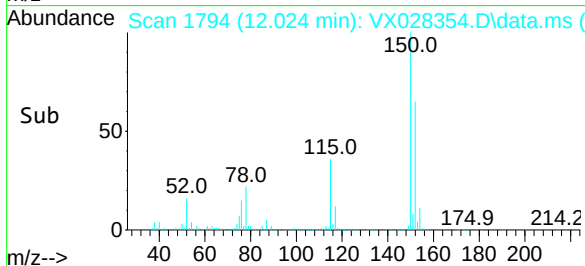
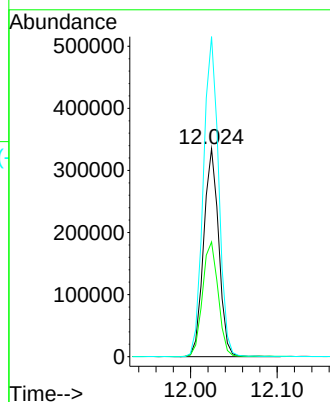
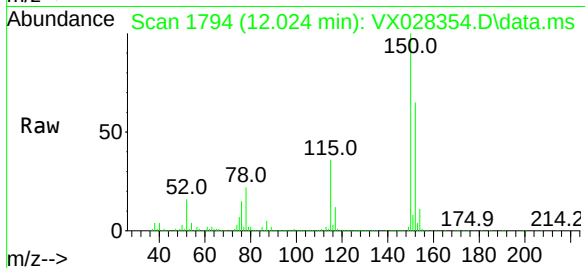
Tgt Ion:152 Resp: 404112

Ion Ratio Lower Upper

152 100

115 57.0 37.5 112.7

150 156.7 0.0 338.2



#76

1,2,3-Trichloropropane

Concen: 25.837 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.165 min

Lab File: VX028354.D

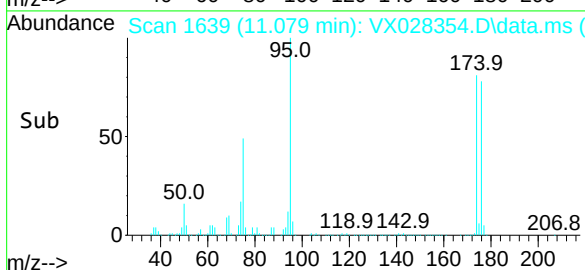
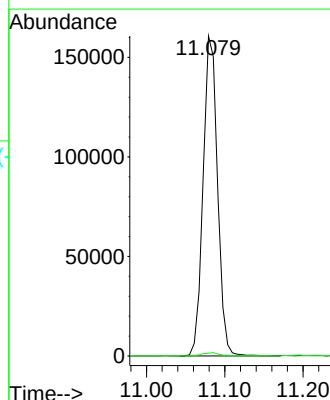
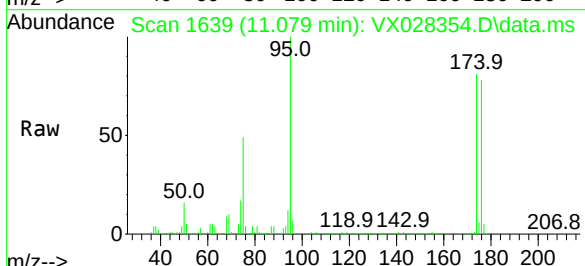
Acq: 26 Apr 2022 16:59

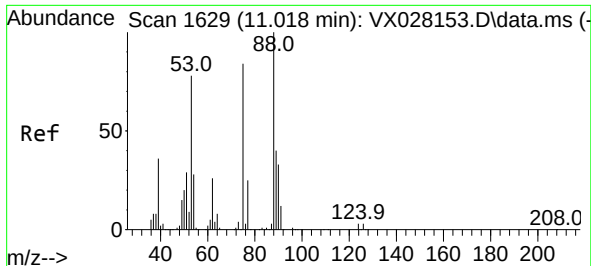
Tgt Ion: 75 Resp: 205490

Ion Ratio Lower Upper

75 100

77 1.2 19.4 58.2#

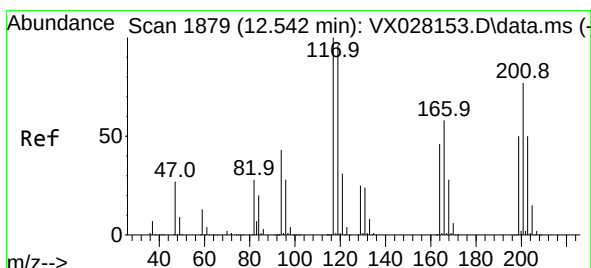
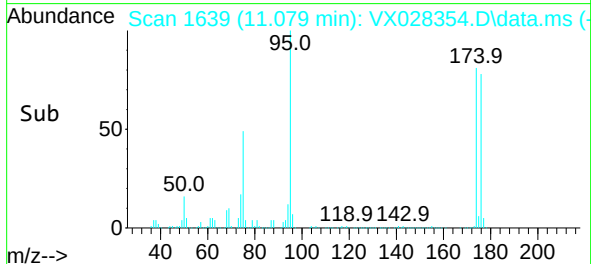
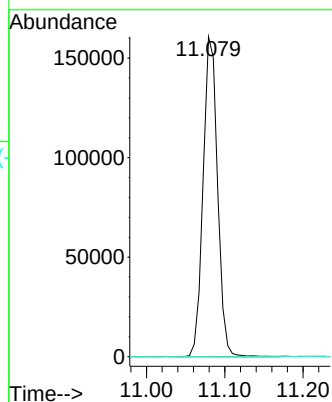
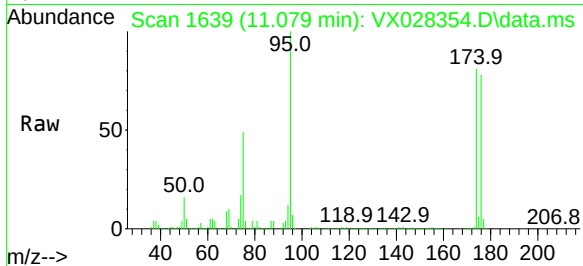




#81  
trans-1,4-Dichloro-2-butene  
Concen: 76.782 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX028354.D  
Acq: 26 Apr 2022 16:59

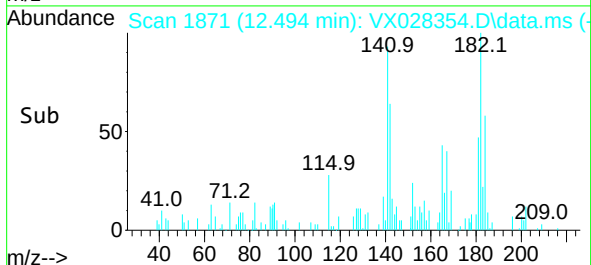
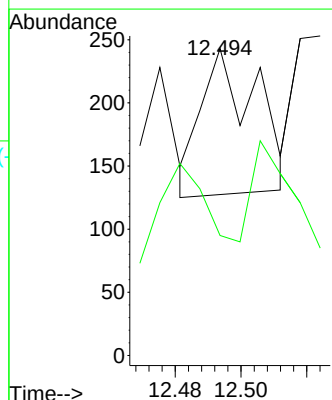
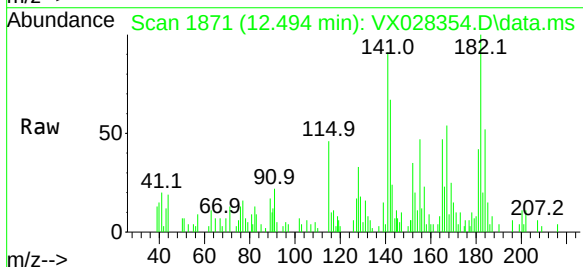
Instrument :  
MSVOA\_X  
ClientSampleId :  
IBLK

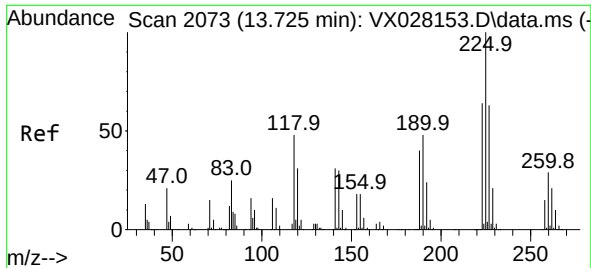
Tgt Ion: 75 Resp: 205490  
Ion Ratio Lower Upper  
75 100  
53 0.0 69.0 103.4#  
89 0.0 37.0 55.6#



#90  
Hexachloroethane  
Concen: 1.842 ug/l  
RT: 12.494 min Scan# 1871  
Delta R.T. -0.048 min  
Lab File: VX028354.D  
Acq: 26 Apr 2022 16:59

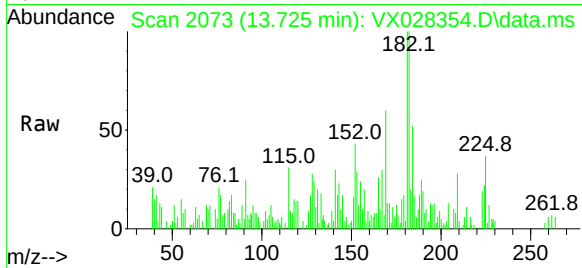
Tgt Ion: 117 Resp: 134  
Ion Ratio Lower Upper  
117 100  
201 94.8 39.5 118.5





#94  
 Hexachlorobutadiene  
 Concen: 0.359 ug/l  
 RT: 13.725 min Scan# 20  
 Delta R.T. 0.000 min  
 Lab File: VX028354.D  
 Acq: 26 Apr 2022 16:59

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 IBLK



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 1287  |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 60.5  | 34.2  | 102.5 |
| 227      | 43.9  | 33.9  | 101.7 |

