

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD071923\  
 Data File : VD076798.D  
 Acq On : 19 Jul 2023 18:42  
 Operator : KP/SY  
 Sample : 03655-01RE  
 Misc : 5.08G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MARION-COMPRE

Quant Time: Jul 20 05:01:52 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071423S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 17 08:07:52 2023  
 Response via : Initial Calibration

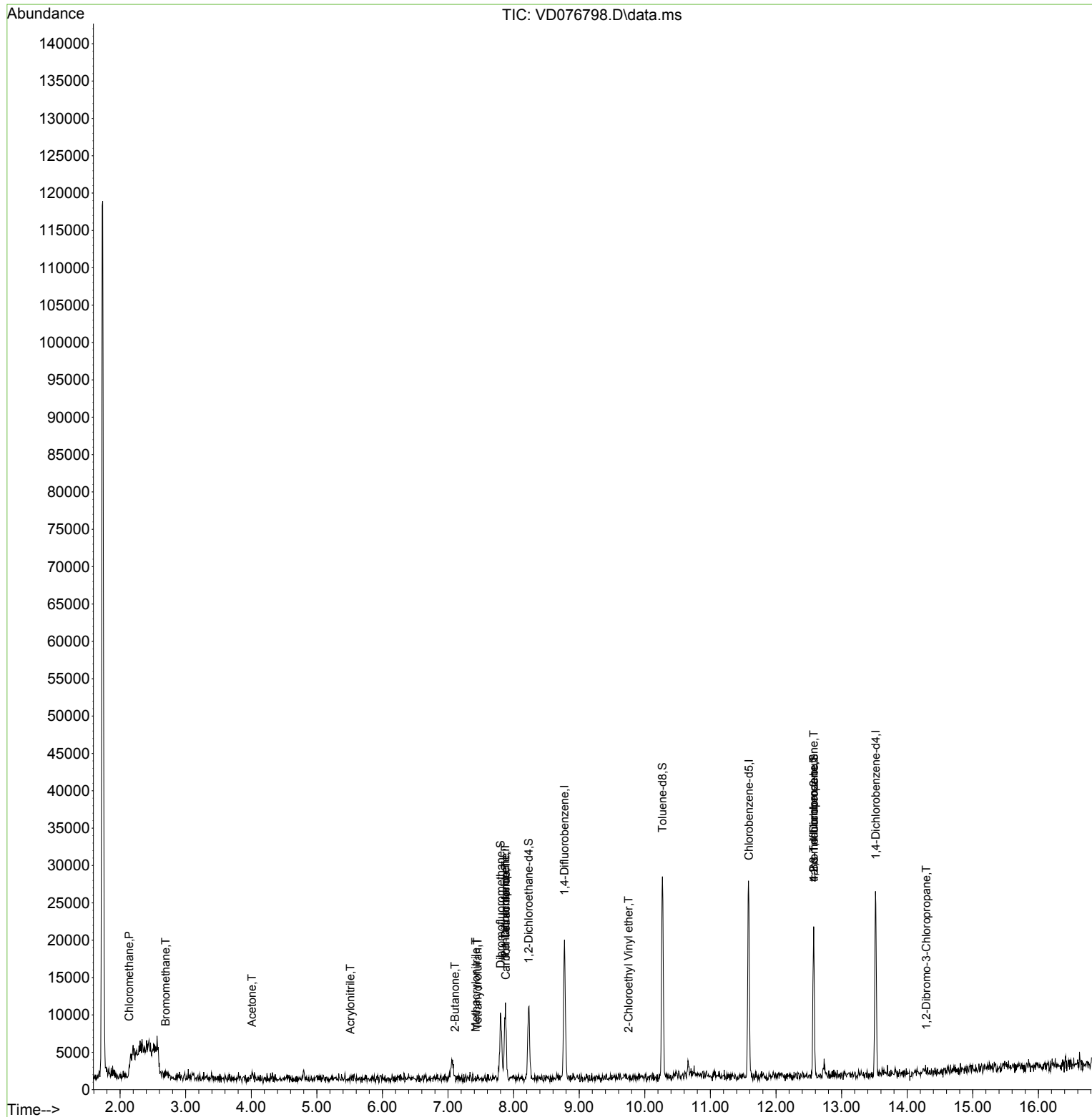
| Compound                      | R.T. QIon |       | Response | Conc      | Units       | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|-------------|----------|
| -----                         |           |       |          |           |             |          |
| Internal Standards            |           |       |          |           |             |          |
| 1) Pentafluorobenzene         | 7.875     | 168   | 7747     | 50.000    | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.775     | 114   | 16539    | 50.000    | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 11.587    | 117   | 16619    | 50.000    | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.522    | 152   | 7190     | 50.000    | ug/l        | 0.00     |
| System Monitoring Compounds   |           |       |          |           |             |          |
| 33) 1,2-Dichloroethane-d4     | 8.228     | 65    | 7192     | 93.206    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | = 186.420%# |          |
| 35) Dibromofluoromethane      | 7.799     | 113   | 6748     | 64.927    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | = 129.860%  |          |
| 50) Toluene-d8                | 10.269    | 98    | 19926    | 53.593    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 58 - 134 | Recovery  | = 107.180%  |          |
| 62) 4-Bromofluorobenzene      | 12.575    | 95    | 6207     | 51.605    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 30 - 143 | Recovery  | = 103.200%  |          |
| Target Compounds              |           |       |          |           |             |          |
|                               |           |       |          |           |             | Qvalue   |
| 3) Chloromethane              | 2.140     | 50    | 265      | 2.536     | ug/l #      | 41       |
| 5) Bromomethane               | 2.693     | 94    | 194      | 1.693     | ug/l #      | 29       |
| 15) Acrylonitrile             | 5.511     | 53    | 61       | 2.910     | ug/l #      | 18       |
| 16) Acetone                   | 4.011     | 43    | 395      | 21.435    | ug/l #      | 32       |
| 20) Methylene Chloride        | 4.793     | 84    | 357      | Below Cal | #           | 55       |
| 25) 2-Butanone                | 7.105     | 43    | 56       | 2.271     | ug/l #      | 37       |
| 29) Tetrahydrofuran           | 7.452     | 42    | 84       | 5.765     | ug/l #      | 23       |
| 36) 1,1-Dichloropropene       | 7.875     | 75    | 438      | 3.225     | ug/l #      | 39       |
| 38) Carbon Tetrachloride      | 7.881     | 117   | 795      | 6.113     | ug/l #      | 11       |
| 41) Methacrylonitrile         | 7.422     | 41    | 76       | 2.049     | ug/l #      | 17       |
| 58) 2-Chloroethyl Vinyl ether | 9.751     | 63    | 84       | 1.989     | ug/l #      | 43       |
| 76) 1,2,3-Trichloropropane    | 12.575    | 75    | 2958     | 43.261    | ug/l #      | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.575    | 75    | 2958     | 92.070    | ug/l #      | 17       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.292    | 75    | 60       | 3.757     | ug/l #      | 1        |
| -----                         |           |       |          |           |             |          |

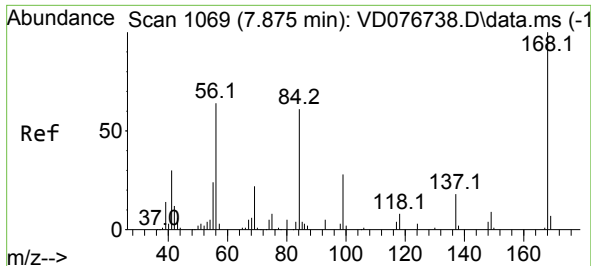
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jul 17 08:07:52 2023  
Response via : Initial Calibration

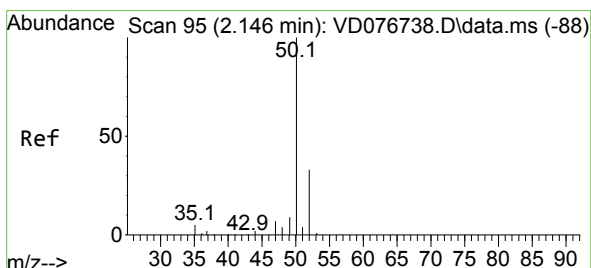
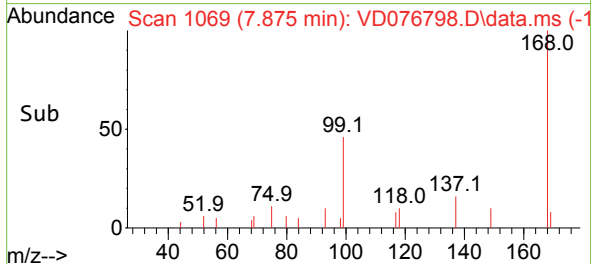
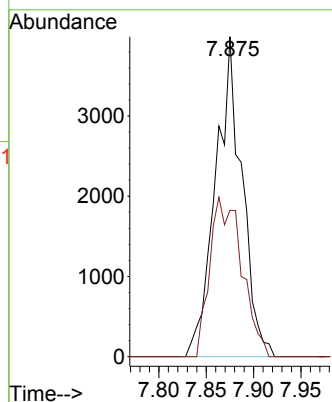
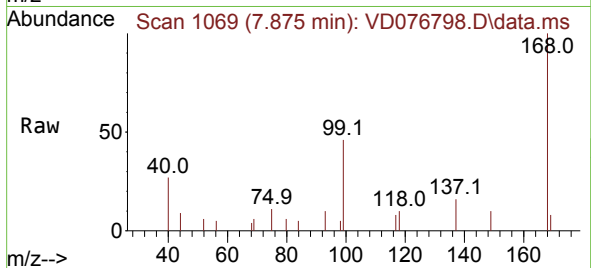




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. 0.000 min  
Lab File: VD076798.D  
Acq: 19 Jul 2023 18:42

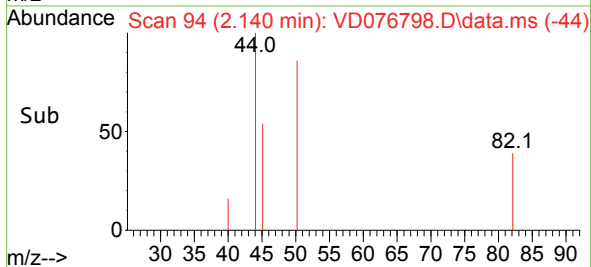
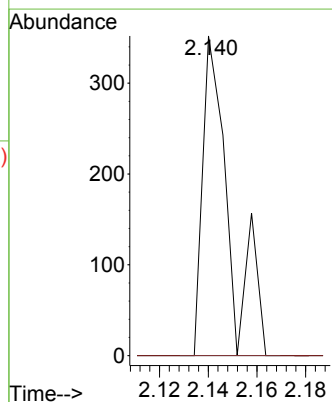
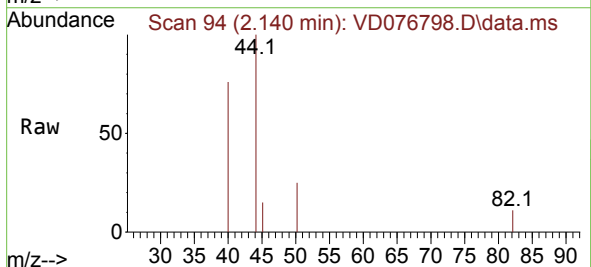
Instrument :  
MSVOA\_D  
ClientSampleId :  
MARION-COMPRE

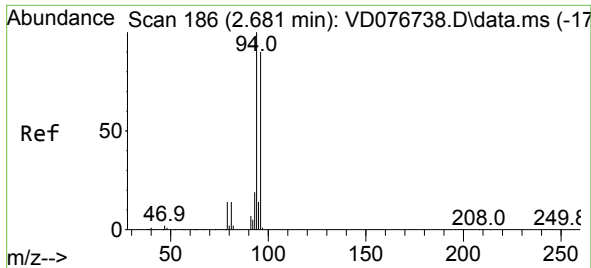
Tgt Ion:168 Resp: 7747  
Ion Ratio Lower Upper  
168 100  
99 45.7 36.7 55.1



#3  
Chloromethane  
Concen: 2.536 ug/l  
RT: 2.140 min Scan# 94  
Delta R.T. -0.006 min  
Lab File: VD076798.D  
Acq: 19 Jul 2023 18:42

Tgt Ion: 50 Resp: 265  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.6 40.0#

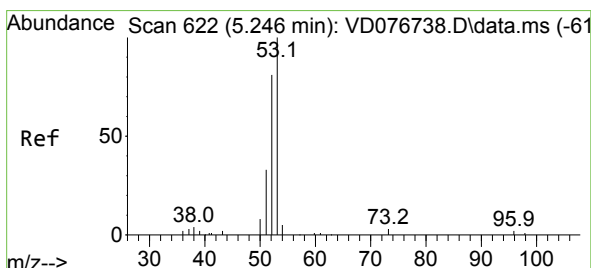
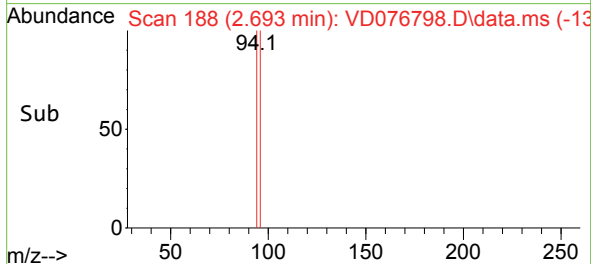
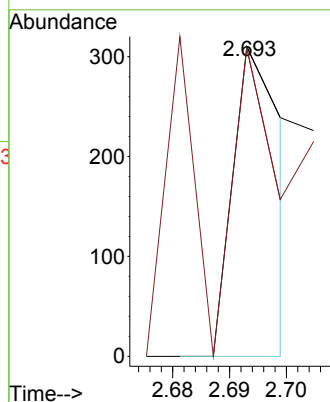
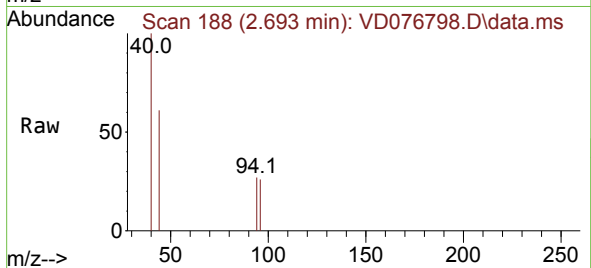




#5  
Bromomethane  
Concen: 1.693 ug/l  
RT: 2.693 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VD076798.D  
Acq: 19 Jul 2023 18:42

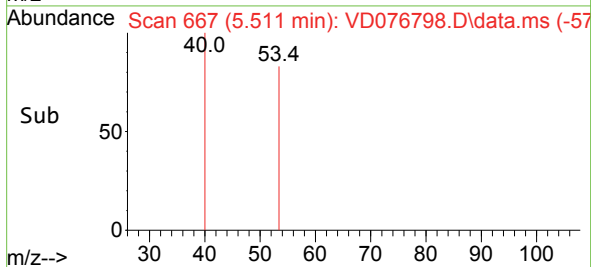
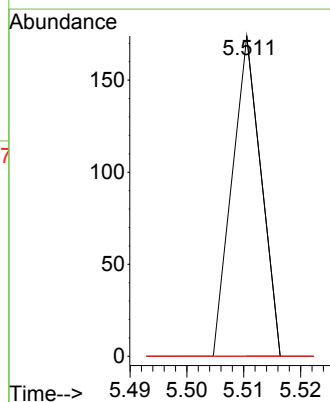
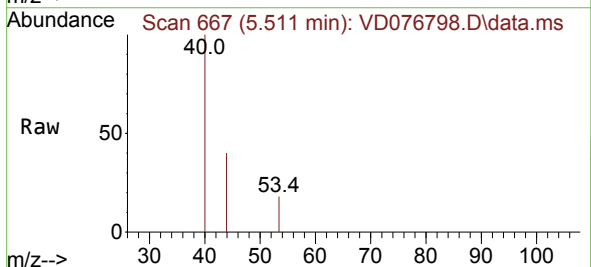
Instrument :  
MSVOA\_D  
ClientSampleId :  
MARION-COMPRE

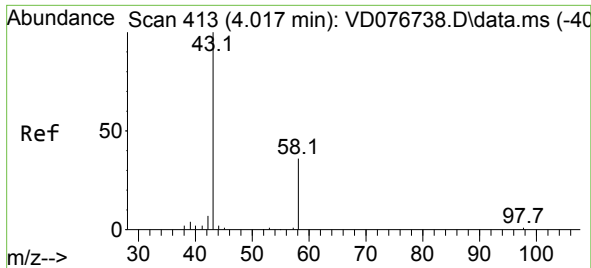
Tgt Ion: 94 Resp: 194  
Ion Ratio Lower Upper  
94 100  
96 163.9 75.8 113.8#



#15  
Acrylonitrile  
Concen: 2.910 ug/l  
RT: 5.511 min Scan# 667  
Delta R.T. 0.265 min  
Lab File: VD076798.D  
Acq: 19 Jul 2023 18:42

Tgt Ion: 53 Resp: 61  
Ion Ratio Lower Upper  
53 100  
52 0.0 65.0 97.4#  
51 0.0 28.3 42.5#

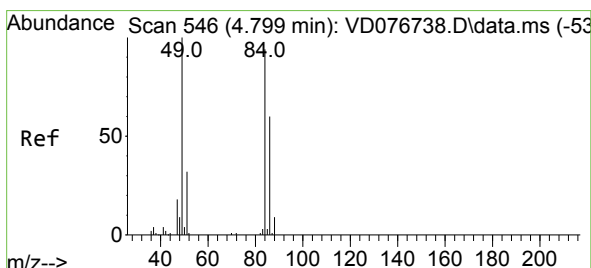
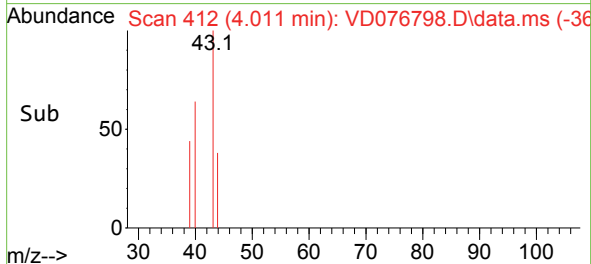
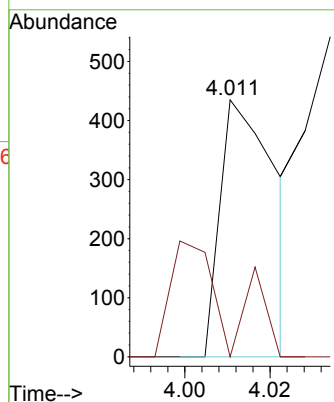
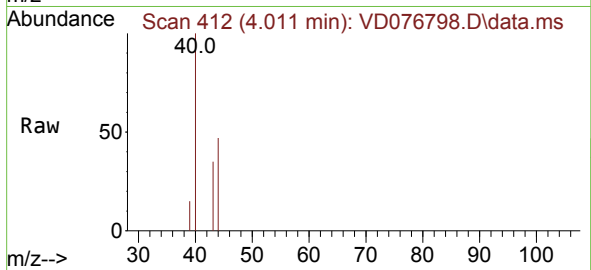




#16  
Acetone  
Concen: 21.435 ug/l  
RT: 4.011 min Scan# 413  
Delta R.T. -0.006 min  
Lab File: VD076798.D  
Acq: 19 Jul 2023 18:42

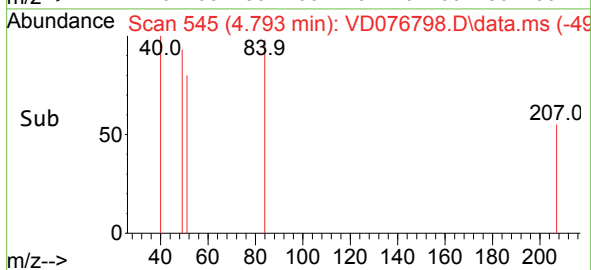
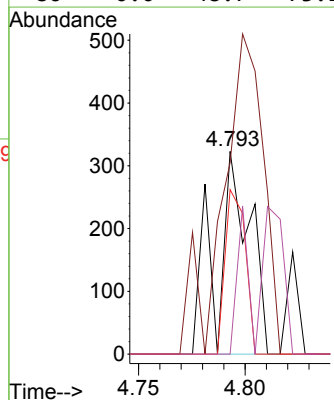
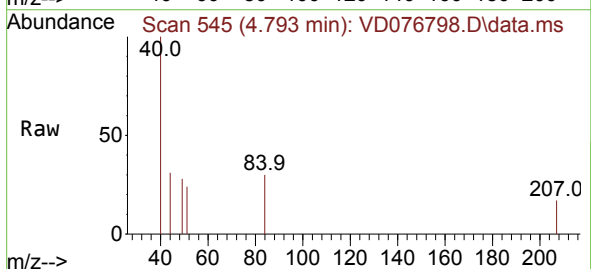
Instrument :  
MSVOA\_D  
ClientSampleId :  
MARION-COMPRE

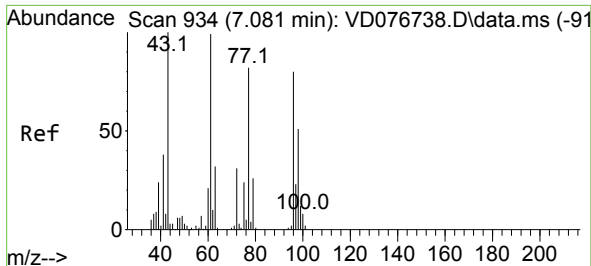
Tgt Ion: 43 Resp: 395  
Ion Ratio Lower Upper  
43 100  
58 0.0 34.7 52.1#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.793 min Scan# 545  
Delta R.T. -0.006 min  
Lab File: VD076798.D  
Acq: 19 Jul 2023 18:42

Tgt Ion: 84 Resp: 357  
Ion Ratio Lower Upper  
84 100  
49 94.4 71.4 107.2  
51 81.1 24.5 36.7#  
86 0.0 48.7 73.1#





#25

2-Butanone

Concen: 2.271 ug/l

RT: 7.105 min Scan# 91

Delta R.T. 0.024 min

Lab File: VD076798.D

Acq: 19 Jul 2023 18:42

Instrument :

MSVOA\_D

ClientSampleId :

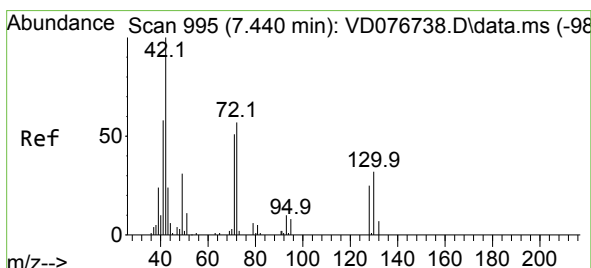
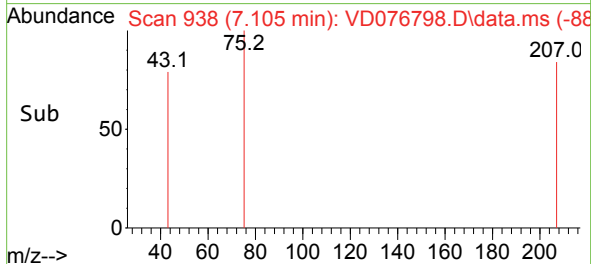
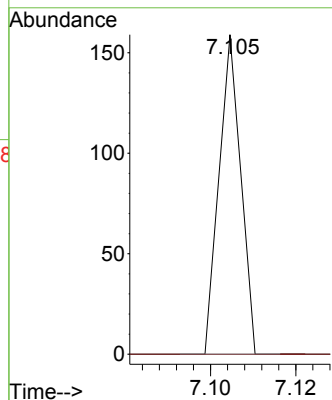
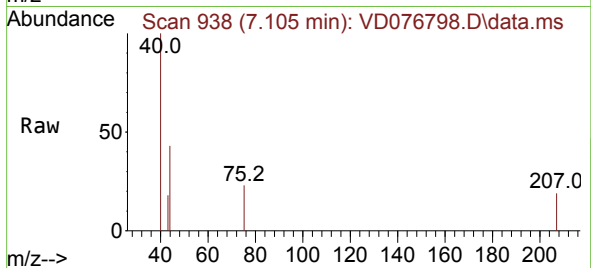
MARION-COMPRE

Tgt Ion: 43 Resp: 56

Ion Ratio Lower Upper

43 100

72 0.0 30.7 46.1#



#29

Tetrahydrofuran

Concen: 5.765 ug/l

RT: 7.452 min Scan# 997

Delta R.T. 0.012 min

Lab File: VD076798.D

Acq: 19 Jul 2023 18:42

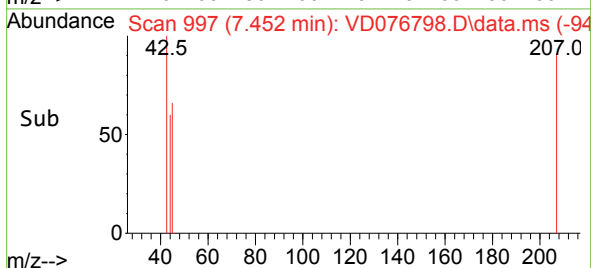
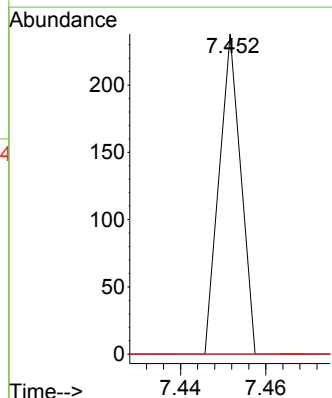
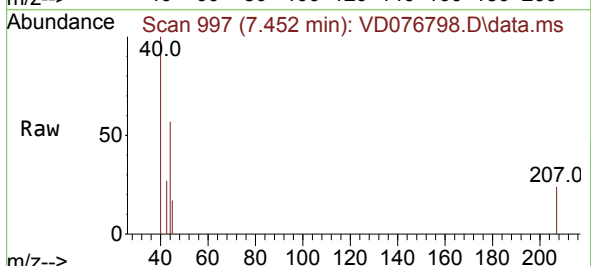
Tgt Ion: 42 Resp: 84

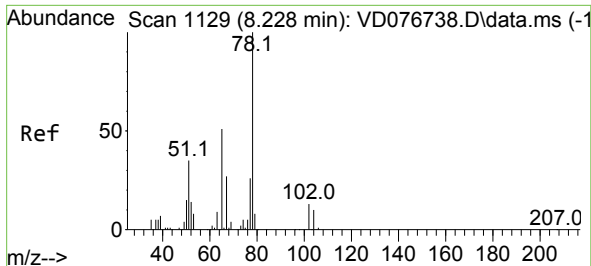
Ion Ratio Lower Upper

42 100

72 0.0 46.5 69.7#

71 0.0 44.5 66.7#





#33

1,2-Dichloroethane-d4

Concen: 93.206 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VD076798.D

Acq: 19 Jul 2023 18:42

Instrument :

MSVOA\_D

ClientSampleId :

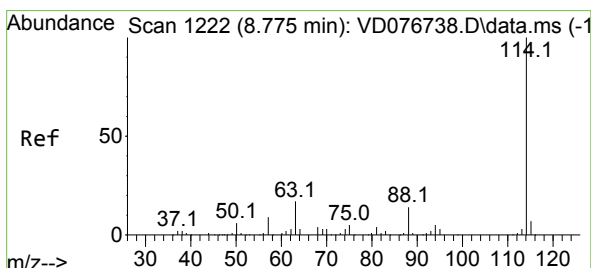
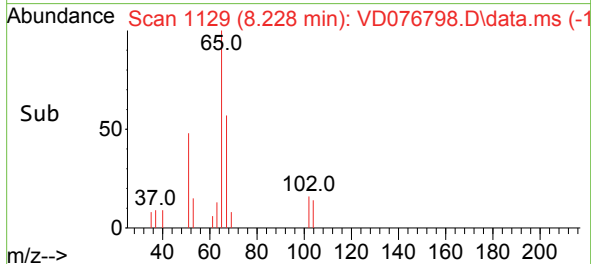
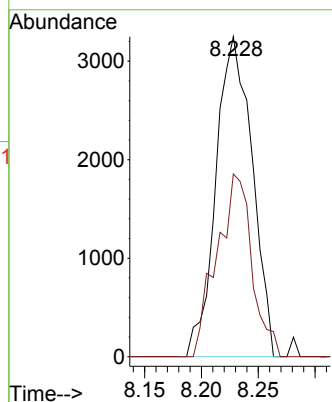
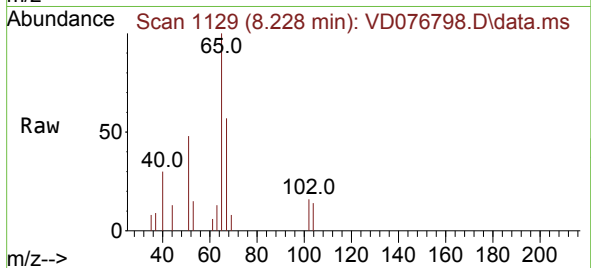
MARION-COMPRE

Tgt Ion: 65 Resp: 7192

Ion Ratio Lower Upper

65 100

67 55.2 0.0 115.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. -0.000 min

Lab File: VD076798.D

Acq: 19 Jul 2023 18:42

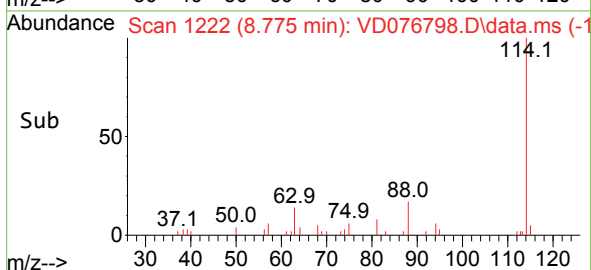
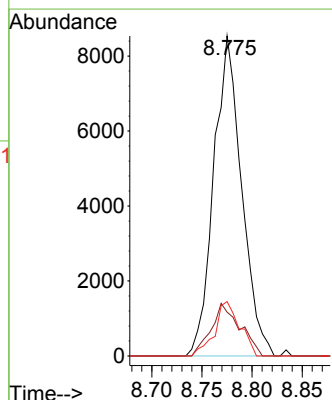
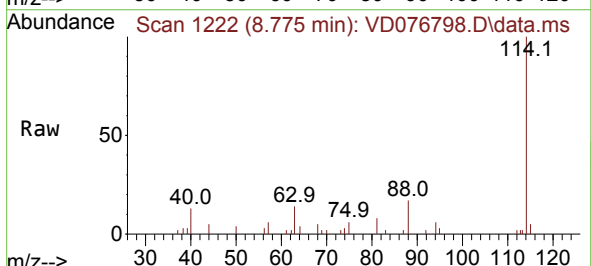
Tgt Ion: 114 Resp: 16539

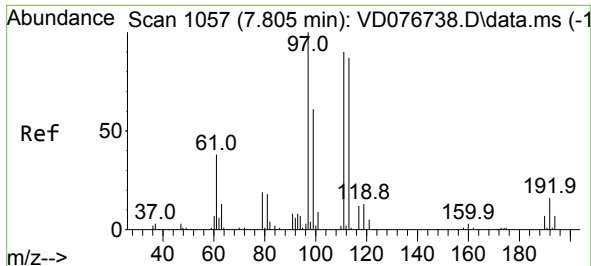
Ion Ratio Lower Upper

114 100

63 13.7 0.0 33.4

88 17.0 0.0 26.2





#35

Dibromofluoromethane

Concen: 64.927 ug/l

RT: 7.799 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VD076798.D

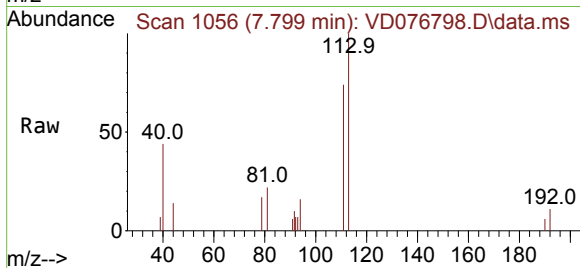
Acq: 19 Jul 2023 18:42

Instrument :

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ClientSampleId :

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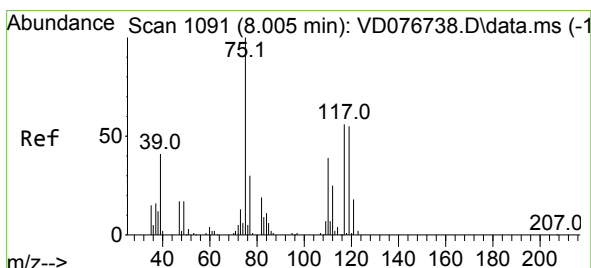
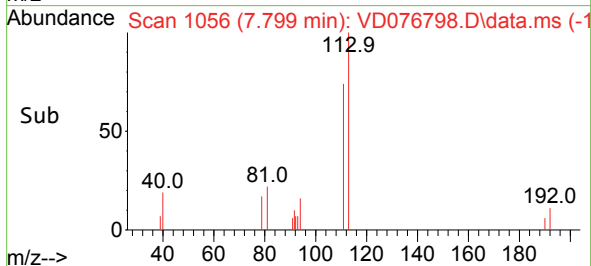
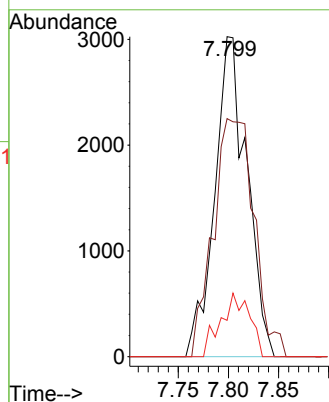
Tgt Ion:113 Resp: 6748

Ion Ratio Lower Upper

113 100

111 94.3 84.7 127.1

192 17.7 16.8 25.2



#36

1,1-Dichloropropene

Concen: 3.225 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.130 min

Lab File: VD076798.D

Acq: 19 Jul 2023 18:42

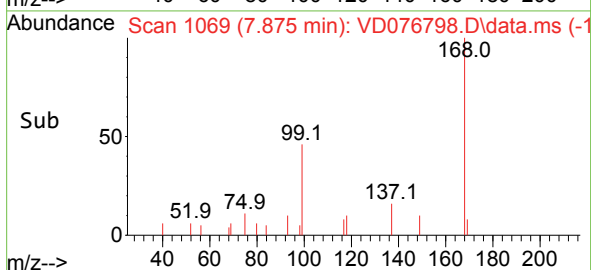
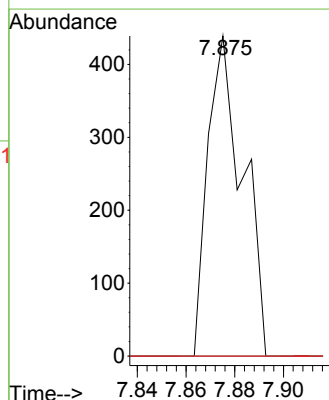
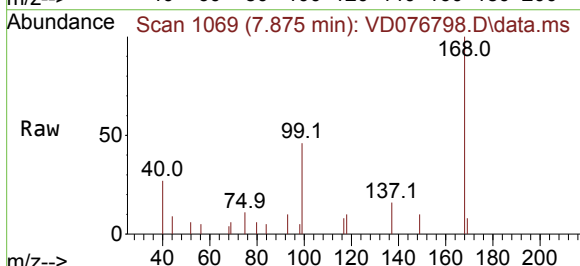
Tgt Ion: 75 Resp: 438

Ion Ratio Lower Upper

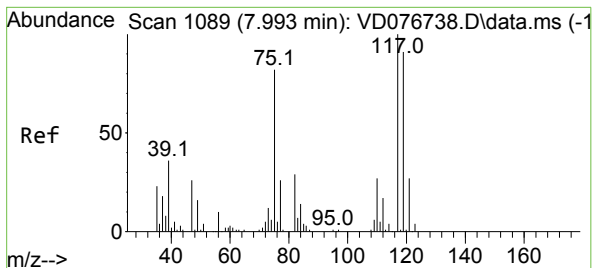
75 100

110 0.0 19.9 59.6#

77 0.0 24.7 37.1#







#38

Carbon Tetrachloride

Concen: 6.113 ug/l

RT: 7.881 min Scan# 1089

Delta R.T. -0.112 min

Lab File: VD076798.D

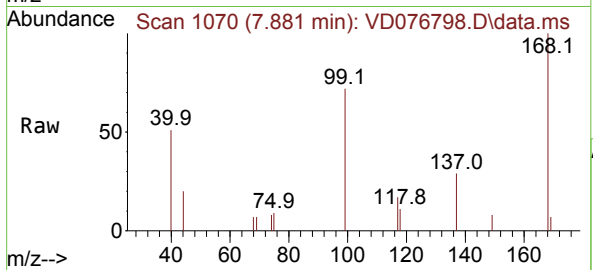
Acq: 19 Jul 2023 18:42

Instrument :

MSVOA\_D

ClientSampleId :

MARION-COMPRE



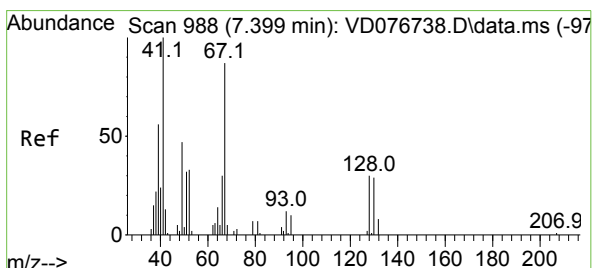
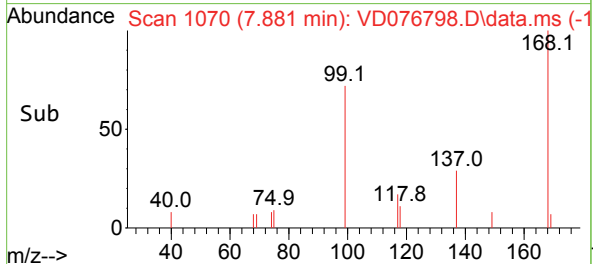
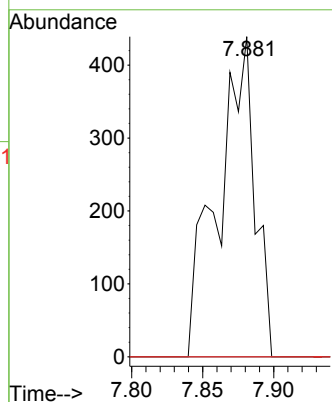
Tgt Ion:117 Resp: 795

Ion Ratio Lower Upper

117 100

119 0.0 78.0 117.0#

121 0.0 24.2 36.2#



#41

Methacrylonitrile

Concen: 2.049 ug/l

RT: 7.422 min Scan# 992

Delta R.T. 0.023 min

Lab File: VD076798.D

Acq: 19 Jul 2023 18:42

Tgt Ion: 41 Resp: 76

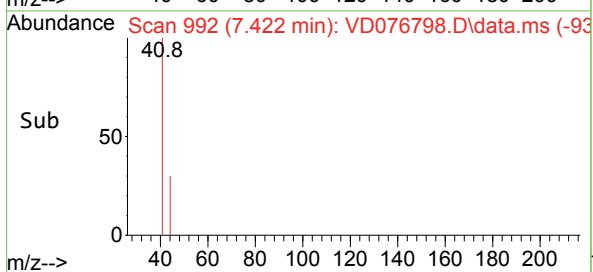
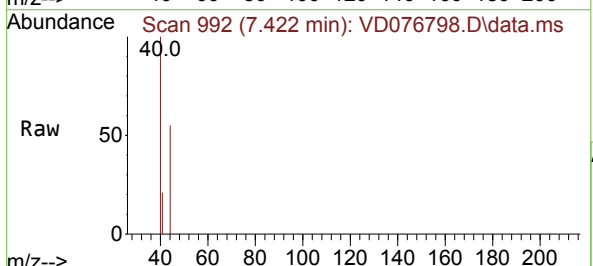
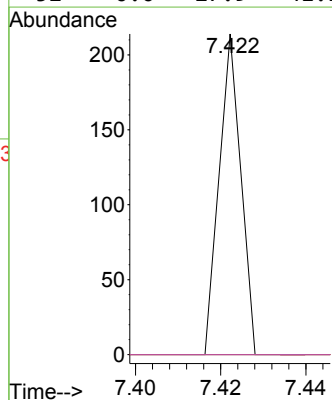
Ion Ratio Lower Upper

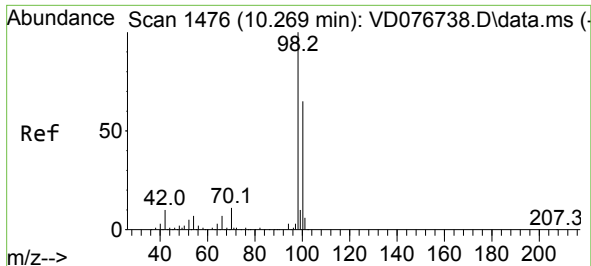
41 100

39 0.0 34.0 51.0#

67 0.0 77.0 115.4#

52 0.0 27.9 41.9#

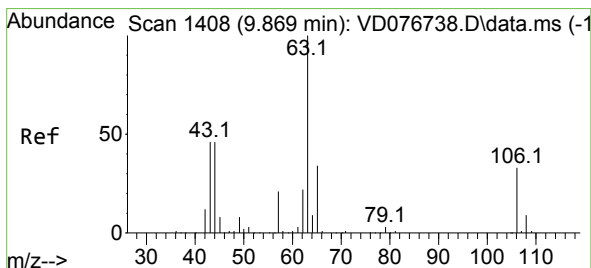
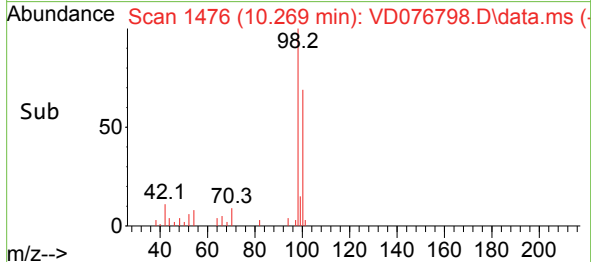
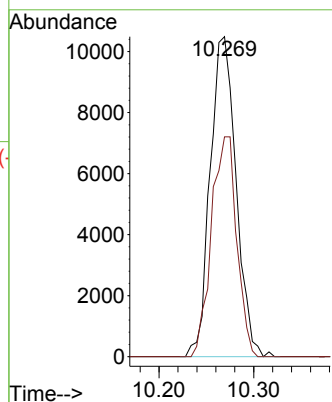
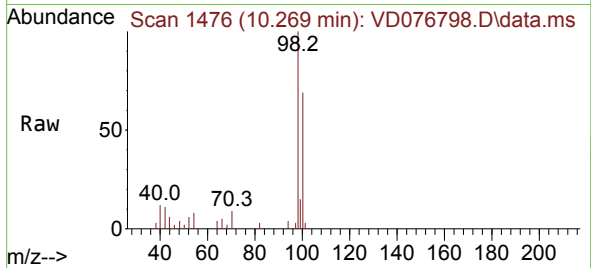




#50  
Toluene-d8  
Concen: 53.593 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VD076798.D  
Acq: 19 Jul 2023 18:42

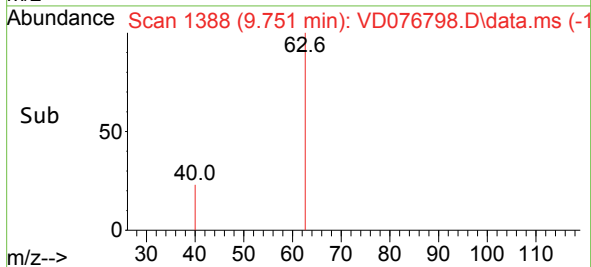
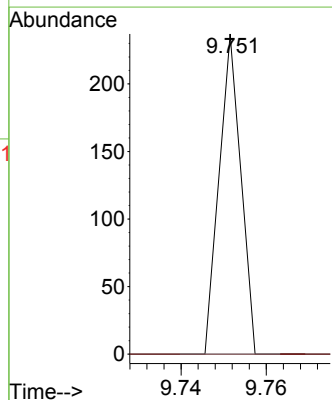
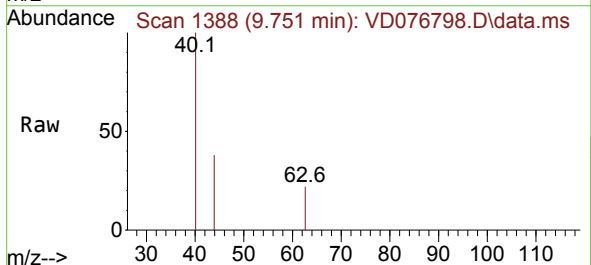
Instrument :  
MSVOA\_D  
ClientSampleId :  
MARION-COMPRE

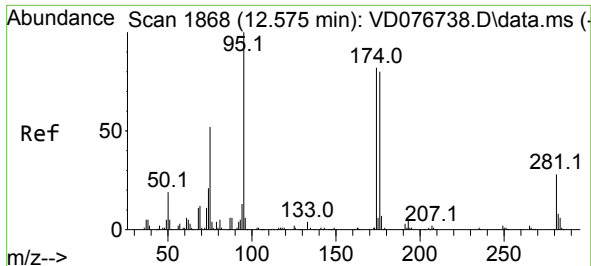
Tgt Ion: 98 Resp: 19926  
Ion Ratio Lower Upper  
98 100  
100 67.0 50.3 75.5



#58  
2-Chloroethyl Vinyl ether  
Concen: 1.989 ug/l  
RT: 9.751 min Scan# 1388  
Delta R.T. -0.118 min  
Lab File: VD076798.D  
Acq: 19 Jul 2023 18:42

Tgt Ion: 63 Resp: 84  
Ion Ratio Lower Upper  
63 100  
106 0.0 25.3 37.9#

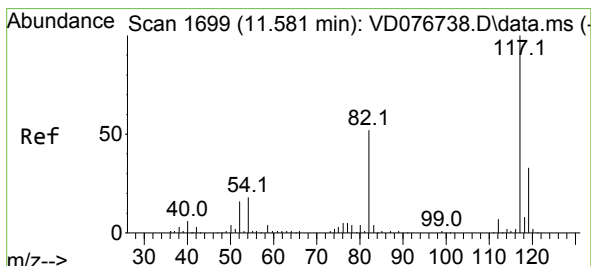
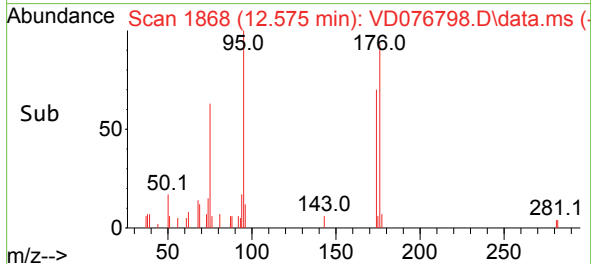
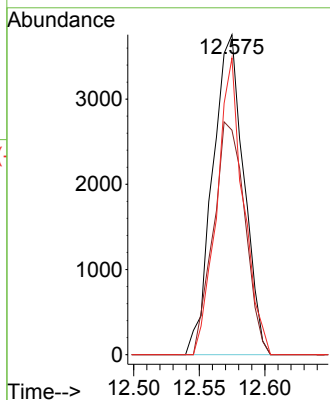
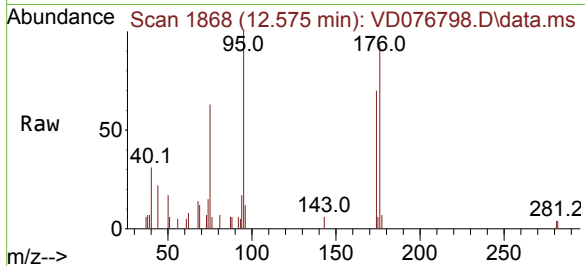




#62  
4-Bromofluorobenzene  
Concen: 51.605 ug/l  
RT: 12.575 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VD076798.D  
Acq: 19 Jul 2023 18:42

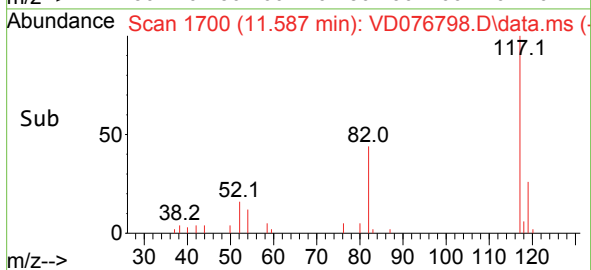
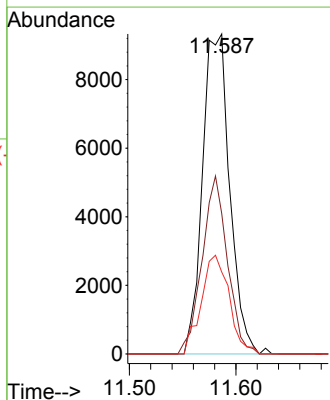
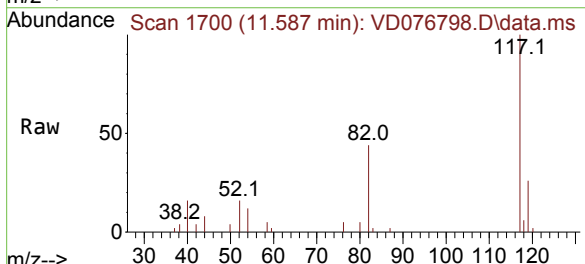
Instrument :  
MSVOA\_D  
ClientSampleId :  
MARION-COMPRE

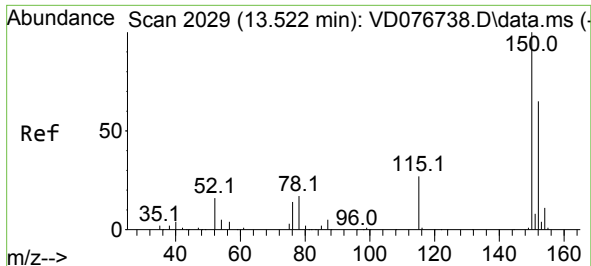
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 6207  |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 73.5  | 0.0   | 201.8 |
| 176      | 79.0  | 0.0   | 191.8 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.587 min Scan# 1700  
Delta R.T. 0.006 min  
Lab File: VD076798.D  
Acq: 19 Jul 2023 18:42

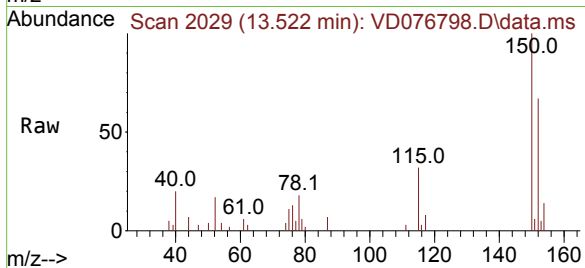
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 16619 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 43.9  | 38.3  | 57.5  |
| 119      | 25.6  | 25.0  | 37.4  |



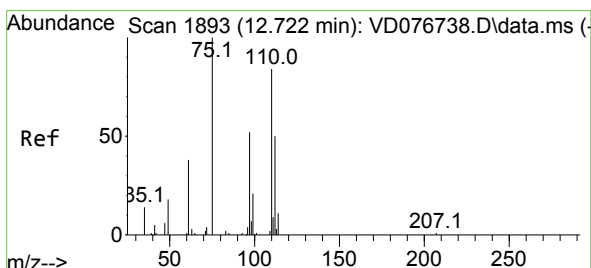
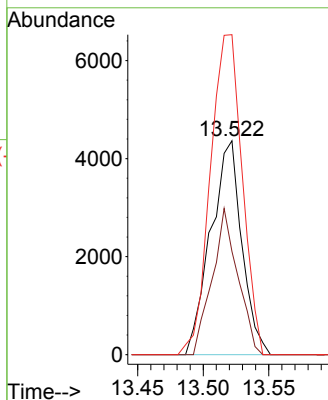
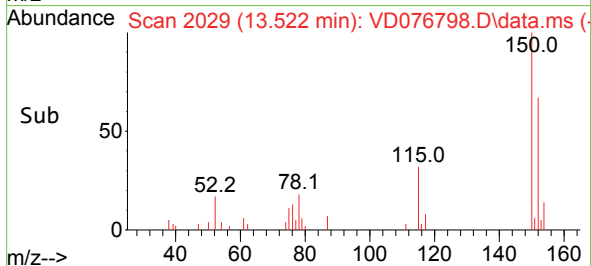


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.522 min Scan# 2029  
 Delta R.T. -0.000 min  
 Lab File: VD076798.D  
 Acq: 19 Jul 2023 18:42

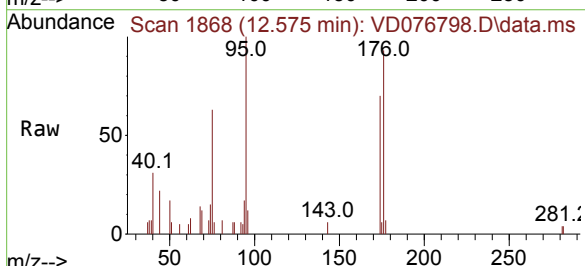
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MARION-COMP



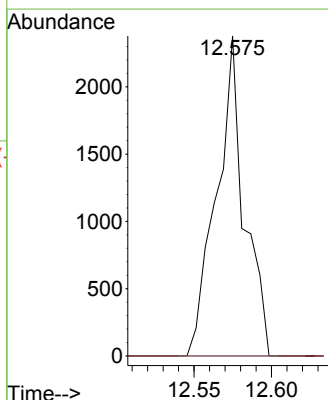
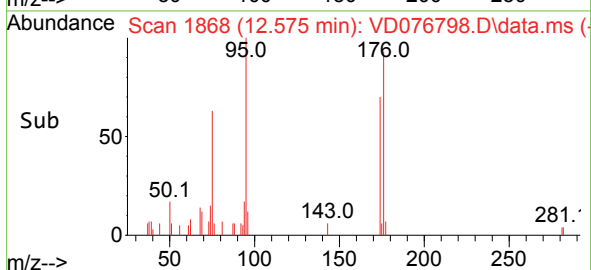
Tgt Ion:152 Resp: 7190  
 Ion Ratio Lower Upper  
 152 100  
 115 56.3 27.1 81.3  
 150 153.4 0.0 353.6

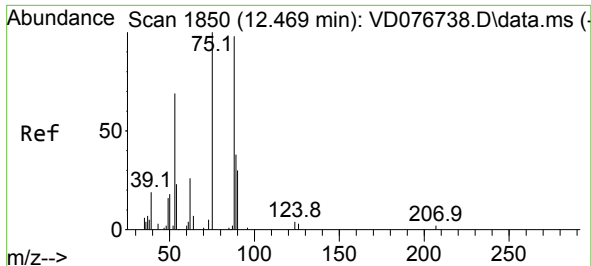


#76  
 1,2,3-Trichloropropane  
 Concen: 43.261 ug/l  
 RT: 12.575 min Scan# 1868  
 Delta R.T. -0.147 min  
 Lab File: VD076798.D  
 Acq: 19 Jul 2023 18:42



Tgt Ion: 75 Resp: 2958  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 0.0 0.0

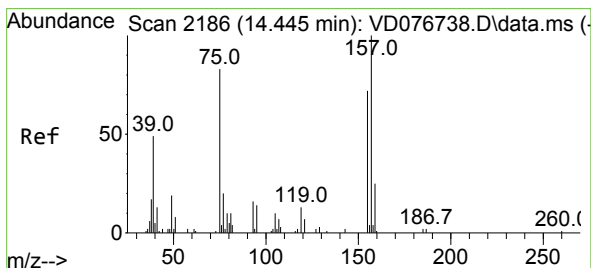
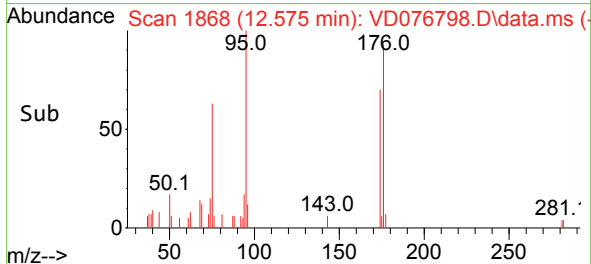
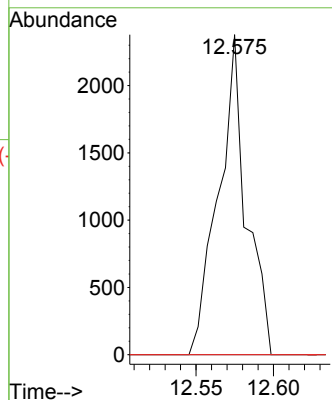
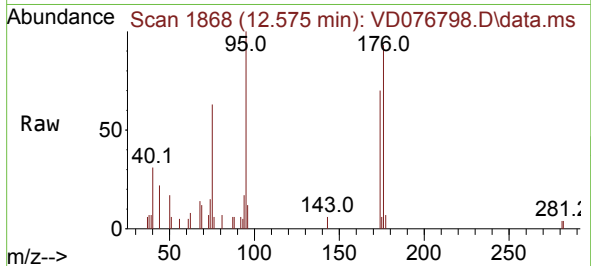




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 92.070 ug/l  
 RT: 12.575 min Scan# 1868  
 Delta R.T. 0.106 min  
 Lab File: VD076798.D  
 Acq: 19 Jul 2023 18:42

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MARION-COMPRE

Tgt Ion: 75 Resp: 2958  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 63.0 94.4#  
 89 0.0 37.9 56.9#



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 3.757 ug/l  
 RT: 14.292 min Scan# 2160  
 Delta R.T. -0.153 min  
 Lab File: VD076798.D  
 Acq: 19 Jul 2023 18:42

Tgt Ion: 75 Resp: 60  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 47.9 143.8#  
 157 0.0 59.9 179.7#

