

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX100623\  
 Data File : VX038153.D  
 Acq On : 07 Oct 2023 02:56  
 Operator : JC/MD  
 Sample : VX1006WBL02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 47 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Oct 07 06:36:42 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X100623W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Oct 07 06:30:32 2023  
 Response via : Initial Calibration

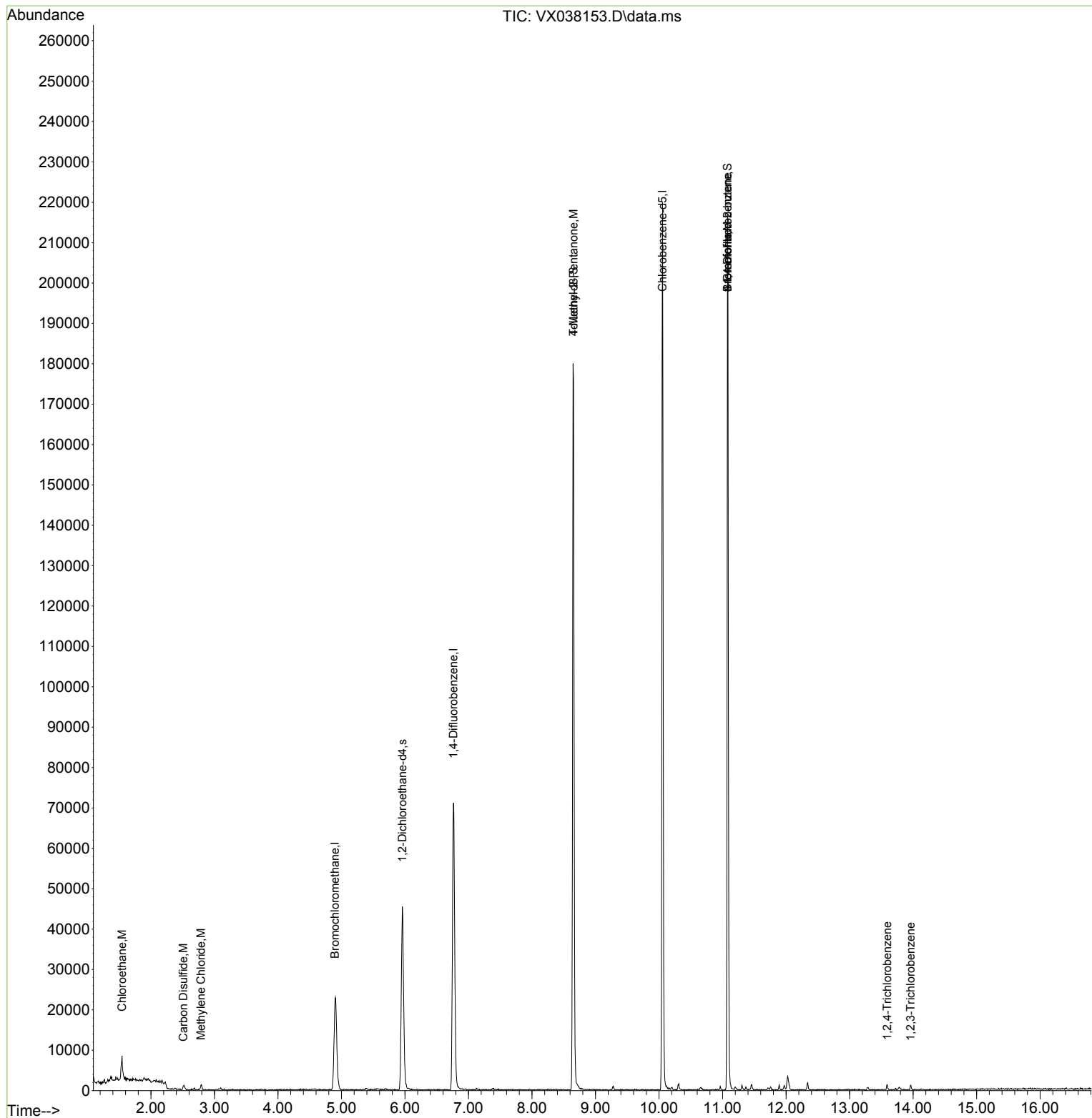
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 4.897  | 128   | 9603     | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 6.763  | 114   | 74117    | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 10.055 | 117   | 95561    | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 5.958  | 65    | 41651    | 31.748   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 105.833% |
| 60) 4-Bromofluorobenzene    | 11.079 | 95    | 55349    | 27.804   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 92.667%  |
| 63) Toluene-d8              | 8.653  | 98    | 111374   | 30.098   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 100.333% |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          |        | Qvalue   |
| 6) Chloroethane             | 1.544  | 64    | 1572     | 1.377    | ug/l   | 95       |
| 16) Carbon Disulfide        | 2.508  | 76    | 1113     | 0.392    | ug/l # | 94       |
| 18) Methylene Chloride      | 2.788  | 84    | 386      | 0.279    | ug/l # | 83       |
| 56) Bromoform               | 11.079 | 173   | 442      | 0.372    | ug/l # | 1        |
| 58) 4-Methyl-2-Pentanone    | 8.653  | 43    | 629      | 0.263    | ug/l # | 1        |
| 77) t-1,4-Dichloro-2-butene | 11.079 | 75    | 30826    | 47.136   | ug/l # | 7        |
| 89) 1,2,4-Trichlorobenzene  | 13.591 | 180   | 560      | 0.257    | ug/l # | 73       |
| 92) 1,2,3-Trichlorobenzene  | 13.963 | 180   | 471      | 0.221    | ug/l   | 82       |
| -----                       |        |       |          |          |        |          |

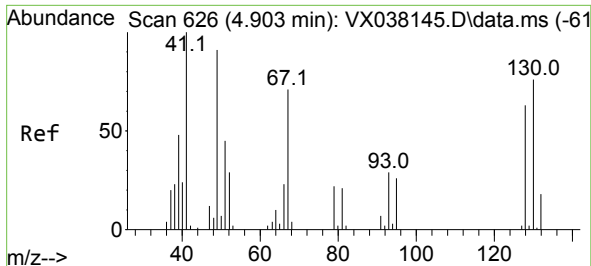
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

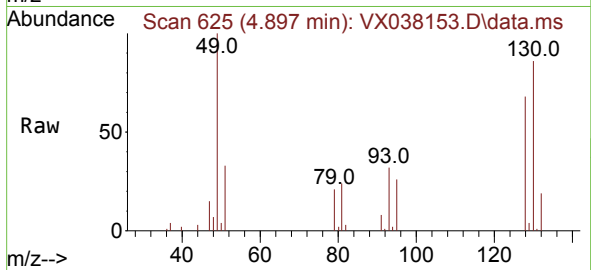
Quant Time: Oct 07 06:36:42 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X100623W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Sat Oct 07 06:30:32 2023  
Response via : Initial Calibration



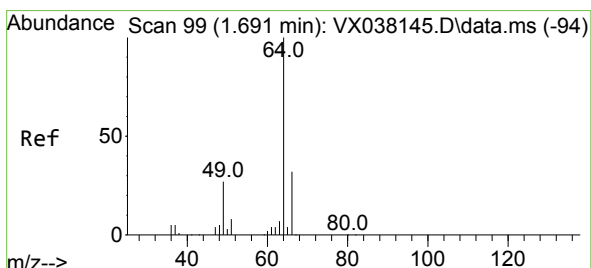
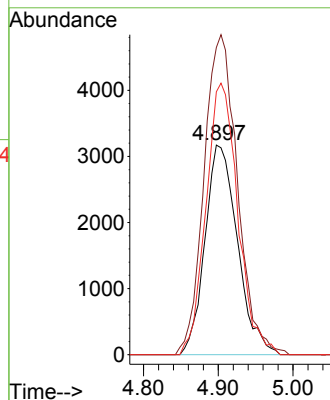
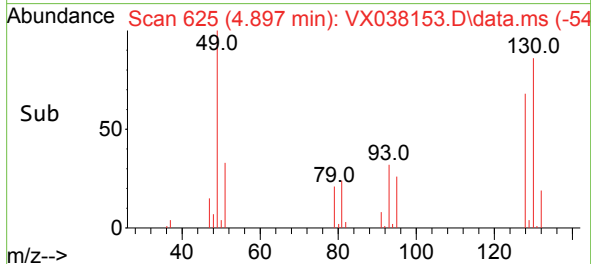


#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.897 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: VX038153.D  
Acq: 07 Oct 2023 02:56

Instrument :  
MSVOA\_X  
ClientSampleId :

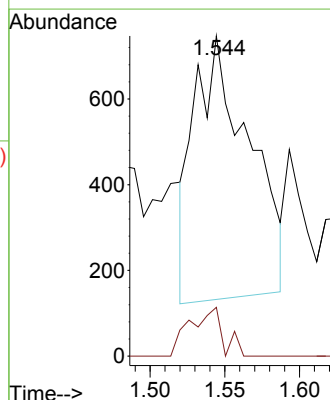
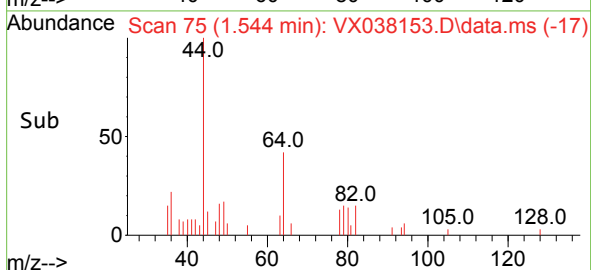
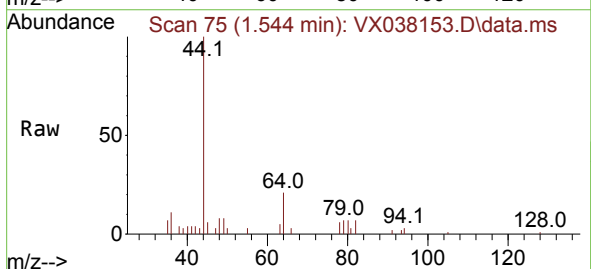


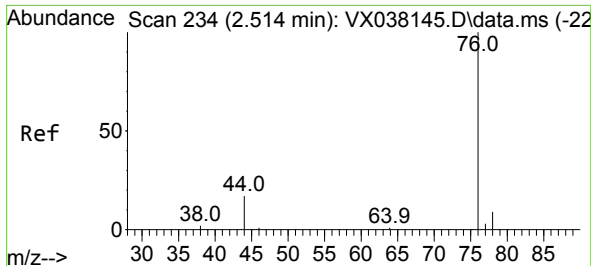
Tgt Ion:128 Resp: 9603  
Ion Ratio Lower Upper  
128 100  
49 156.9 0.0 406.3  
130 127.0 0.0 328.0



#6  
Chloroethane  
Concen: 1.377 ug/l  
RT: 1.544 min Scan# 75  
Delta R.T. -0.146 min  
Lab File: VX038153.D  
Acq: 07 Oct 2023 02:56

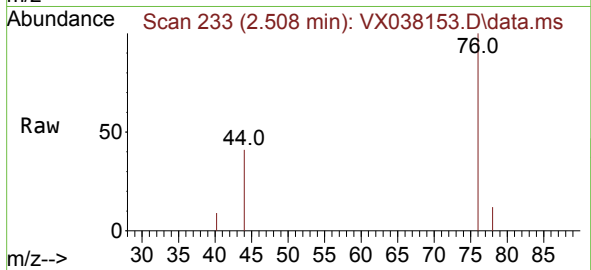
Tgt Ion: 64 Resp: 1572  
Ion Ratio Lower Upper  
64 100  
66 26.1 23.1 34.7



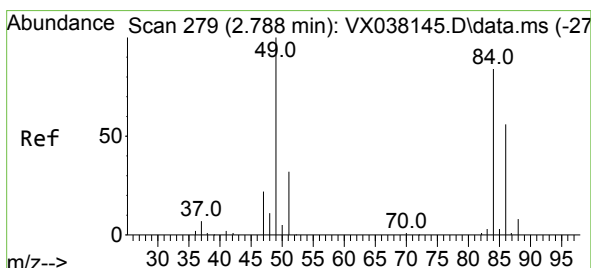
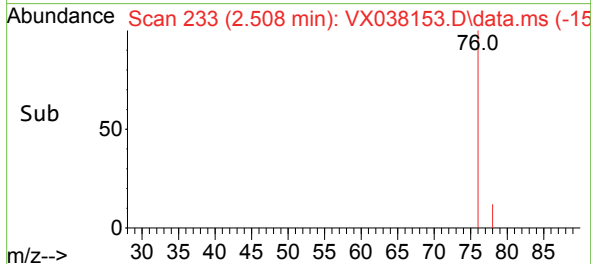
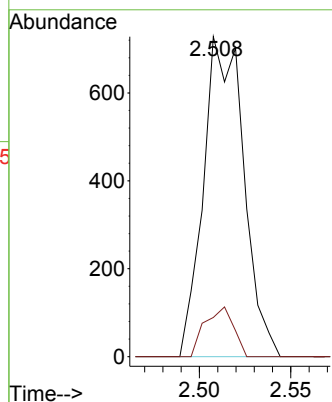


#16  
Carbon Disulfide  
Concen: 0.392 ug/l  
RT: 2.508 min Scan# 211  
Delta R.T. -0.006 min  
Lab File: VX038153.D  
Acq: 07 Oct 2023 02:56

Instrument :  
MSVOA\_X  
ClientSampleId :

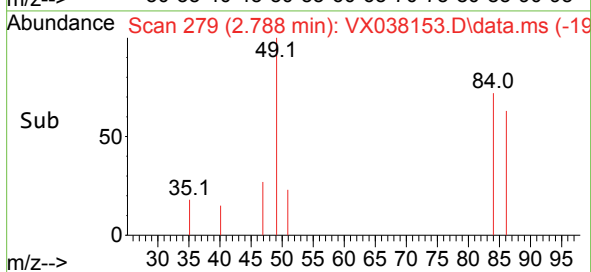
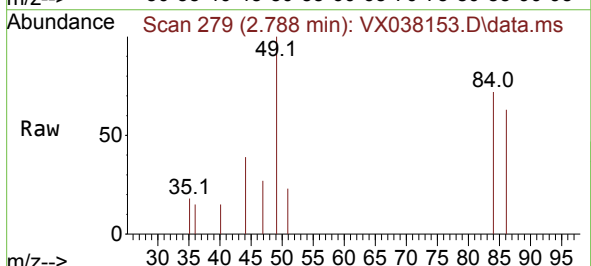
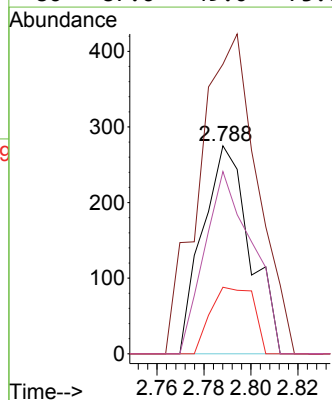


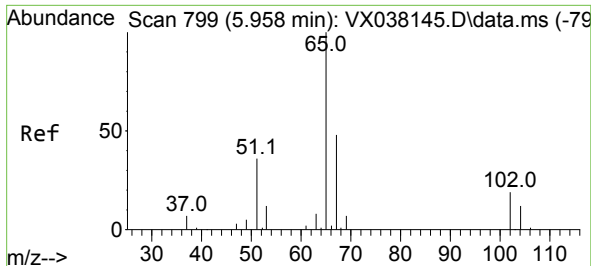
Tgt Ion: 76 Resp: 1113  
Ion Ratio Lower Upper  
76 100  
78 12.2 8.0 12.0#



#18  
Methylene Chloride  
Concen: 0.279 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. 0.000 min  
Lab File: VX038153.D  
Acq: 07 Oct 2023 02:56

Tgt Ion: 84 Resp: 386  
Ion Ratio Lower Upper  
84 100  
49 106.2 95.4 143.0  
51 32.0 28.3 42.5  
86 87.6 49.0 73.6#





#27

1,2-Dichloroethane-d4

Concen: 31.748 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX038153.D

Acq: 07 Oct 2023 02:56

Instrument :

MSVOA\_X

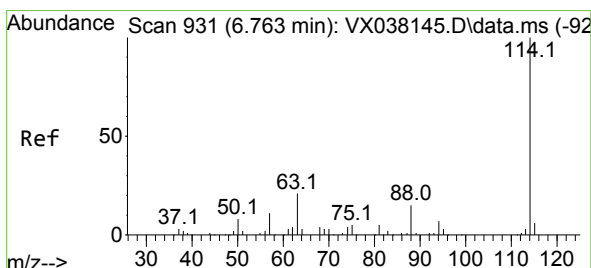
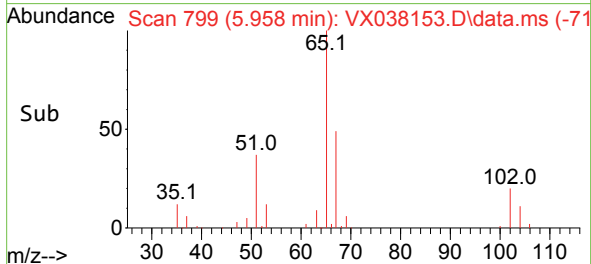
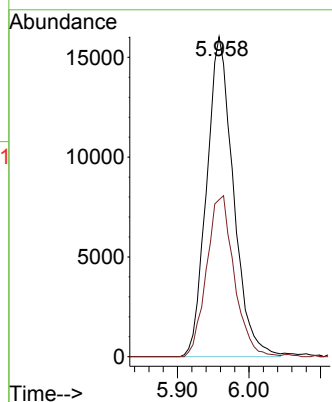
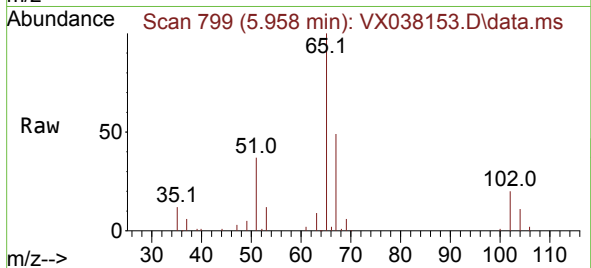
ClientSampleId :

Tgt Ion: 65 Resp: 41651

Ion Ratio Lower Upper

65 100

67 51.8 42.1 63.1



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX038153.D

Acq: 07 Oct 2023 02:56

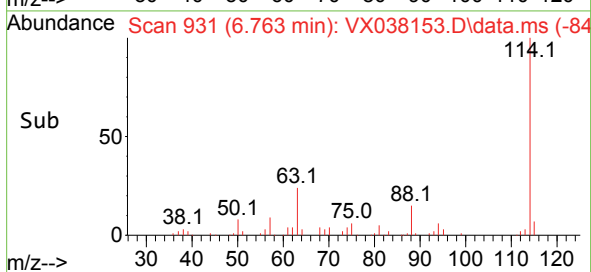
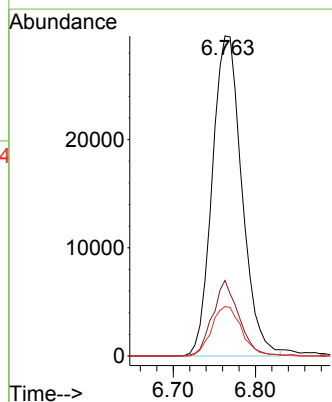
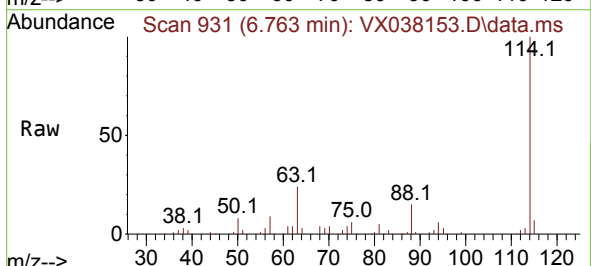
Tgt Ion: 114 Resp: 74117

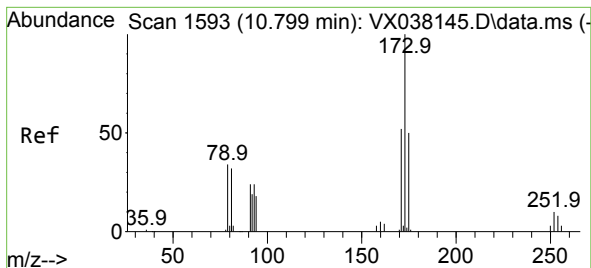
Ion Ratio Lower Upper

114 100

63 20.9 16.6 24.8

88 15.7 12.9 19.3





#56

Bromoform

Concen: 0.372 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.280 min

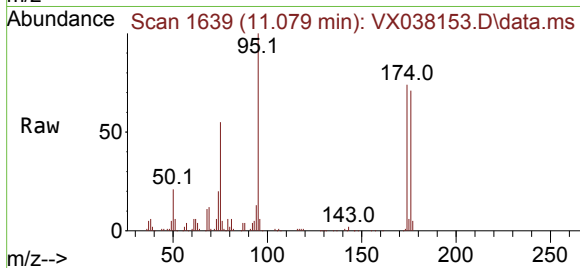
Lab File: VX038153.D

Acq: 07 Oct 2023 02:56

Instrument :

MSVOA\_X

ClientSampleId :



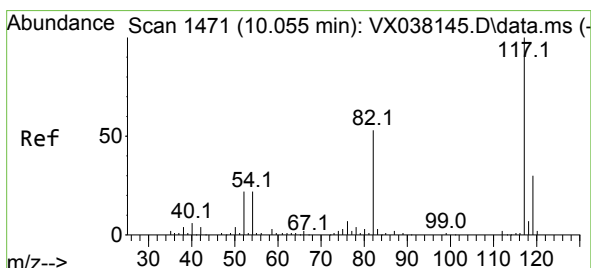
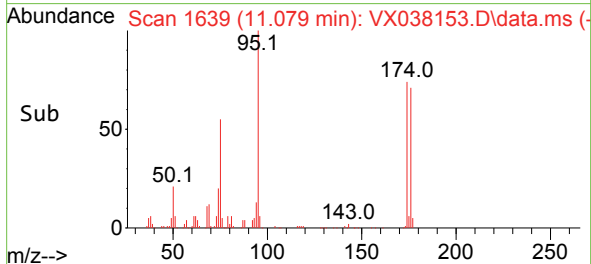
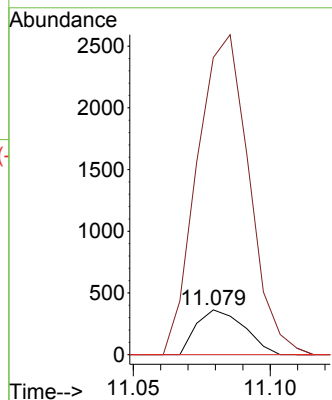
Tgt Ion:173 Resp: 442

Ion Ratio Lower Upper

173 100

175 773.5 38.1 57.1#

254 0.0 6.7 10.1#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX038153.D

Acq: 07 Oct 2023 02:56

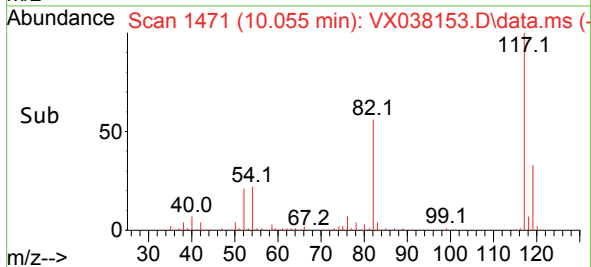
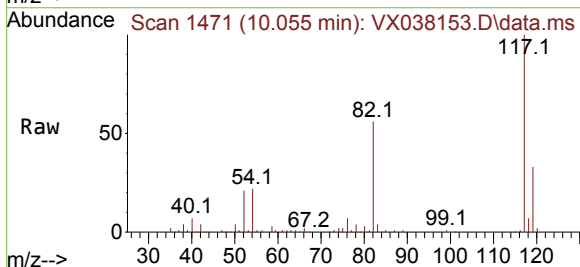
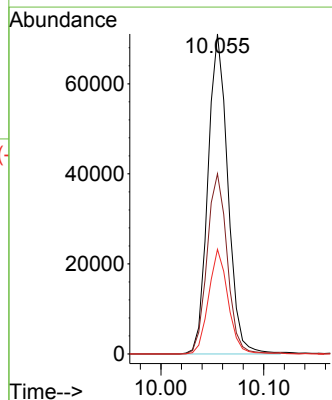
Tgt Ion:117 Resp: 95561

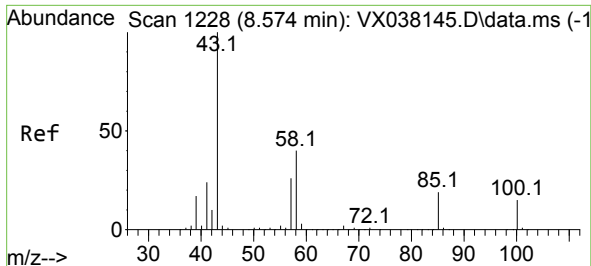
Ion Ratio Lower Upper

117 100

82 57.3 44.7 67.1

119 32.0 25.6 38.4

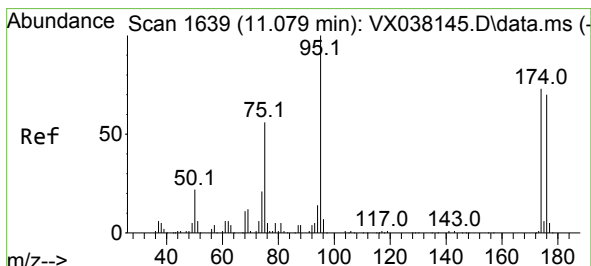
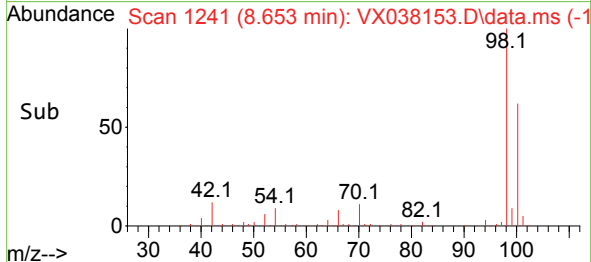
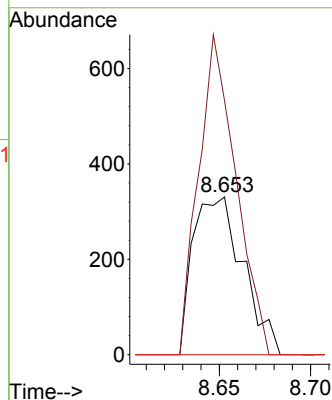
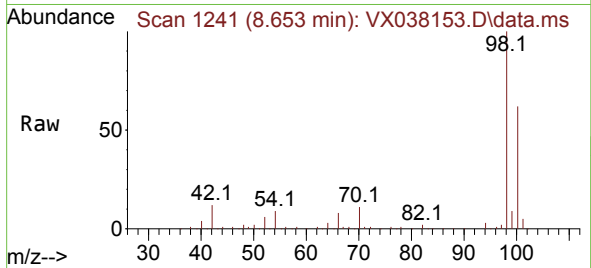




#58  
4-Methyl-2-Pentanone  
Concen: 0.263 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.079 min  
Lab File: VX038153.D  
Acq: 07 Oct 2023 02:56

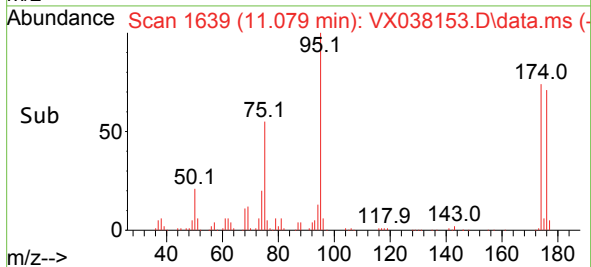
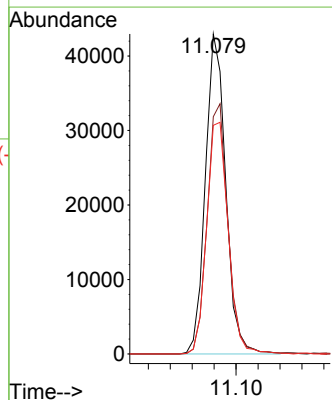
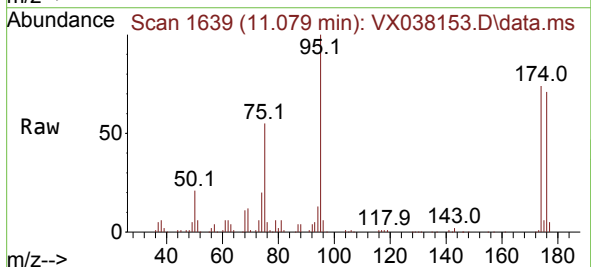
Instrument :  
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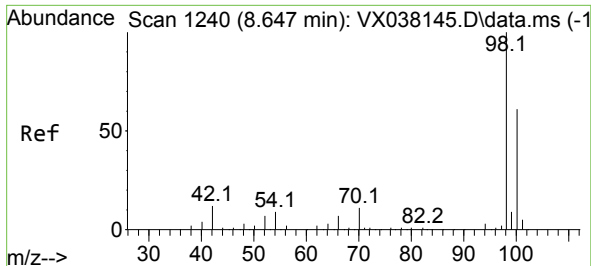
Tgt Ion: 43 Resp: 629  
Ion Ratio Lower Upper  
43 100  
58 152.3 30.9 46.3#  
85 0.0 14.4 21.6#



#60  
4-Bromofluorobenzene  
Concen: 27.804 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX038153.D  
Acq: 07 Oct 2023 02:56

Tgt Ion: 95 Resp: 55349  
Ion Ratio Lower Upper  
95 100  
174 80.0 60.5 90.7  
176 76.8 58.2 87.4

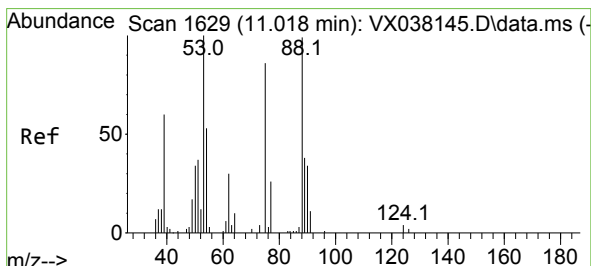
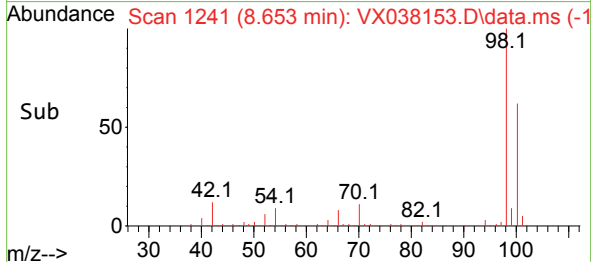
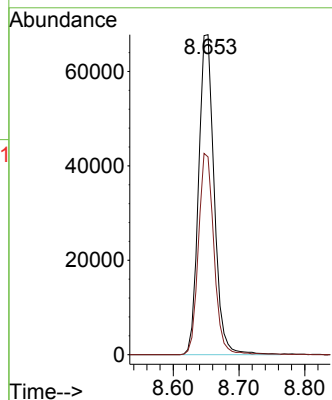
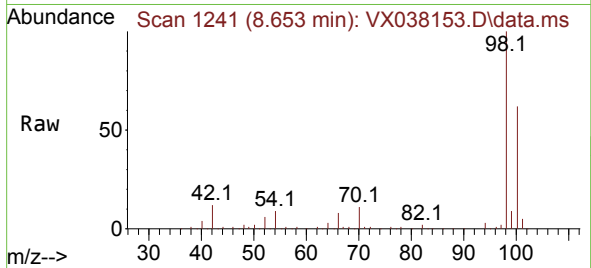




#63  
Toluene-d8  
Concen: 30.098 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX038153.D  
Acq: 07 Oct 2023 02:56

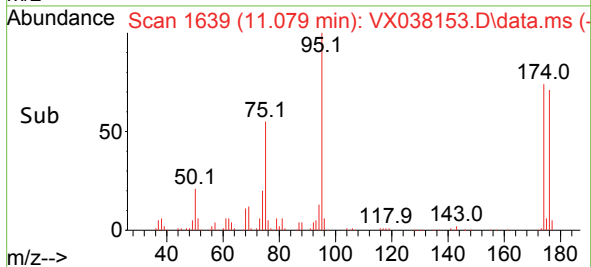
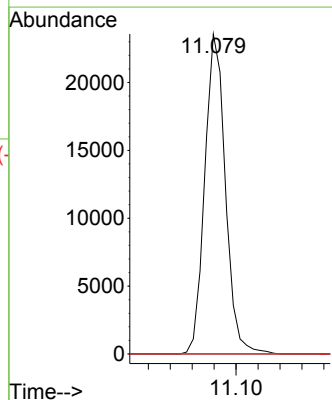
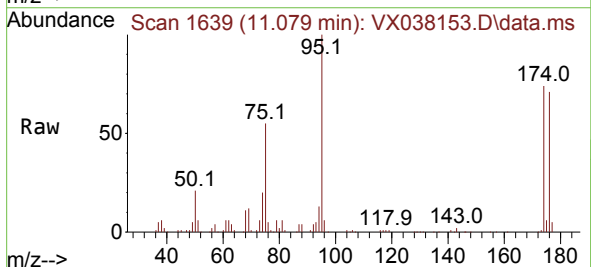
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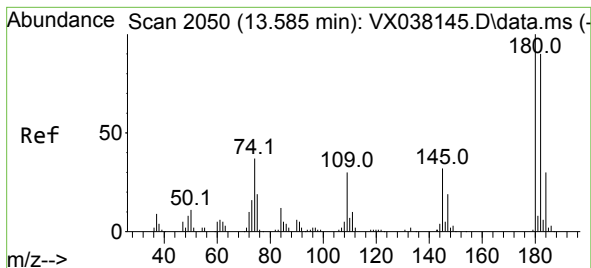
Tgt Ion: 98 Resp: 111374  
Ion Ratio Lower Upper  
98 100  
100 62.4 51.6 77.4



#77  
t-1,4-Dichloro-2-butene  
Concen: 47.136 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX038153.D  
Acq: 07 Oct 2023 02:56

Tgt Ion: 75 Resp: 30826  
Ion Ratio Lower Upper  
75 100  
53 0.0 53.9 161.7#  
89 0.0 22.1 66.1#





#89

1,2,4-Trichlorobenzene

Concen: 0.257 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.006 min

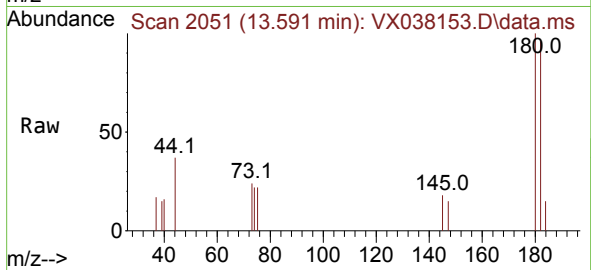
Lab File: VX038153.D

Acq: 07 Oct 2023 02:56

Instrument :

MSVOA\_X

ClientSampleId :



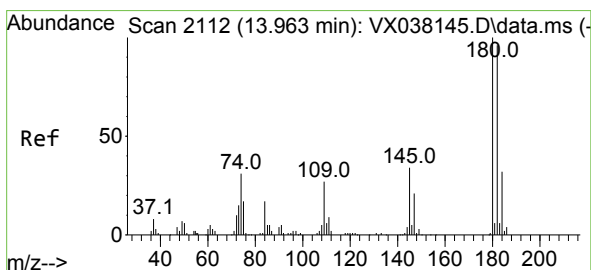
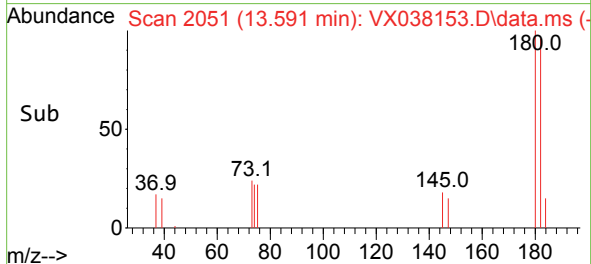
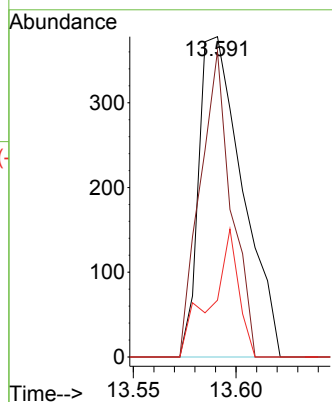
Tgt Ion:180 Resp: 560

Ion Ratio Lower Upper

180 100

182 68.2 75.6 113.4#

145 17.5 25.4 38.2#



#92

1,2,3-Trichlorobenzene

Concen: 0.221 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. 0.000 min

Lab File: VX038153.D

Acq: 07 Oct 2023 02:56

Tgt Ion:180 Resp: 471

Ion Ratio Lower Upper

180 100

182 81.1 0.0 190.6

145 16.8 0.0 66.8

