

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX110923\  
 Data File : VX038699.D  
 Acq On : 10 Nov 2023 03:08  
 Operator : JC/MD  
 Sample : 05316-01 50X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 NWB-1978

Quant Time: Nov 10 05:27:12 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X110723W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 08 03:19:07 2023  
 Response via : Initial Calibration

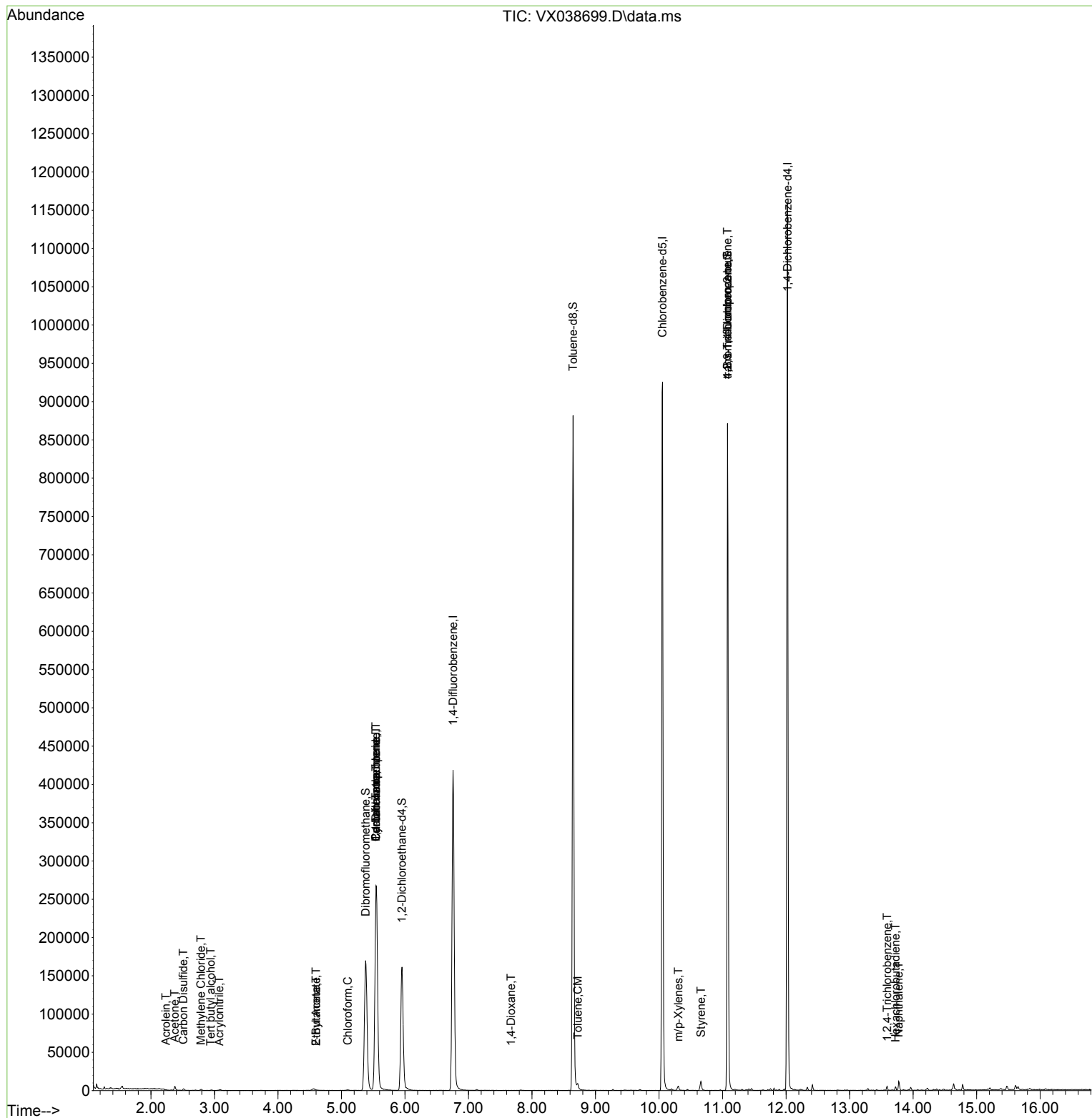
| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) Pentafluorobenzene         | 5.544          | 168  | 280129     | 50.000   | ug/l   | #-0.01   |
| 34) 1,4-Difluorobenzene       | 6.757          | 114  | 470039     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 482450     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 271165     | 50.000   | ug/l   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 162153     | 46.495   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 93.000%  |        |          |
| 35) Dibromofluoromethane      | 5.379          | 113  | 151176     | 44.656   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 89.320%  |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 559656     | 46.199   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 92.400%  |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 236161     | 50.281   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 100.560% |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          | Qvalue |          |
| 11) Tert butyl alcohol        | 2.940          | 59   | 448        | 0.628    | ug/l # | 78       |
| 13) Acrolein                  | 2.233          | 56   | 150        | 0.278    | ug/l # | 72       |
| 15) Acrylonitrile             | 3.075          | 53   | 519        | 0.345    | ug/l # | 92       |
| 16) Acetone                   | 2.373          | 43   | 5456       | 3.715    | ug/l # | 84       |
| 17) Carbon Disulfide          | 2.508          | 76   | 2470       | 0.356    | ug/l   | 96       |
| 20) Methylene Chloride        | 2.788          | 84   | 728        | 0.246    | ug/l # | 83       |
| 25) 2-Butanone                | 4.599          | 43   | 1244       | 0.585    | ug/l # | 51       |
| 30) Chloroform                | 5.099          | 83   | 1185       | 0.216    | ug/l   | 87       |
| 31) Cyclohexane               | 5.544          | 56   | 4781       | 1.239    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.544          | 75   | 18960      | 4.509    | ug/l # | 51       |
| 37) Ethyl Acetate             | 4.599          | 43   | 1244       | 0.290    | ug/l # | 69       |
| 38) Carbon Tetrachloride      | 5.544          | 117  | 26340      | 5.603    | ug/l # | 15       |
| 49) 1,4-Dioxane               | 7.671          | 88   | 49         | 0.677    | ug/l # | 12       |
| 52) Toluene                   | 8.720          | 92   | 2222       | 0.280    | ug/l   | 94       |
| 68) m/p-Xylenes               | 10.305         | 106  | 1499       | 0.227    | ug/l   | 92       |
| 70) Styrene                   | 10.659         | 104  | 5950       | 0.562    | ug/l   | 87       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 111499     | 20.762   | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 111499     | 63.191   | ug/l # | 5        |
| 93) 1,2,4-Trichlorobenzene    | 13.591         | 180  | 1512       | 0.248    | ug/l   | 90       |
| 94) Hexachlorobutadiene       | 13.725         | 225  | 834        | 0.317    | ug/l   | 90       |
| 95) Naphthalene               | 13.774         | 128  | 8960       | 0.487    | ug/l   | 97       |
| -----                         |                |      |            |          |        |          |

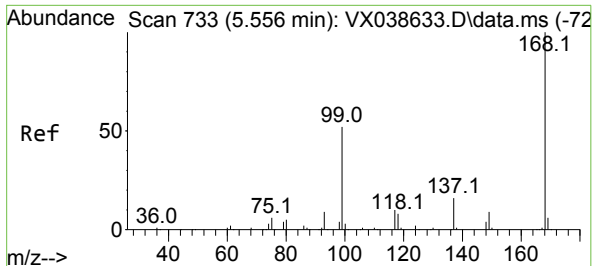
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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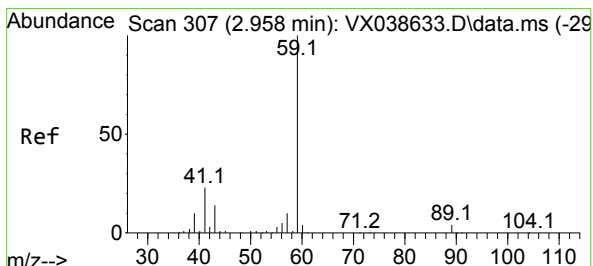
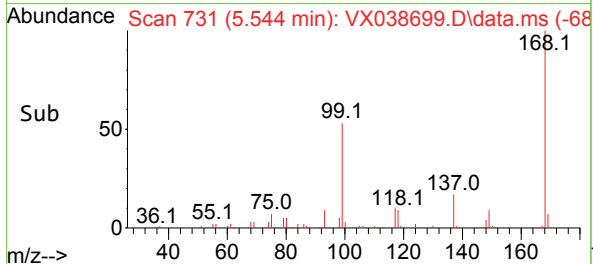
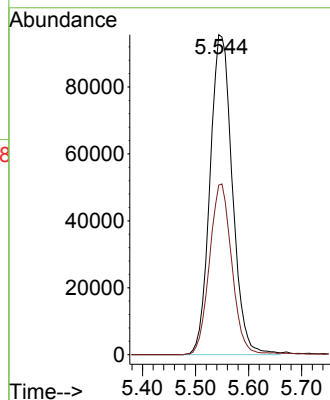
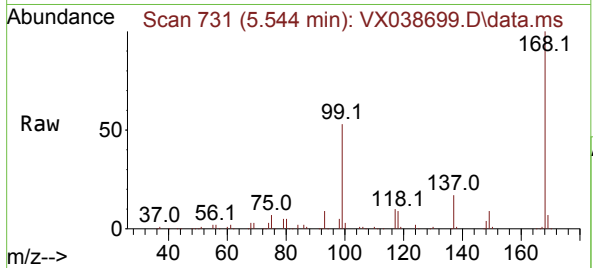




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: VX038699.D  
Acq: 10 Nov 2023 03:08

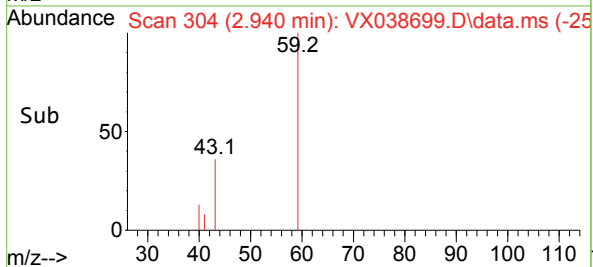
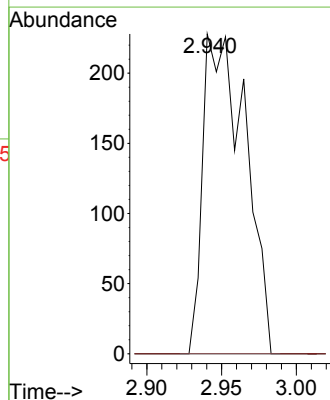
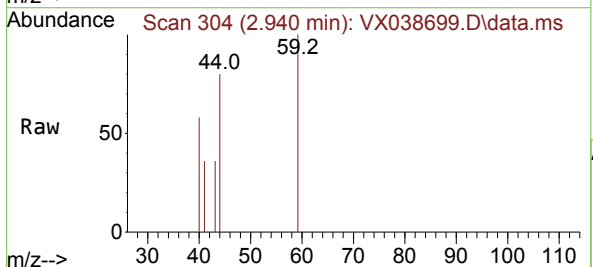
Instrument :  
MSVOA\_X  
ClientSampleId :  
NWB-1978

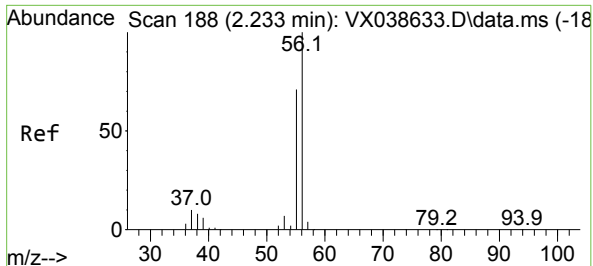
Tgt Ion:168 Resp: 280129  
Ion Ratio Lower Upper  
168 100  
99 53.0 56.6 85.0#



#11  
Tert butyl alcohol  
Concen: 0.628 ug/l  
RT: 2.940 min Scan# 304  
Delta R.T. -0.018 min  
Lab File: VX038699.D  
Acq: 10 Nov 2023 03:08

Tgt Ion: 59 Resp: 448  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#

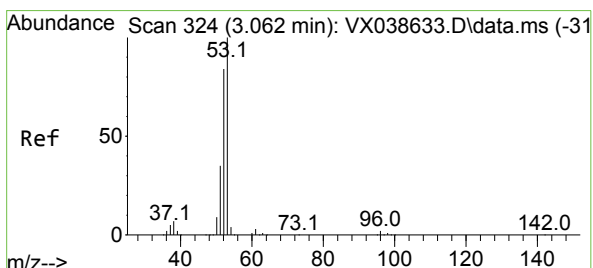
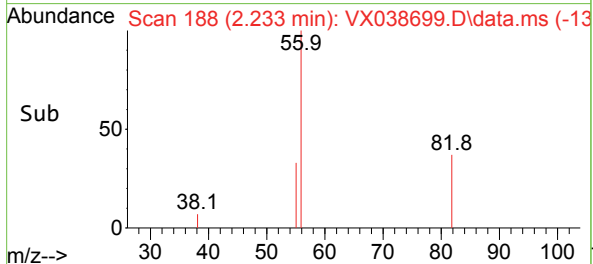
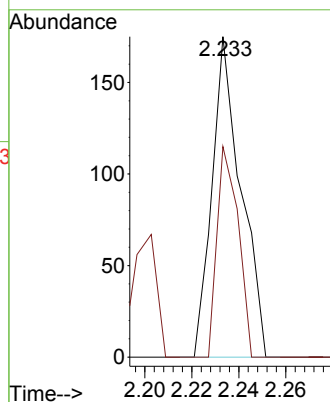
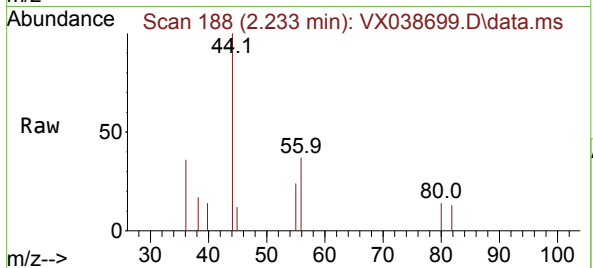




#13  
Acrolein  
Concen: 0.278 ug/l  
RT: 2.233 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX038699.D  
Acq: 10 Nov 2023 03:08

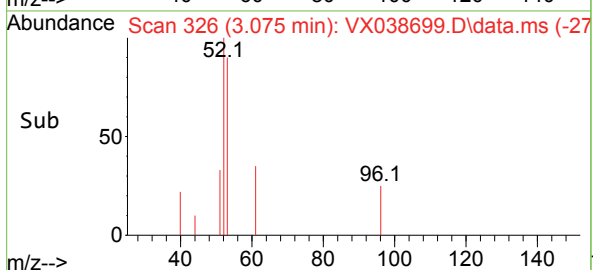
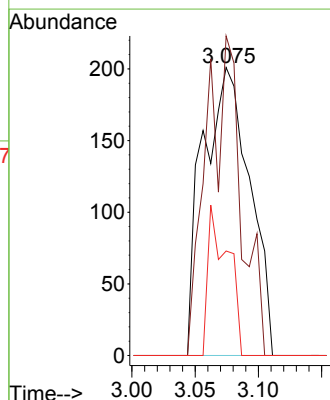
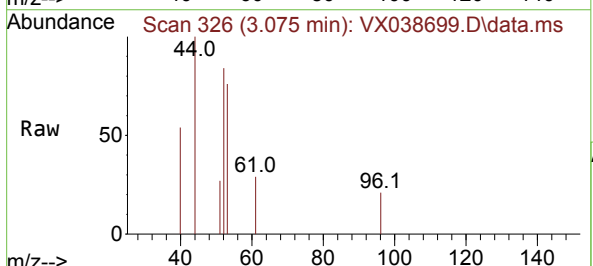
Instrument :  
MSVOA\_X  
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NWB-1978

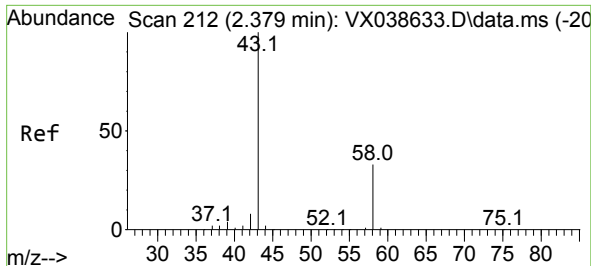
Tgt Ion: 56 Resp: 150  
Ion Ratio Lower Upper  
56 100  
55 48.0 57.1 85.7#



#15  
Acrylonitrile  
Concen: 0.345 ug/l  
RT: 3.075 min Scan# 326  
Delta R.T. 0.012 min  
Lab File: VX038699.D  
Acq: 10 Nov 2023 03:08

Tgt Ion: 53 Resp: 519  
Ion Ratio Lower Upper  
53 100  
52 81.7 66.0 99.0  
51 22.4 29.8 44.6#





#16

Acetone

Concen: 3.715 ug/l

RT: 2.373 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX038699.D

Acq: 10 Nov 2023 03:08

Instrument :

MSVOA\_X

ClientSampleId :

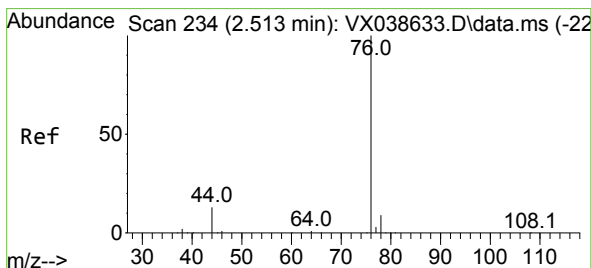
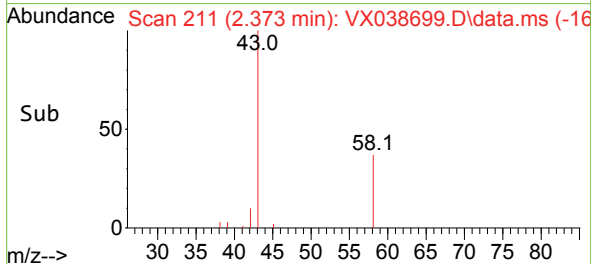
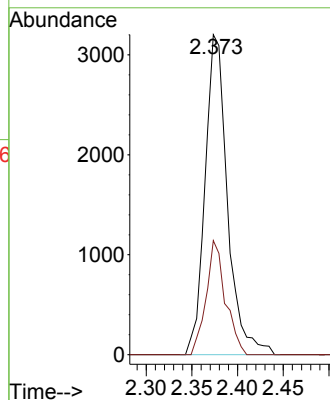
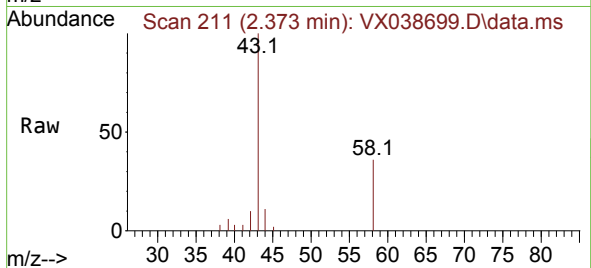
NWB-1978

Tgt Ion: 43 Resp: 5456

Ion Ratio Lower Upper

43 100

58 35.7 21.9 32.9#



#17

Carbon Disulfide

Concen: 0.356 ug/l

RT: 2.508 min Scan# 233

Delta R.T. -0.006 min

Lab File: VX038699.D

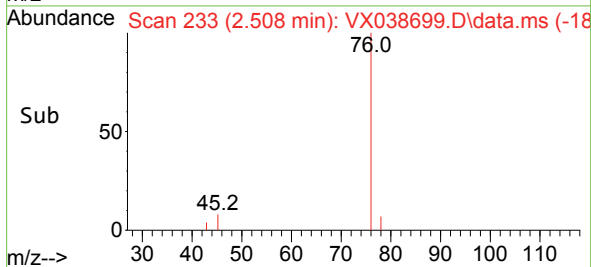
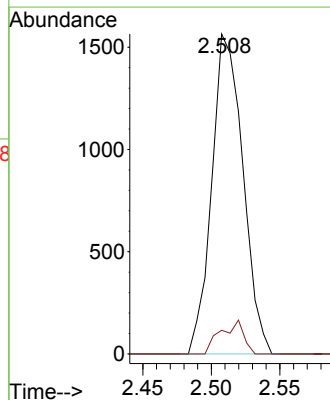
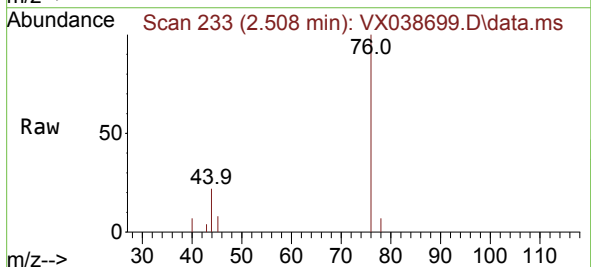
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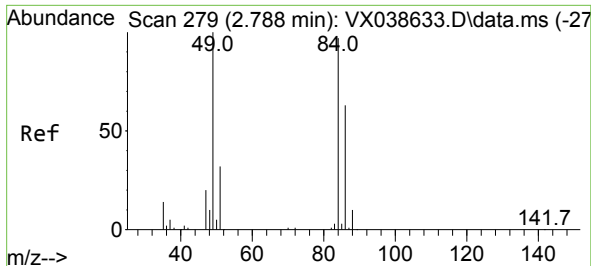
Tgt Ion: 76 Resp: 2470

Ion Ratio Lower Upper

76 100

78 7.4 7.0 10.6

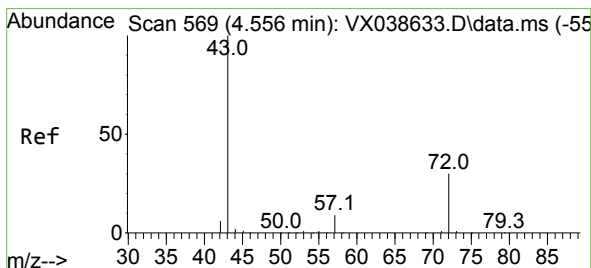
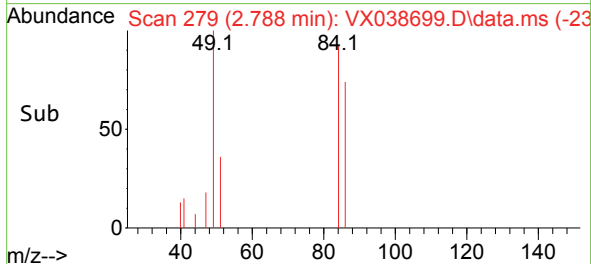
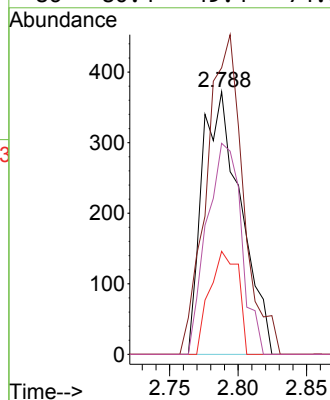
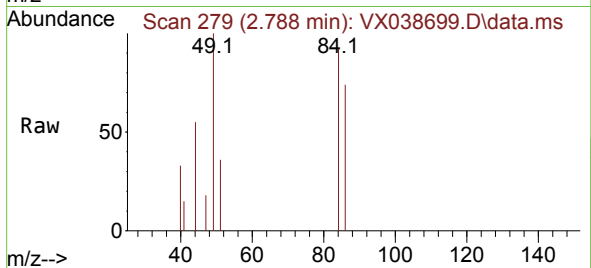




#20  
Methylene Chloride  
Concen: 0.246 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VX038699.D  
Acq: 10 Nov 2023 03:08

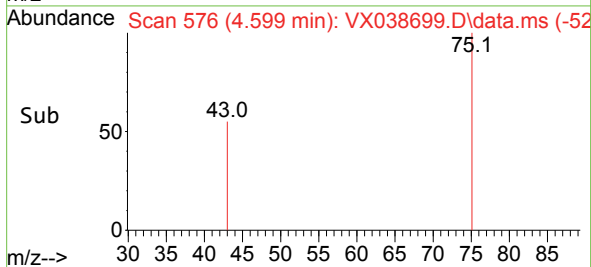
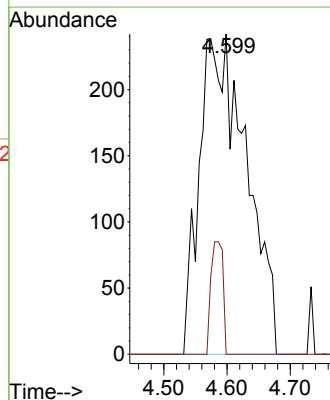
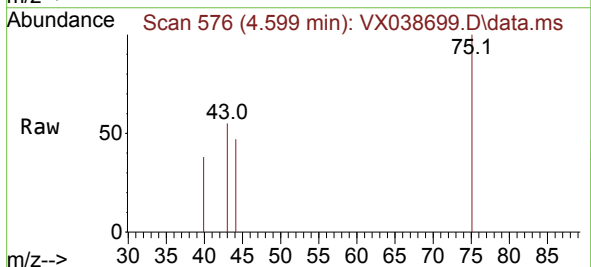
Instrument :  
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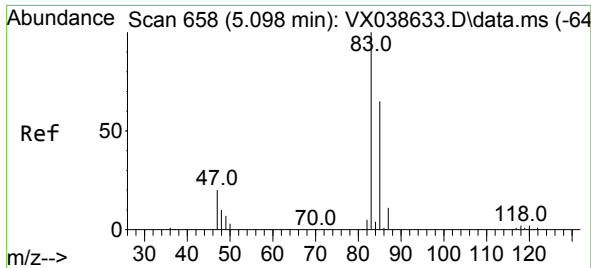
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 728   |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 109.1 | 103.6 | 155.4 |
| 51       | 39.2  | 33.8  | 50.6  |
| 86       | 80.4  | 49.4  | 74.0  |



#25  
2-Butanone  
Concen: 0.585 ug/l  
RT: 4.599 min Scan# 576  
Delta R.T. 0.043 min  
Lab File: VX038699.D  
Acq: 10 Nov 2023 03:08

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1244  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 19.4  | 29.2  |

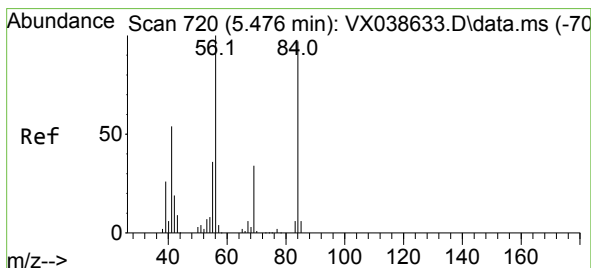
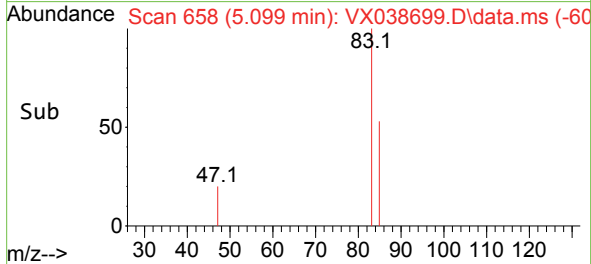
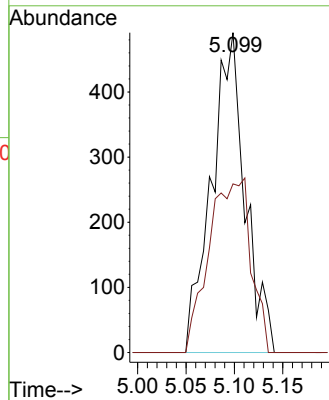
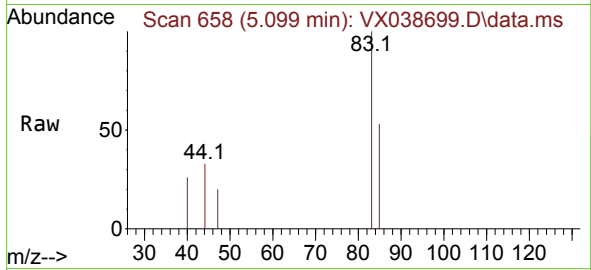




#30  
Chloroform  
Concen: 0.216 ug/l  
RT: 5.099 min Scan# 611  
Delta R.T. 0.000 min  
Lab File: VX038699.D  
Acq: 10 Nov 2023 03:08

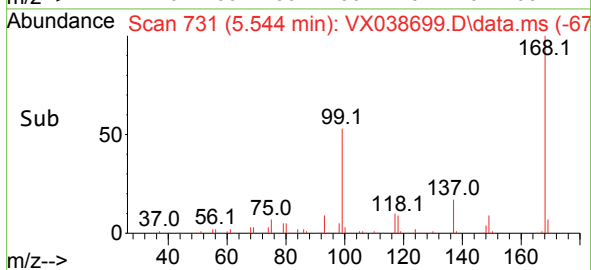
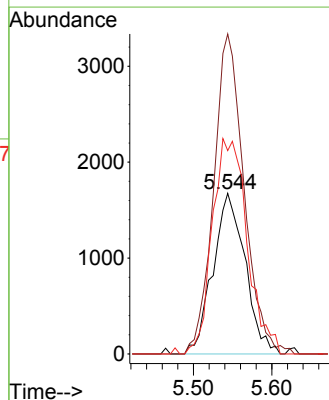
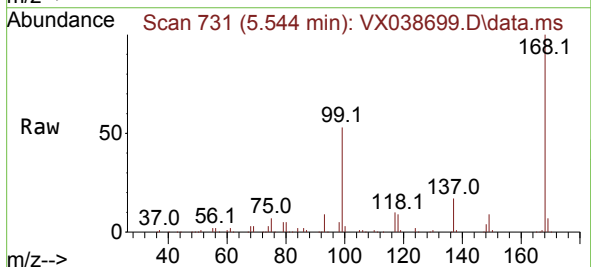
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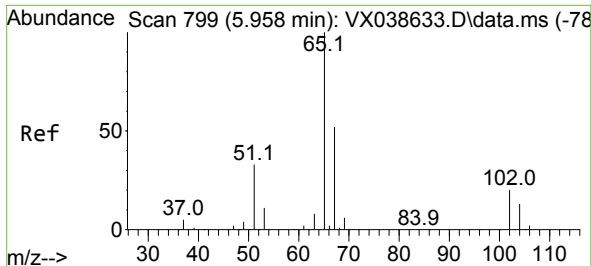
Tgt Ion: 83 Resp: 1185  
Ion Ratio Lower Upper  
83 100  
85 52.7 50.3 75.5



#31  
Cyclohexane  
Concen: 1.239 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. 0.067 min  
Lab File: VX038699.D  
Acq: 10 Nov 2023 03:08

Tgt Ion: 56 Resp: 4781  
Ion Ratio Lower Upper  
56 100  
69 199.2 23.4 35.2#  
84 126.6 65.9 98.9#





#33

1,2-Dichloroethane-d4

Concen: 46.495 ug/l

RT: 5.952 min Scan# 799

Delta R.T. -0.006 min

Lab File: VX038699.D

Acq: 10 Nov 2023 03:08

Instrument :

MSVOA\_X

ClientSampleId :

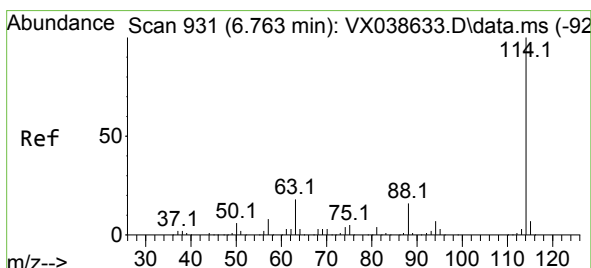
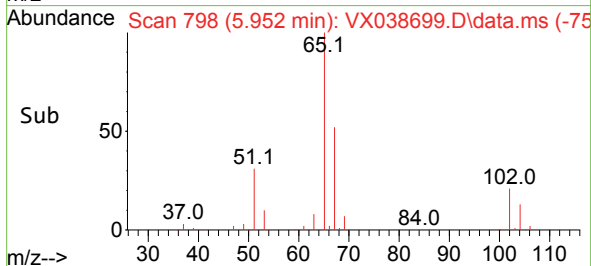
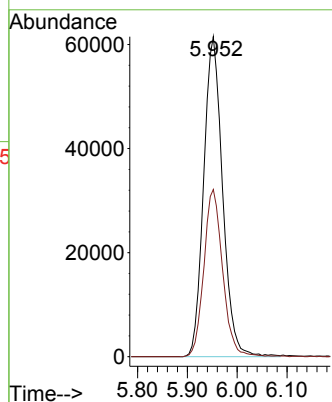
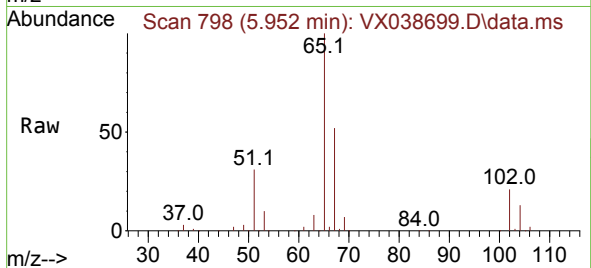
NWB-1978

Tgt Ion: 65 Resp: 162153

Ion Ratio Lower Upper

65 100

67 51.8 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: VX038699.D

Acq: 10 Nov 2023 03:08

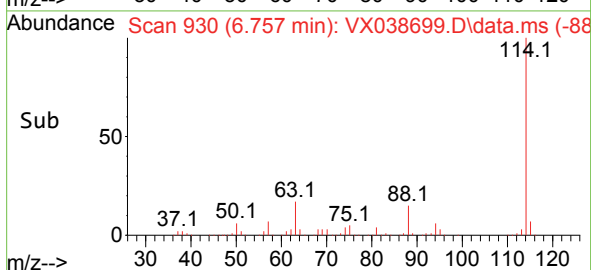
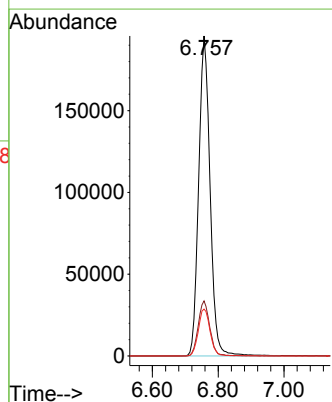
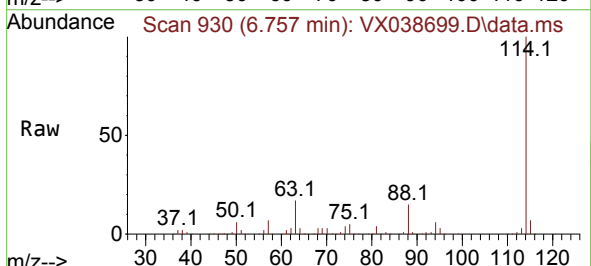
Tgt Ion: 114 Resp: 470039

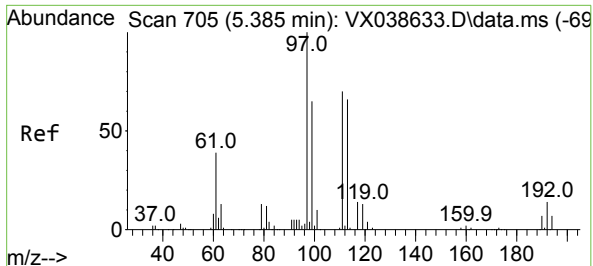
Ion Ratio Lower Upper

114 100

63 17.2 0.0 45.0

88 14.7 0.0 36.6

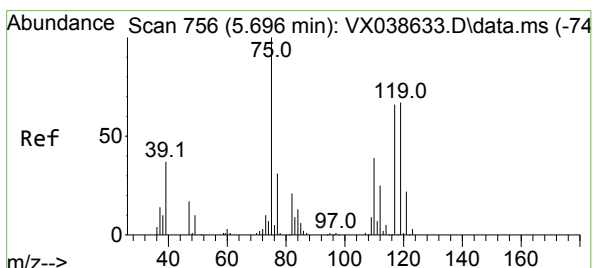
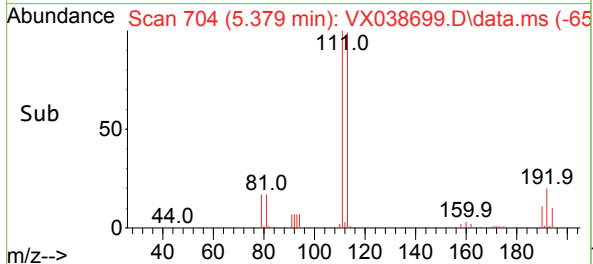
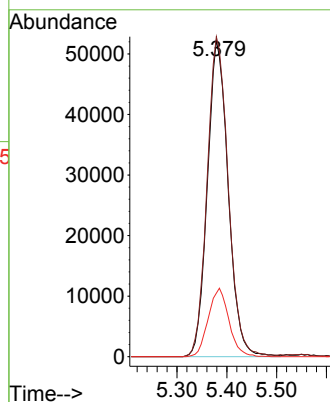
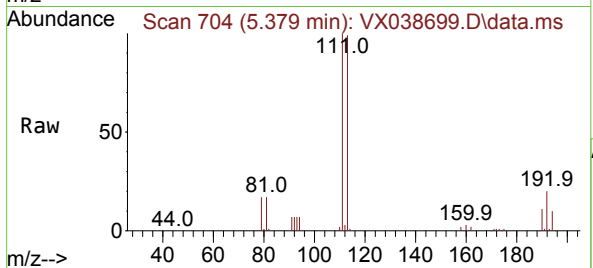




#35  
 Dibromofluoromethane  
 Concen: 44.656 ug/l  
 RT: 5.379 min Scan# 704  
 Delta R.T. -0.006 min  
 Lab File: VX038699.D  
 Acq: 10 Nov 2023 03:08

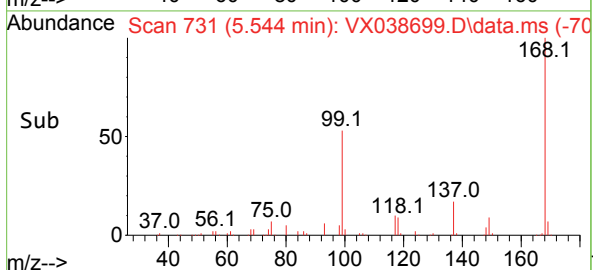
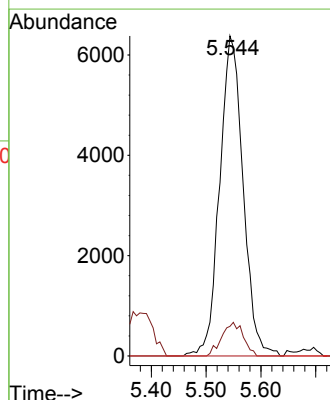
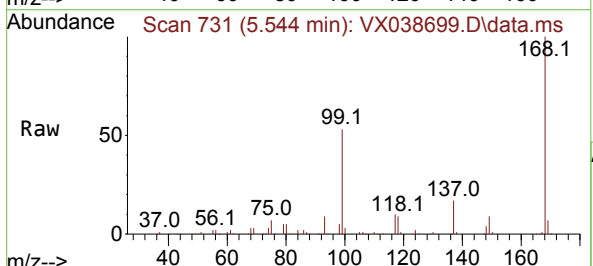
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 NWB-1978

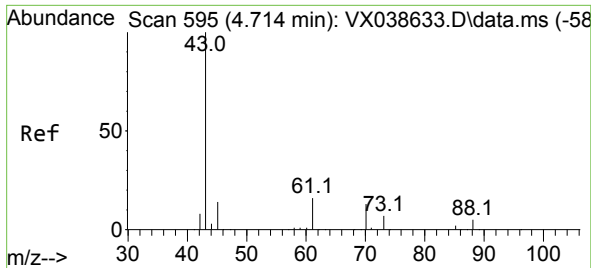
Tgt Ion:113 Resp: 151176  
 Ion Ratio Lower Upper  
 113 100  
 111 103.0 82.9 124.3  
 192 21.6 13.3 19.9#



#36  
 1,1-Dichloropropene  
 Concen: 4.509 ug/l  
 RT: 5.544 min Scan# 731  
 Delta R.T. -0.152 min  
 Lab File: VX038699.D  
 Acq: 10 Nov 2023 03:08

Tgt Ion: 75 Resp: 18960  
 Ion Ratio Lower Upper  
 75 100  
 110 9.6 17.0 50.9#  
 77 0.0 24.7 37.1#

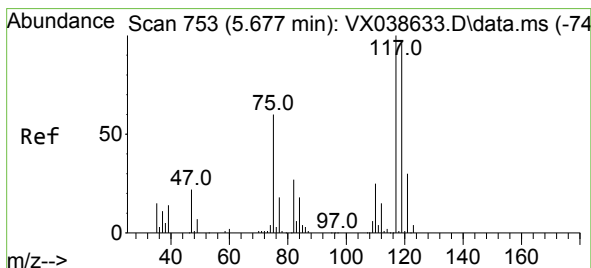
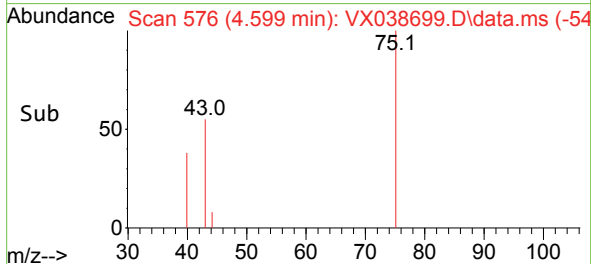
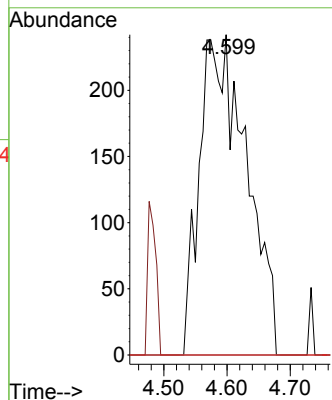
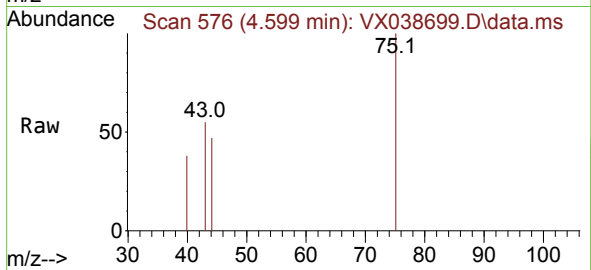




#37  
Ethyl Acetate  
Concen: 0.290 ug/l  
RT: 4.599 min Scan# 51  
Delta R.T. -0.116 min  
Lab File: VX038699.D  
Acq: 10 Nov 2023 03:08

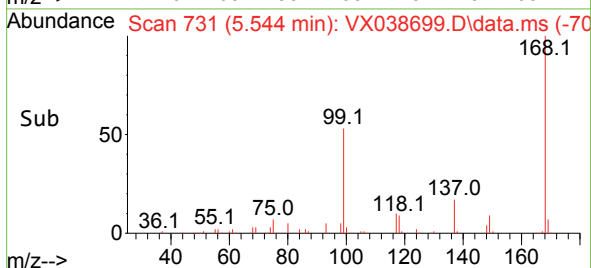
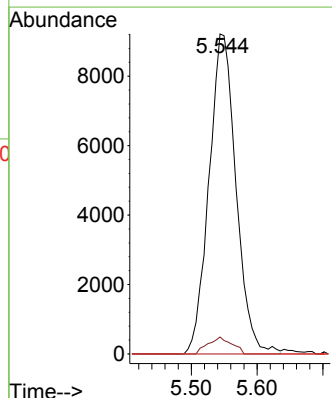
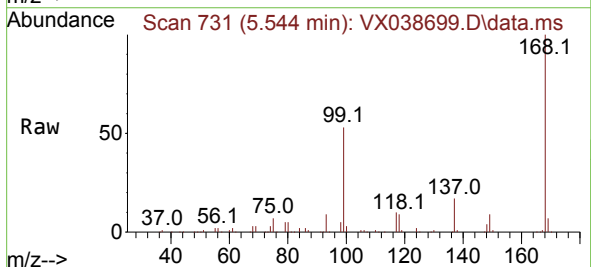
Instrument :  
MSVOA\_X  
ClientSampleId :  
NWB-1978

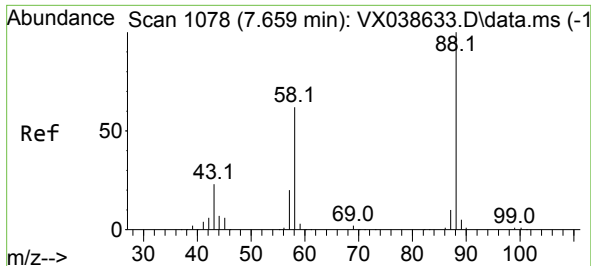
Tgt Ion: 43 Resp: 1244  
Ion Ratio Lower Upper  
43 100  
61 0.0 10.6 16.0#  
70 0.0 8.3 12.5#



#38  
Carbon Tetrachloride  
Concen: 5.603 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. -0.134 min  
Lab File: VX038699.D  
Acq: 10 Nov 2023 03:08

Tgt Ion: 117 Resp: 26340  
Ion Ratio Lower Upper  
117 100  
119 5.3 78.2 117.2#  
121 0.0 24.4 36.6#

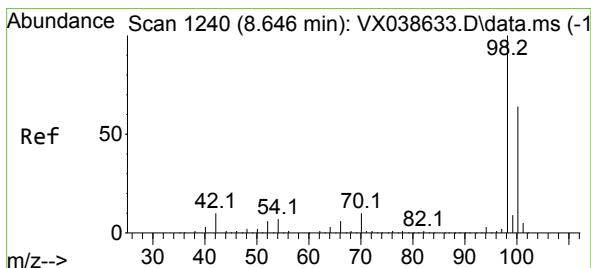
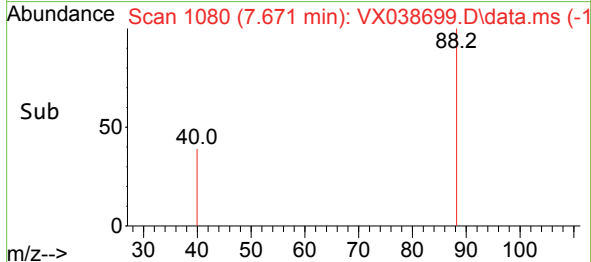
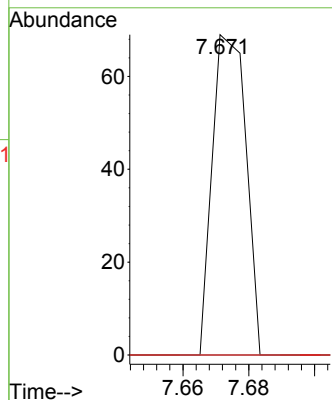
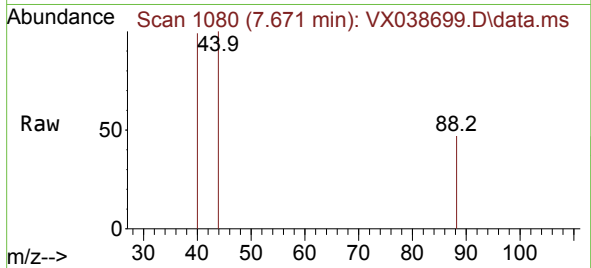




#49  
1,4-Dioxane  
Concen: 0.677 ug/l  
RT: 7.671 min Scan# 1080  
Delta R.T. 0.012 min  
Lab File: VX038699.D  
Acq: 10 Nov 2023 03:08

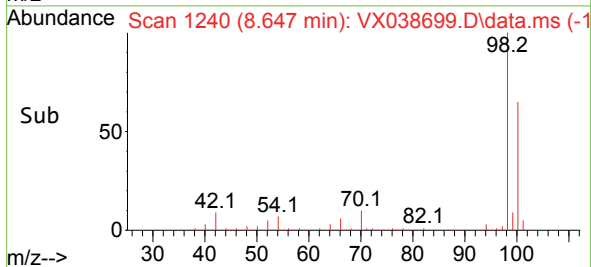
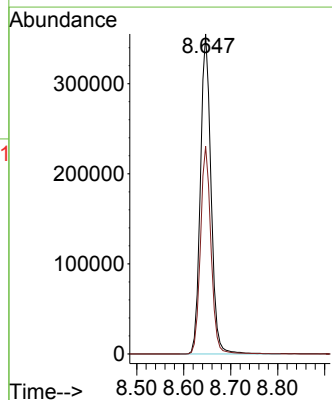
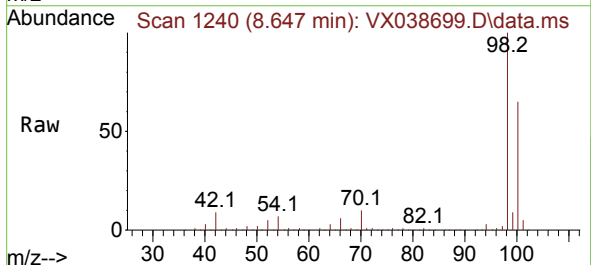
Instrument :  
MSVOA\_X  
ClientSampleId :  
NWB-1978

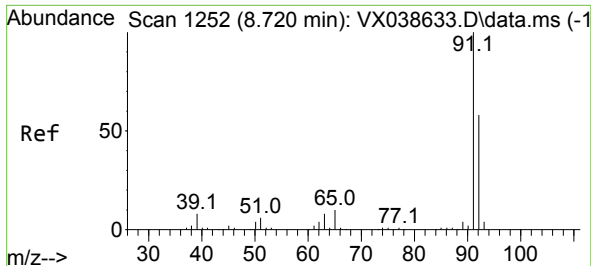
Tgt Ion: 88 Resp: 49  
Ion Ratio Lower Upper  
88 100  
43 0.0 0.0 0.0  
58 0.0 60.1 90.1#



#50  
Toluene-d8  
Concen: 46.199 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX038699.D  
Acq: 10 Nov 2023 03:08

Tgt Ion: 98 Resp: 559656  
Ion Ratio Lower Upper  
98 100  
100 64.3 53.1 79.7

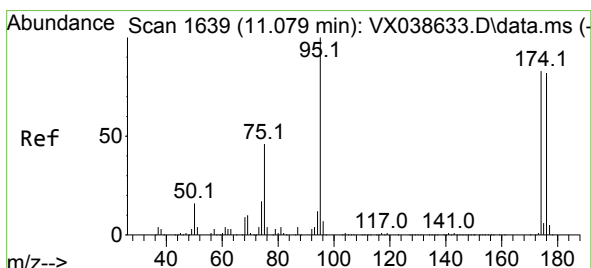
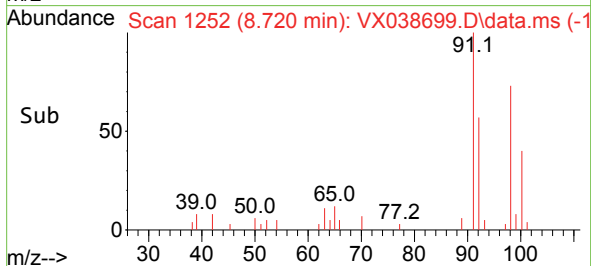
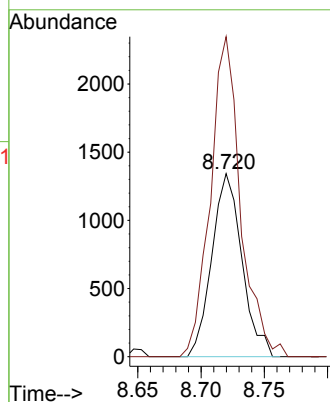
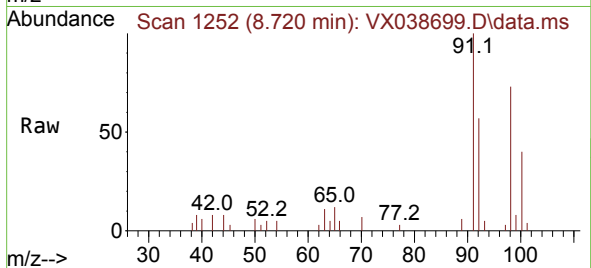




#52  
Toluene  
Concen: 0.280 ug/l  
RT: 8.720 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX038699.D  
Acq: 10 Nov 2023 03:08

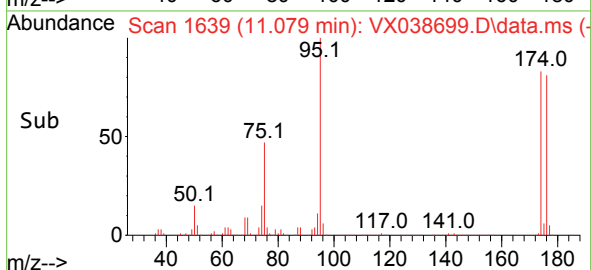
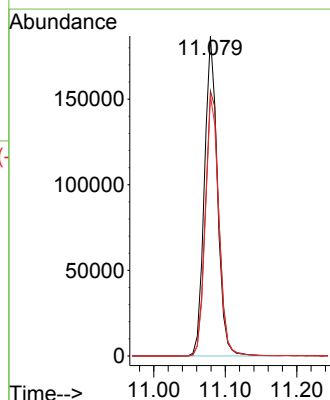
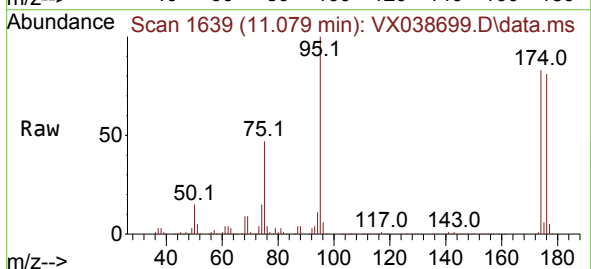
Instrument :  
MSVOA\_X  
ClientSampleId :  
NWB-1978

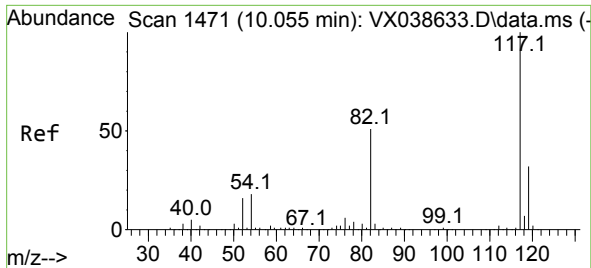
Tgt Ion: 92 Resp: 2222  
Ion Ratio Lower Upper  
92 100  
91 175.3 134.2 201.2



#62  
4-Bromofluorobenzene  
Concen: 50.281 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX038699.D  
Acq: 10 Nov 2023 03:08

Tgt Ion: 95 Resp: 236161  
Ion Ratio Lower Upper  
95 100  
174 87.4 0.0 135.6  
176 84.1 0.0 131.0

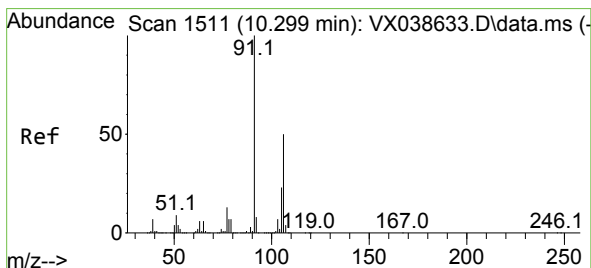
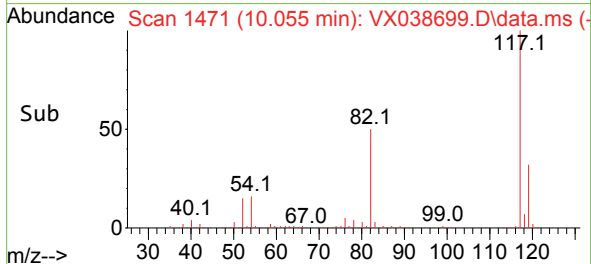
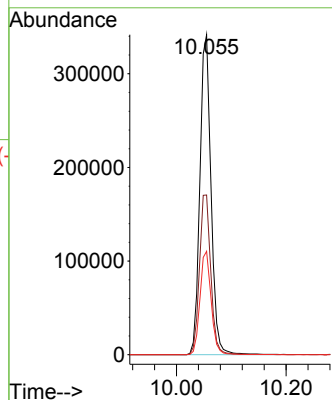
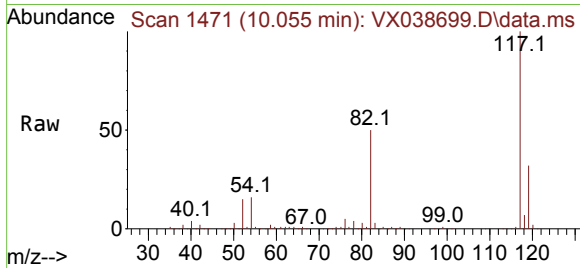




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX038699.D  
Acq: 10 Nov 2023 03:08

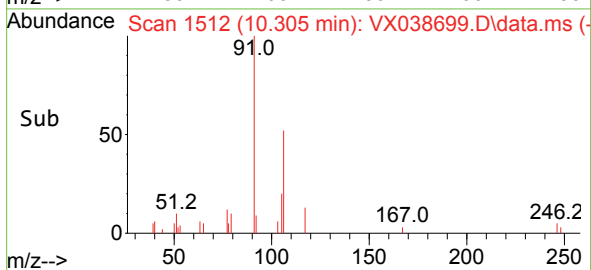
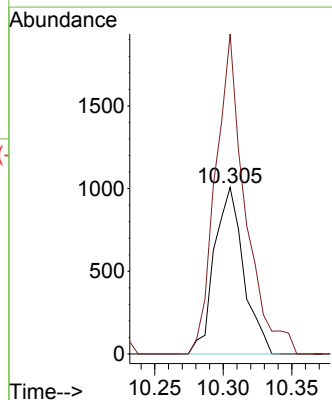
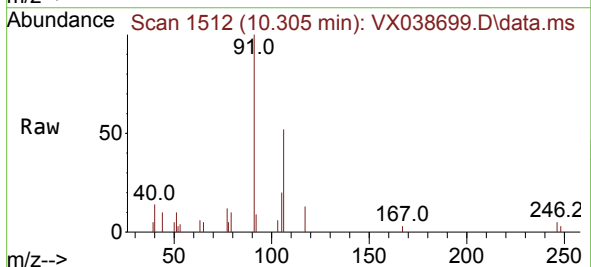
Instrument :  
MSVOA\_X  
ClientSampleId :  
NWB-1978

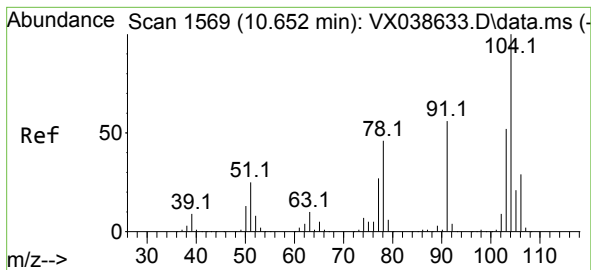
Tgt Ion:117 Resp: 482450  
Ion Ratio Lower Upper  
117 100  
82 49.9 46.2 69.4  
119 32.3 25.5 38.3



#68  
m/p-Xylenes  
Concen: 0.227 ug/l  
RT: 10.305 min Scan# 1512  
Delta R.T. 0.006 min  
Lab File: VX038699.D  
Acq: 10 Nov 2023 03:08

Tgt Ion:106 Resp: 1499  
Ion Ratio Lower Upper  
106 100  
91 194.7 165.5 248.3





#70

Styrene

Concen: 0.562 ug/l

RT: 10.659 min Scan# 1569

Delta R.T. 0.006 min

Lab File: VX038699.D

Acq: 10 Nov 2023 03:08

Instrument :

MSVOA\_X

ClientSampleId :

NWB-1978

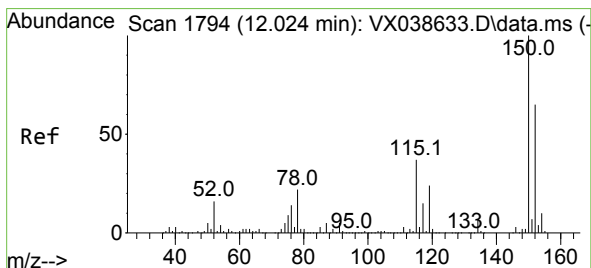
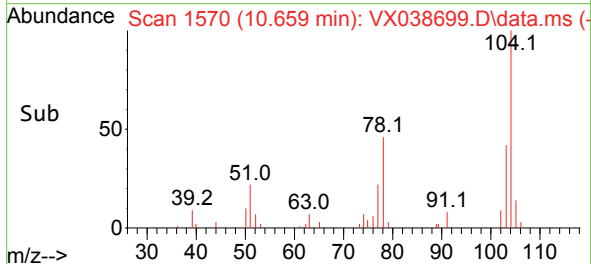
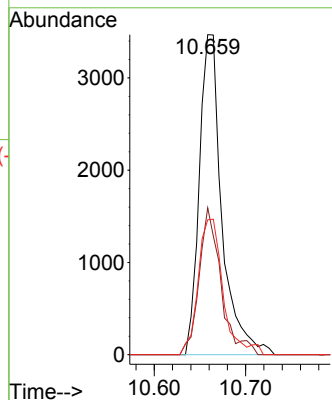
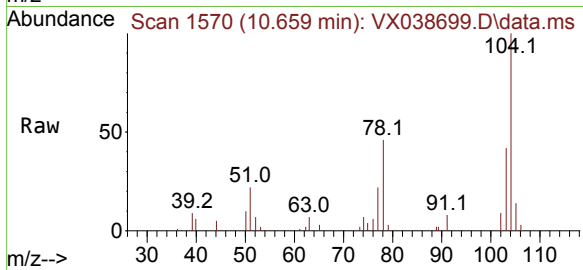
Tgt Ion:104 Resp: 5950

Ion Ratio Lower Upper

104 100

78 44.2 43.6 65.4

103 46.8 43.6 65.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX038699.D

Acq: 10 Nov 2023 03:08

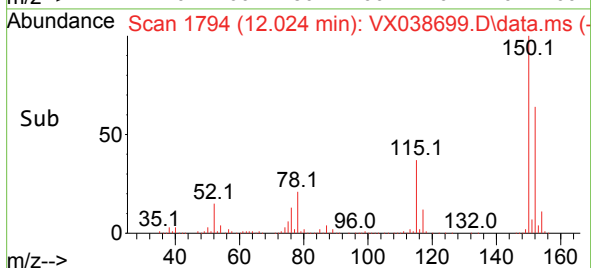
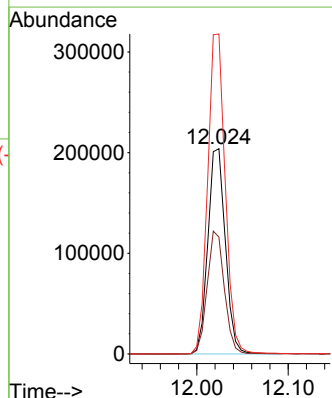
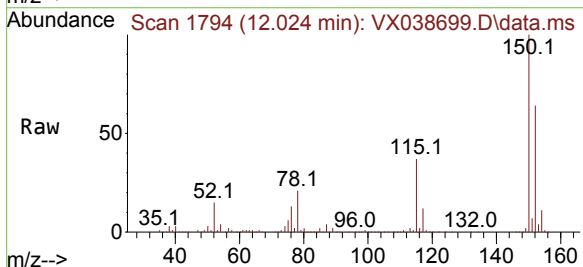
Tgt Ion:152 Resp: 271165

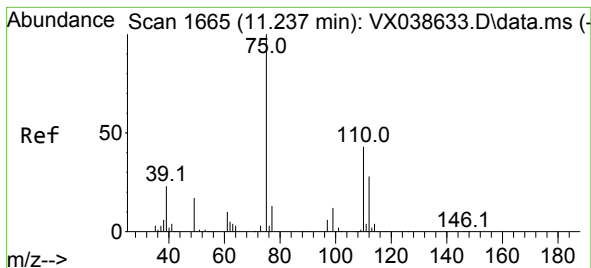
Ion Ratio Lower Upper

152 100

115 58.8 43.3 129.9

150 156.5 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 20.762 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.158 min

Lab File: VX038699.D

Acq: 10 Nov 2023 03:08

Instrument :

MSVOA\_X

ClientSampleId :

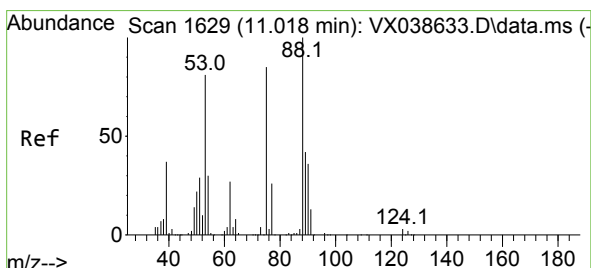
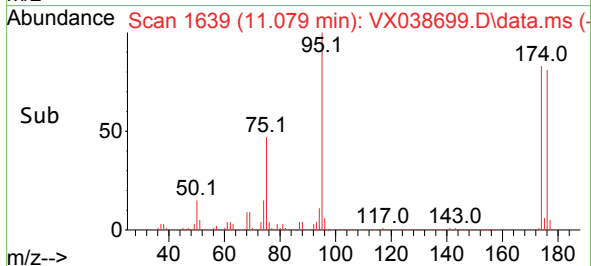
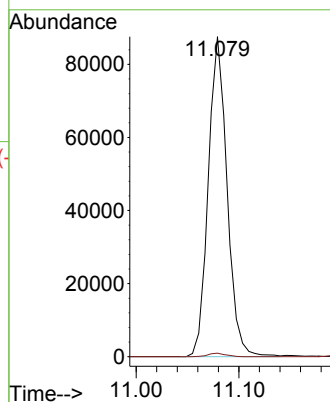
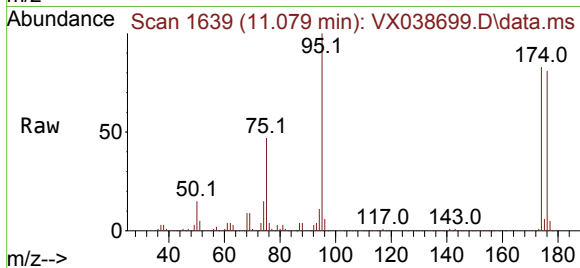
NWB-1978

Tgt Ion: 75 Resp: 111499

Ion Ratio Lower Upper

75 100

77 1.0 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.191 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX038699.D

Acq: 10 Nov 2023 03:08

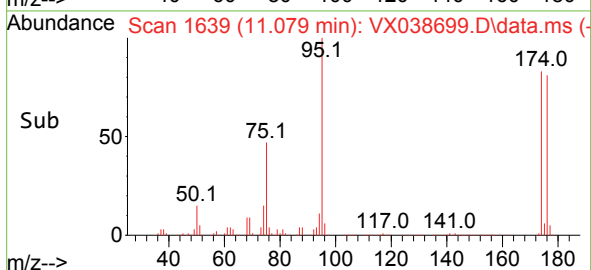
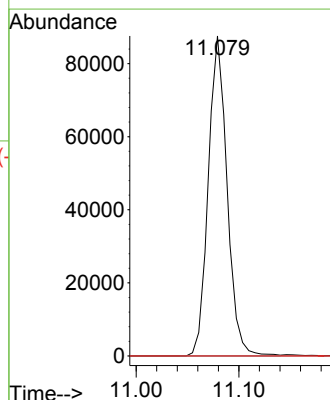
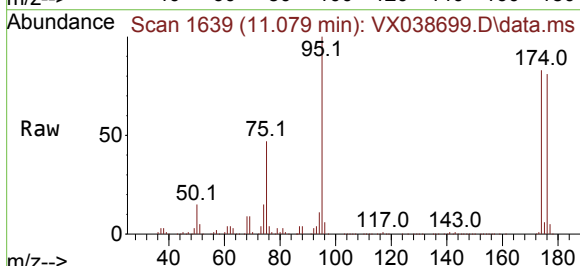
Tgt Ion: 75 Resp: 111499

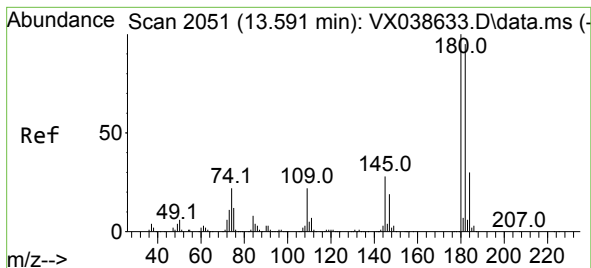
Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#





#93

1,2,4-Trichlorobenzene

Concen: 0.248 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. 0.000 min

Lab File: VX038699.D

Acq: 10 Nov 2023 03:08

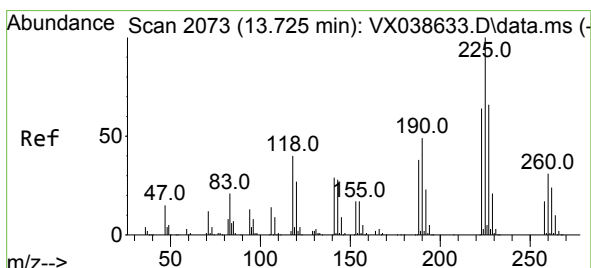
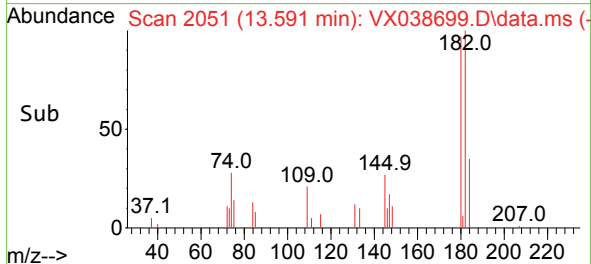
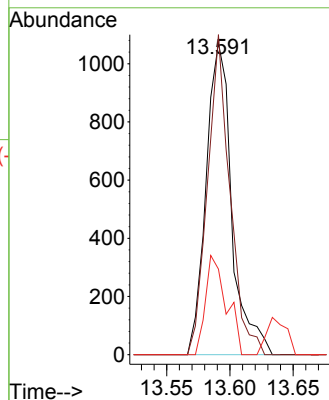
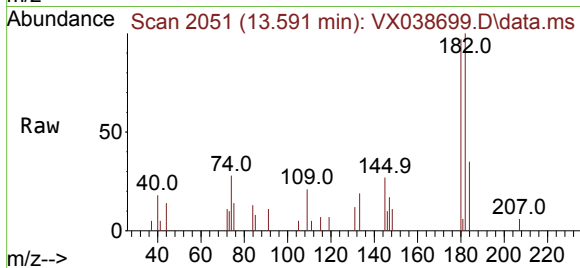
Instrument :

MSVOA\_X

ClientSampleId :

NWB-1978

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 1512        |
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 89.6  | 48.3 144.8  |
| 145         | 26.0  | 18.0 54.0   |



#94

Hexachlorobutadiene

Concen: 0.317 ug/l

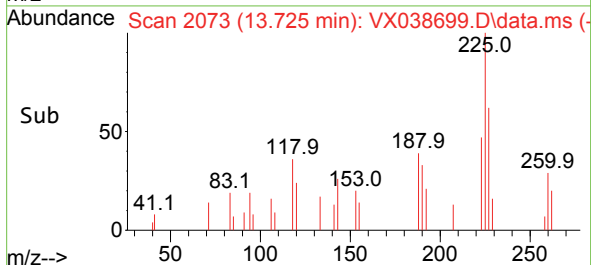
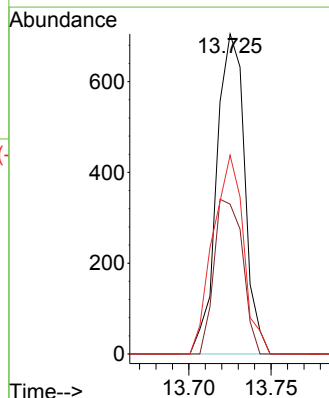
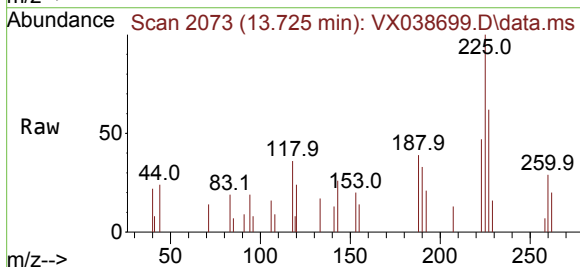
RT: 13.725 min Scan# 2073

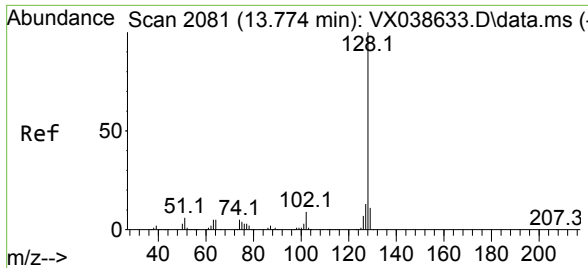
Delta R.T. 0.000 min

Lab File: VX038699.D

Acq: 10 Nov 2023 03:08

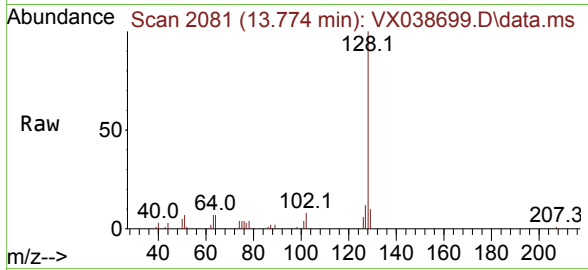
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:225 | Resp: | 834         |
| Ion         | Ratio | Lower Upper |
| 225         | 100   |             |
| 223         | 49.2  | 31.1 93.2   |
| 227         | 67.9  | 32.5 97.5   |





#95  
Naphthalene  
Concen: 0.487 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. 0.000 min  
Lab File: VX038699.D  
Acq: 10 Nov 2023 03:08

Instrument :  
MSVOA\_X  
ClientSampleId :  
NWB-1978



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 8960  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 11.4  | 10.3  | 15.5  |
| 129      | 10.3  | 8.8   | 13.2  |

