

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN093022\  
 Data File : VN074695.D  
 Acq On : 01 Oct 2022 07:14  
 Operator : JC\MD  
 Sample : N4882-07  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 03 02:12:41 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N092922W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 30 07:44:59 2022  
 Response via : Initial Calibration

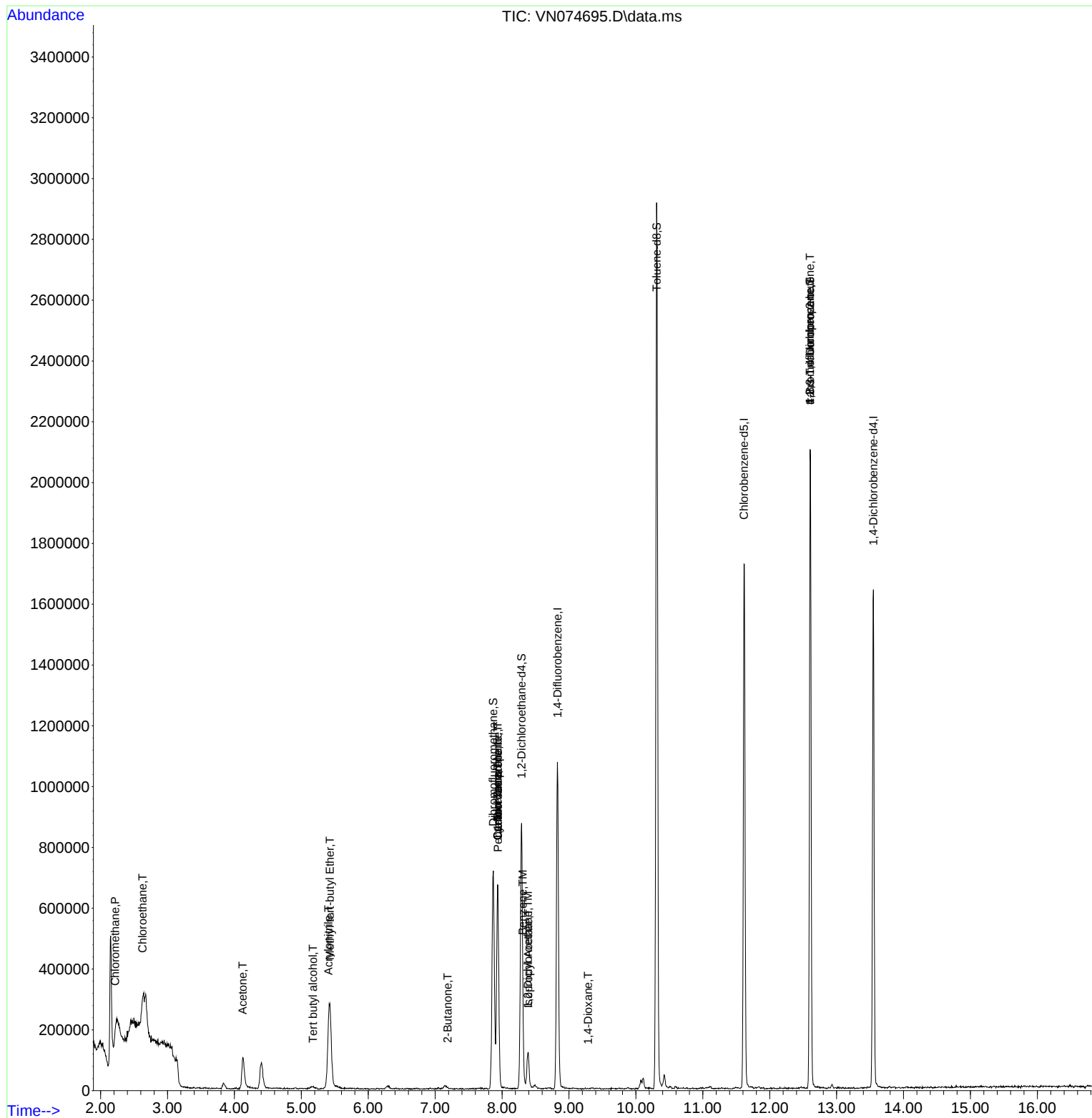
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.939  | 168   | 486514   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.828  | 114   | 916996   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.616 | 117   | 900546   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.551 | 152   | 401039   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.292  | 65    | 636888   | 52.233    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 104.460% |          |
| 35) Dibromofluoromethane      | 7.869  | 113   | 503440   | 51.869    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 103.740% |          |
| 50) Toluene-d8                | 10.310 | 98    | 1948296  | 47.722    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 95.440%  |          |
| 62) 4-Bromofluorobenzene      | 12.604 | 95    | 618585   | 47.784    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 95.560%  |          |
| Target Compounds              |        |       |          |           |            | Qvalue   |
| 3) Chloromethane              | 2.216  | 50    | 3466     | 0.233     | ug/l #     | 75       |
| 6) Chloroethane               | 2.628  | 64    | 46701    | 2.809     | ug/l #     | 45       |
| 8) Diethyl Ether              | 3.475  | 74    | 153      | Below Cal |            | 76       |
| 11) Tert butyl alcohol        | 5.175  | 59    | 14044    | 4.313     | ug/l #     | 72       |
| 13) Acrolein                  | 3.875  | 56    | 96       | Below Cal | #          | 16       |
| 15) Acrylonitrile             | 5.404  | 53    | 3390     | 0.441     | ug/l #     | 27       |
| 16) Acetone                   | 4.122  | 43    | 179191   | 25.520    | ug/l       | 96       |
| 19) Methyl tert-butyl Ether   | 5.428  | 73    | 475150   | 13.701    | ug/l       | 97       |
| 20) Methylene Chloride        | 4.898  | 84    | 994      | Below Cal | #          | 46       |
| 25) 2-Butanone                | 7.187  | 43    | 5964     | 0.531     | ug/l #     | 53       |
| 31) Cyclohexane               | 7.934  | 56    | 14923    | 0.753     | ug/l #     | 45       |
| 36) 1,1-Dichloropropene       | 7.934  | 75    | 43068    | 2.771     | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 7.934  | 117   | 49362    | 3.466     | ug/l #     | 21       |
| 40) Benzene                   | 8.310  | 78    | 44478    | 0.928     | ug/l       | 96       |
| 42) 1,2-Dichloroethane        | 8.386  | 62    | 27649    | 1.718     | ug/l       | 92       |
| 43) Isopropyl Acetate         | 8.392  | 43    | 21321    | 0.580     | ug/l #     | 83       |
| 49) 1,4-Dioxane               | 9.286  | 88    | 73       | 0.253     | ug/l #     | 1        |
| 74) N-amyl acetate            | 12.280 | 43    | 567      | Below Cal | #          | 54       |
| 75) 1,1,2,2-Tetrachloroethane | 12.733 | 83    | 69       | Below Cal | #          | 25       |
| 76) 1,2,3-Trichloropropane    | 12.604 | 75    | 372272   | 41.119    | ug/l #     | 1        |
| 77) Bromobenzene              | 12.627 | 156   | 200      | Below Cal | #          | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.604 | 75    | 372272   | 77.572    | ug/l #     | 10       |

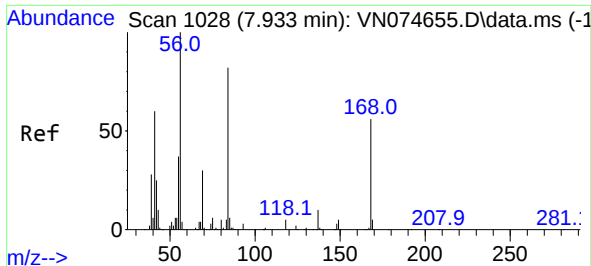
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Sep 30 07:44:59 2022  
Response via : Initial Calibration

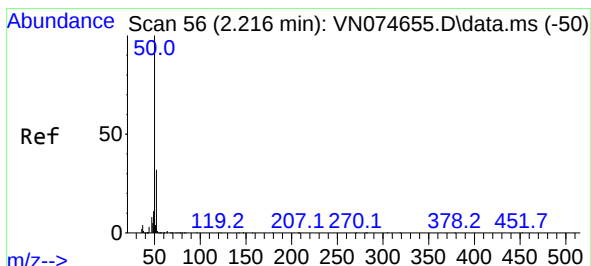
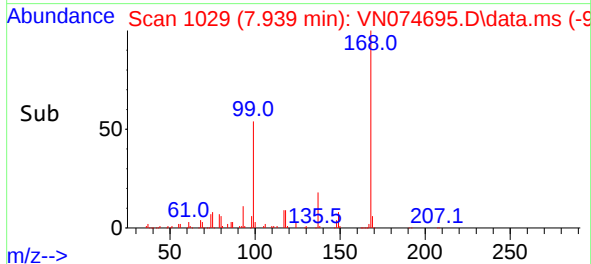
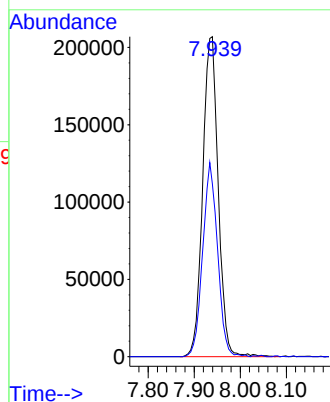
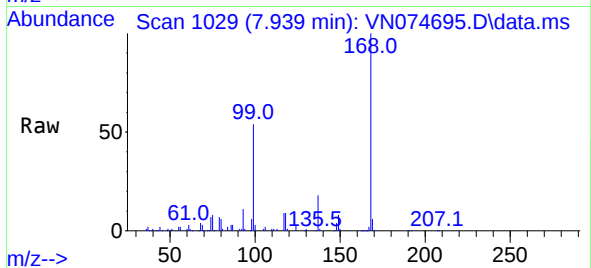




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.939 min Scan# 1028  
Delta R.T. 0.006 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

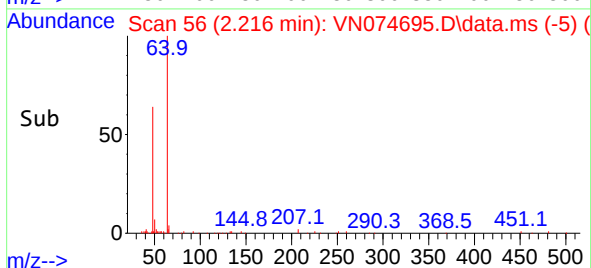
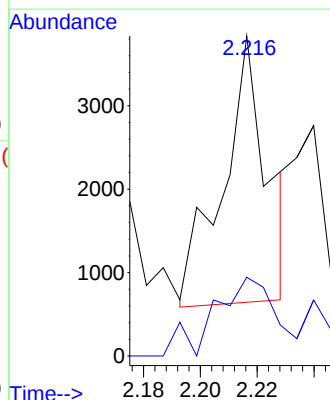
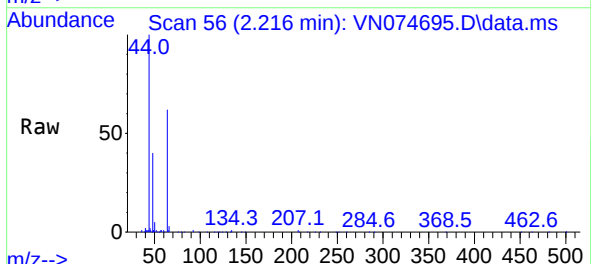
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MSVOA\_N  
ClientSampleId :

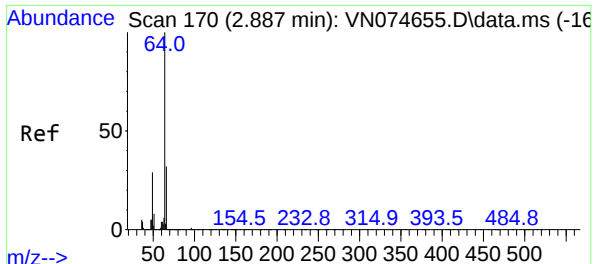
Tgt Ion:168 Resp: 486514  
Ion Ratio Lower Upper  
168 100  
99 54.1 42.3 63.5



#3  
Chloromethane  
Concen: 0.233 ug/l  
RT: 2.216 min Scan# 56  
Delta R.T. 0.000 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

Tgt Ion: 50 Resp: 3466  
Ion Ratio Lower Upper  
50 100  
52 18.1 25.7 38.5#

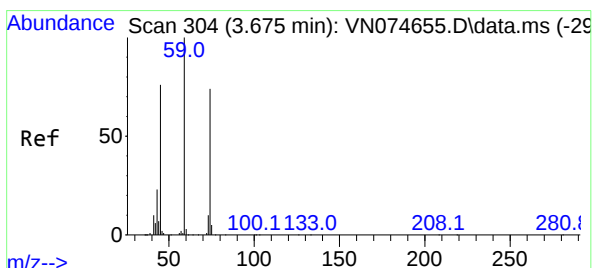
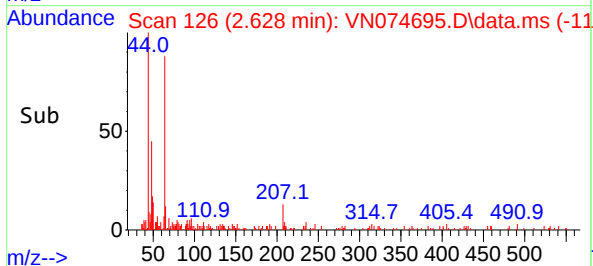
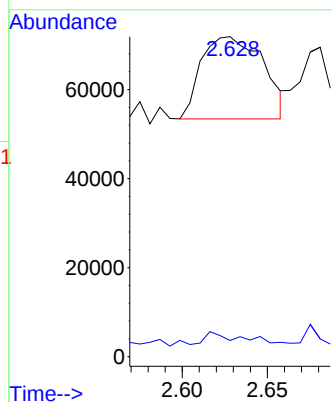
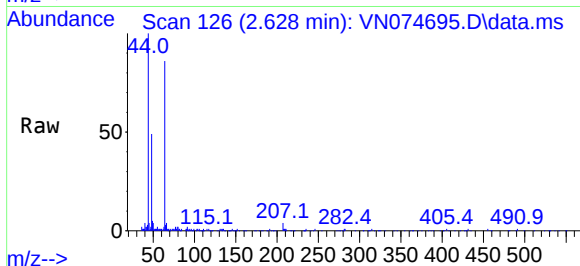




#6  
Chloroethane  
Concen: 2.809 ug/l  
RT: 2.628 min Scan# 11  
Delta R.T. -0.259 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

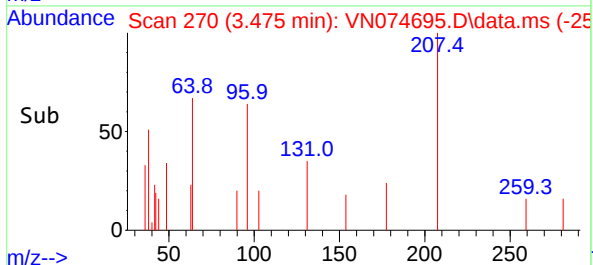
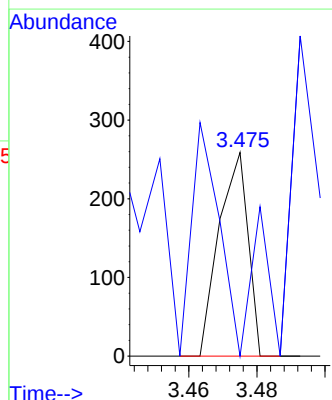
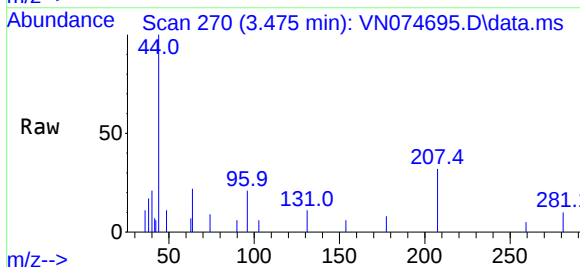
Instrument :  
MSVOA\_N  
ClientSampleId :

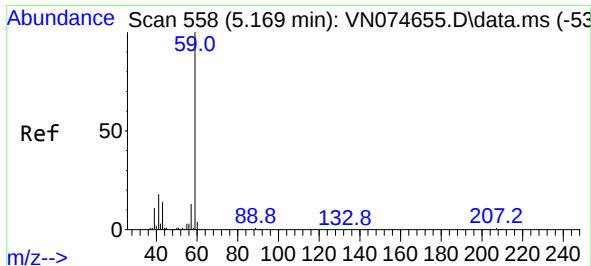
Tgt Ion: 64 Resp: 46701  
Ion Ratio Lower Upper  
64 100  
66 2.0 26.2 39.4#



#8  
Diethyl Ether  
Concen: Below Cal  
RT: 3.475 min Scan# 270  
Delta R.T. -0.200 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

Tgt Ion: 74 Resp: 153  
Ion Ratio Lower Upper  
74 100  
45 107.8 42.9 128.5





#11

Tert butyl alcohol

Concen: 4.313 ug/l

RT: 5.175 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN074695.D

Acq: 01 Oct 2022 07:14

Instrument :

MSVOA\_N

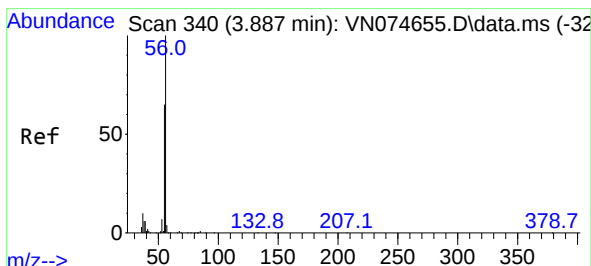
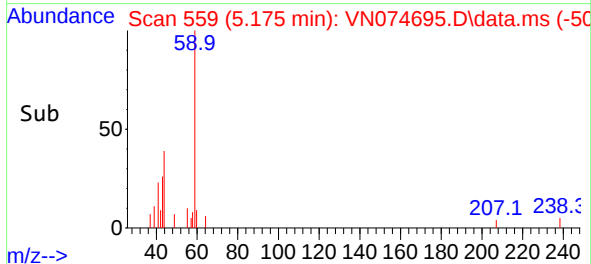
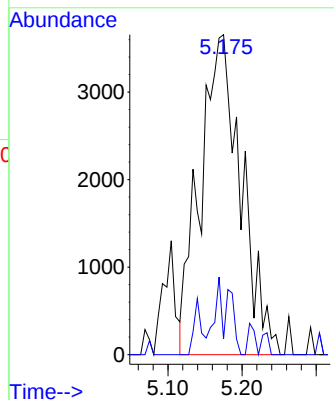
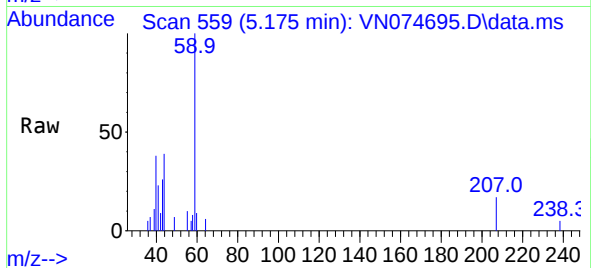
ClientSampleId :

Tgt Ion: 59 Resp: 14044

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#13

Acrolein

Concen: Below Cal

RT: 3.875 min Scan# 338

Delta R.T. -0.012 min

Lab File: VN074695.D

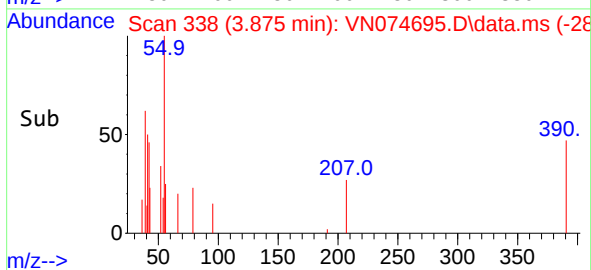
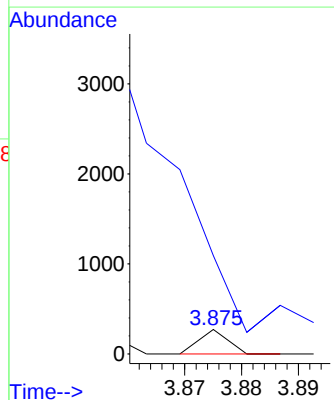
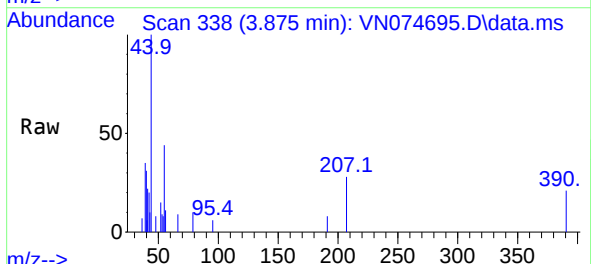
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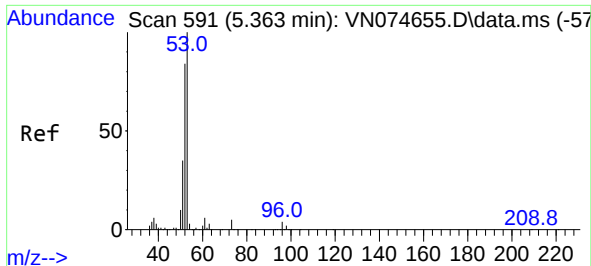
Tgt Ion: 56 Resp: 96

Ion Ratio Lower Upper

56 100

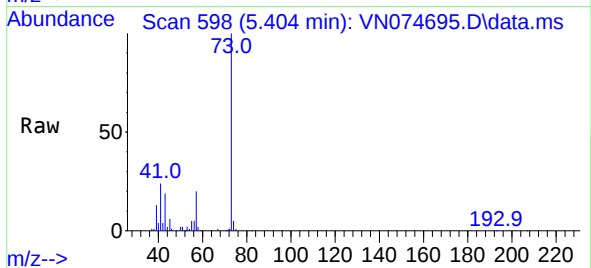
55 0.0 54.8 82.2#



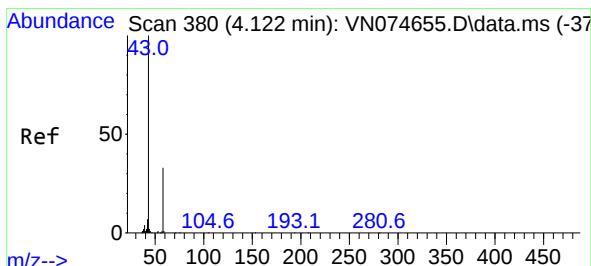
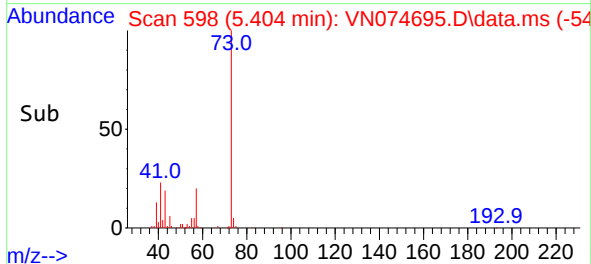
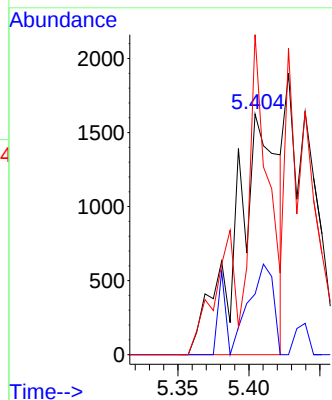


#15  
Acrylonitrile  
Concen: 0.441 ug/l  
RT: 5.404 min Scan# 51  
Delta R.T. 0.041 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

Instrument :  
MSVOA\_N  
ClientSampleId :

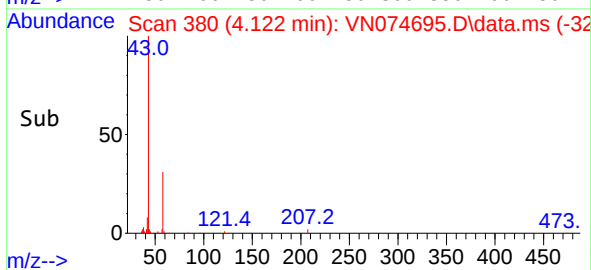
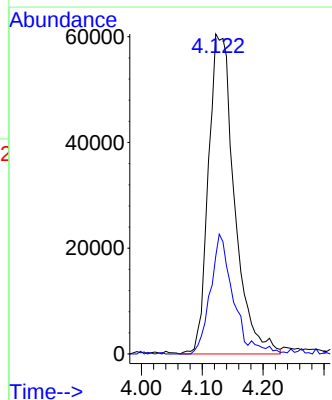
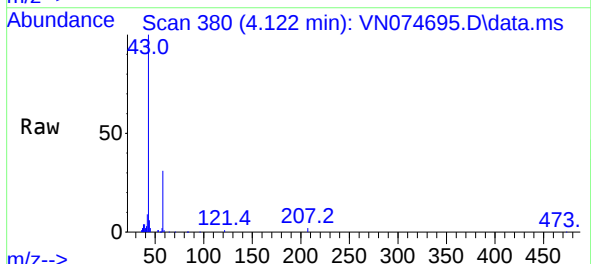


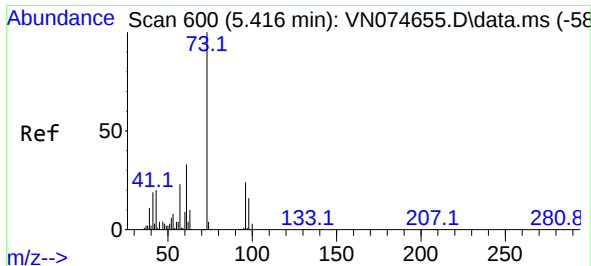
Tgt Ion: 53 Resp: 3390  
Ion Ratio Lower Upper  
53 100  
52 21.7 66.4 99.6#  
51 85.0 28.5 42.7#



#16  
Acetone  
Concen: 25.520 ug/l  
RT: 4.122 min Scan# 380  
Delta R.T. 0.000 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

Tgt Ion: 43 Resp: 179191  
Ion Ratio Lower Upper  
43 100  
58 30.5 26.0 39.0





#19

Methyl tert-butyl Ether

Concen: 13.701 ug/l

RT: 5.428 min Scan# 600

Delta R.T. 0.012 min

Lab File: VN074695.D

Acq: 01 Oct 2022 07:14

Instrument :

MSVOA\_N

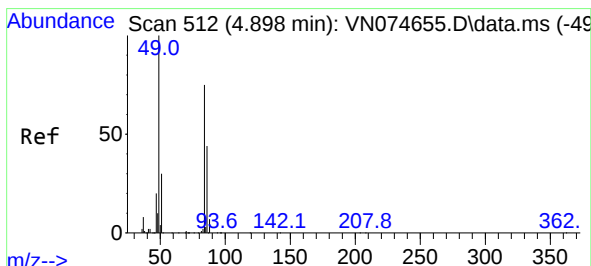
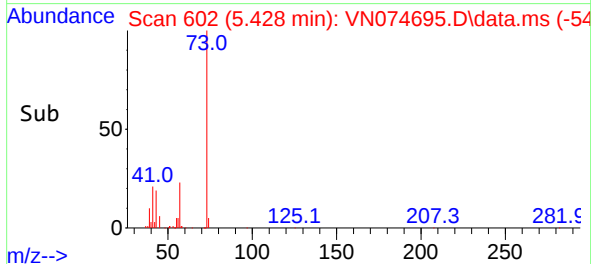
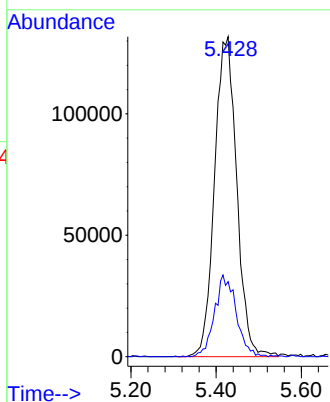
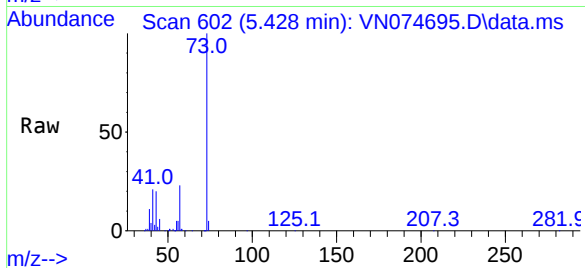
ClientSampleId :

Tgt Ion: 73 Resp: 475150

Ion Ratio Lower Upper

73 100

57 23.5 17.6 26.4



#20

Methylene Chloride

Concen: Below Cal

RT: 4.898 min Scan# 512

Delta R.T. 0.000 min

Lab File: VN074695.D

Acq: 01 Oct 2022 07:14

Tgt Ion: 84 Resp: 994

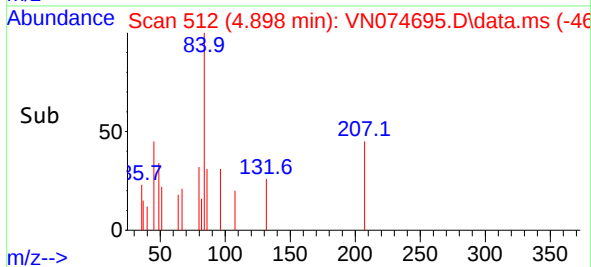
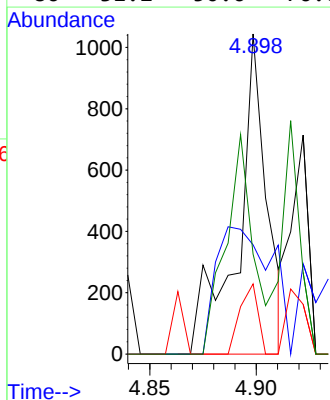
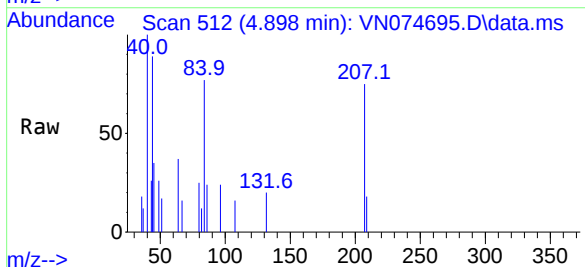
Ion Ratio Lower Upper

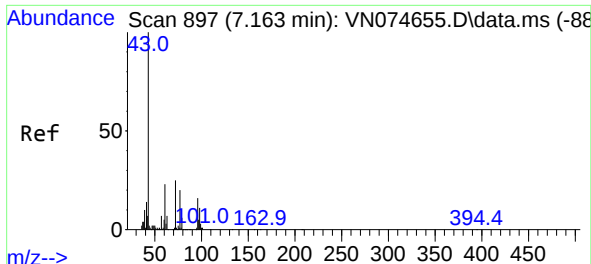
84 100

49 34.1 88.3 132.5#

51 21.9 28.2 42.2#

86 31.2 50.6 76.0#

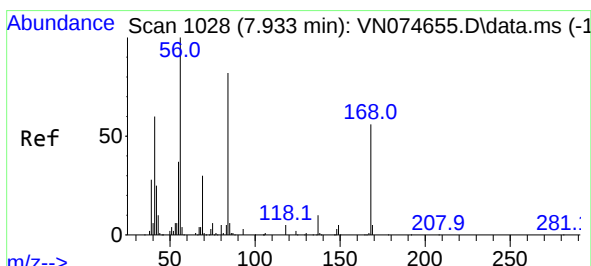
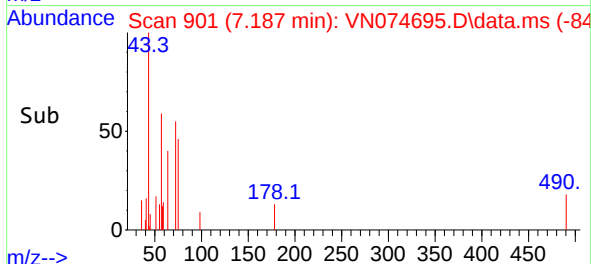
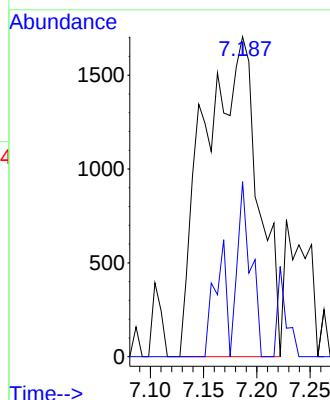
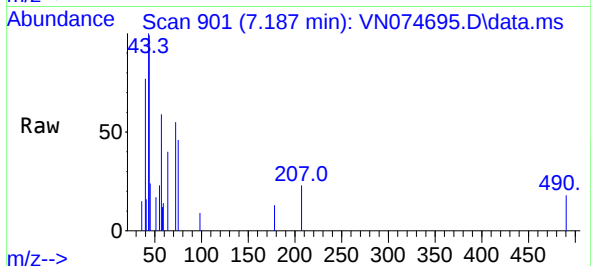




#25  
2-Butanone  
Concen: 0.531 ug/l  
RT: 7.187 min Scan# 901  
Delta R.T. 0.024 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

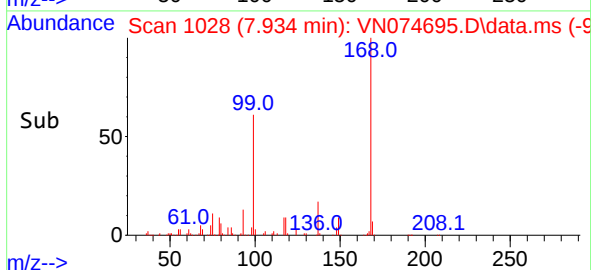
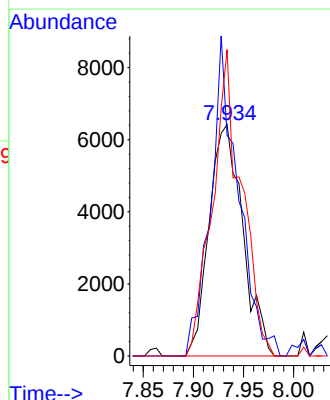
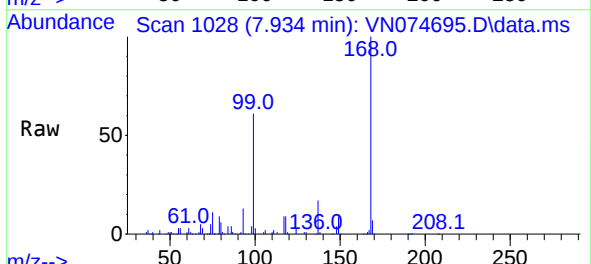
Instrument :  
MSVOA\_N  
ClientSampleId :

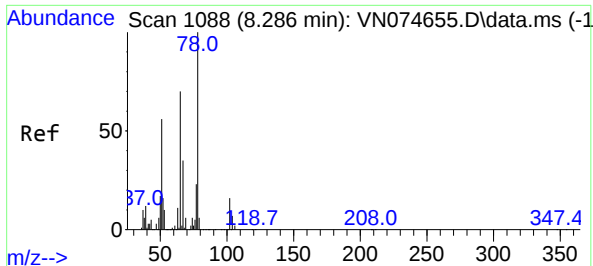
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Ion Ratio Lower Upper  
43 100  
72 54.7 23.7 35.5#



#31  
Cyclohexane  
Concen: 0.753 ug/l  
RT: 7.934 min Scan# 1028  
Delta R.T. 0.001 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

Tgt Ion: 56 Resp: 14923  
Ion Ratio Lower Upper  
56 100  
69 95.4 27.8 41.8#  
84 132.4 76.9 115.3#

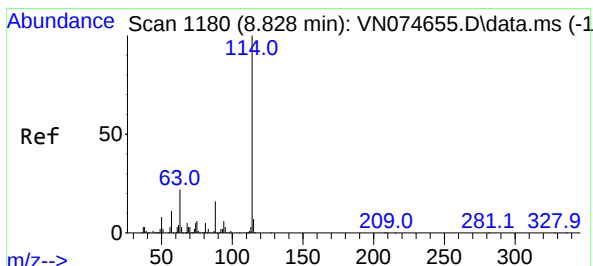
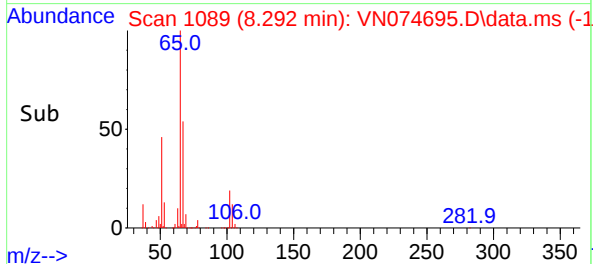
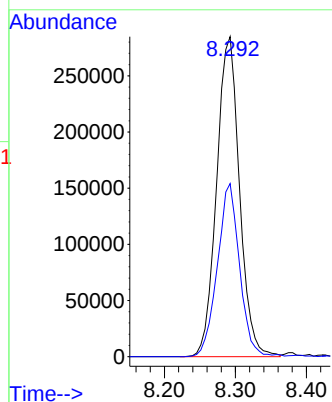
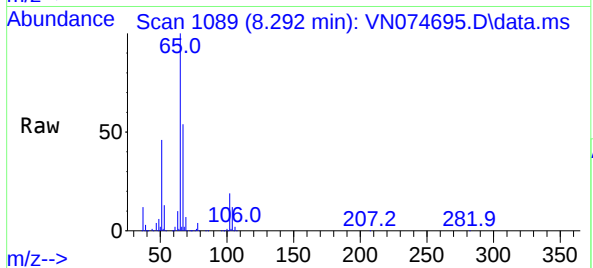




#33  
1,2-Dichloroethane-d4  
Concen: 52.233 ug/l  
RT: 8.292 min Scan# 1088  
Delta R.T. 0.006 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

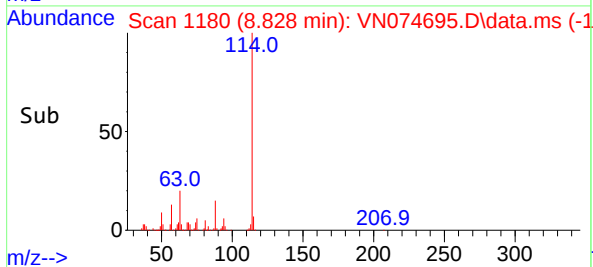
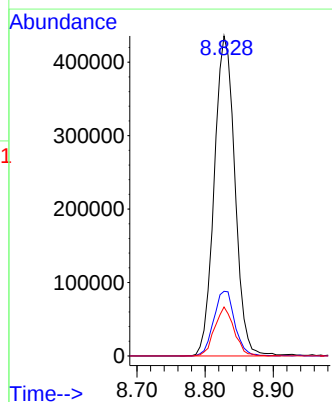
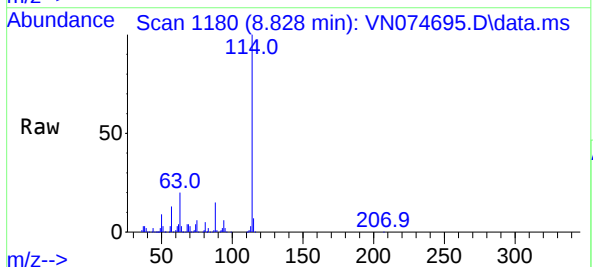
Instrument :  
MSVOA\_N  
ClientSampleId :

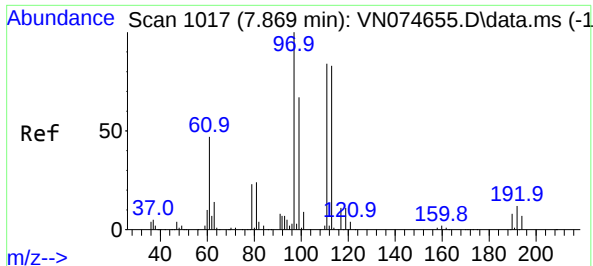
Tgt Ion: 65 Resp: 636888  
Ion Ratio Lower Upper  
65 100  
67 52.4 0.0 104.8



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.828 min Scan# 1180  
Delta R.T. -0.000 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

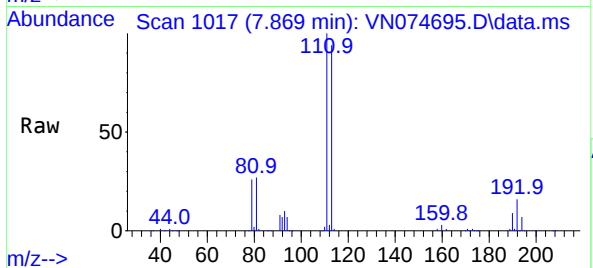
Tgt Ion:114 Resp: 916996  
Ion Ratio Lower Upper  
114 100  
63 20.2 0.0 40.0  
88 15.3 0.0 32.6



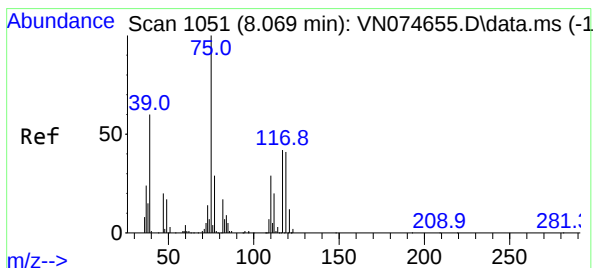
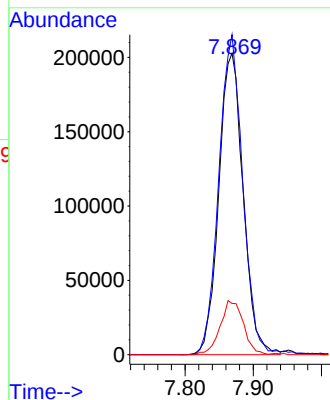
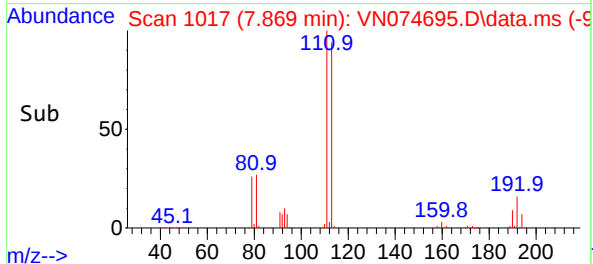


#35  
Dibromofluoromethane  
Concen: 51.869 ug/l  
RT: 7.869 min Scan# 1017  
Delta R.T. -0.000 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

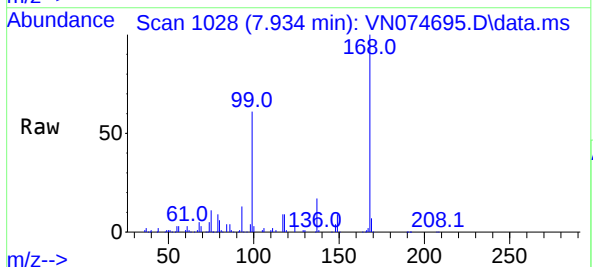
Instrument :  
MSVOA\_N  
ClientSampleId :



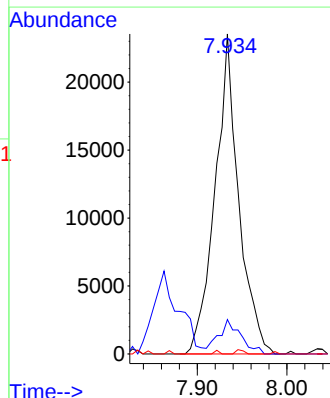
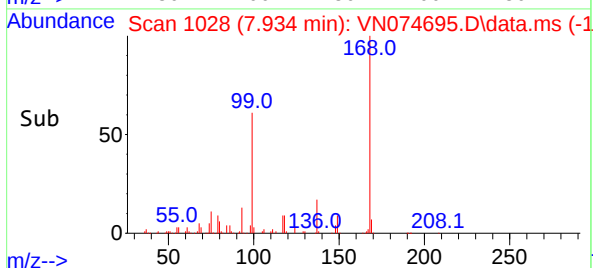
Tgt Ion:113 Resp: 503440  
Ion Ratio Lower Upper  
113 100  
111 105.0 81.4 122.0  
192 17.1 17.0 25.6

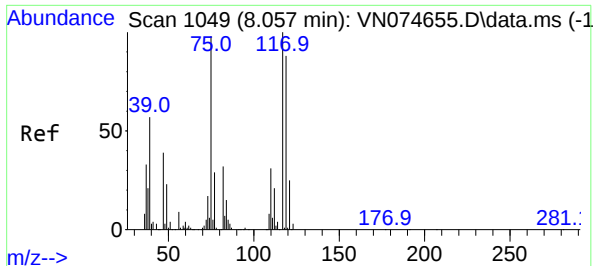


#36  
1,1-Dichloropropene  
Concen: 2.771 ug/l  
RT: 7.934 min Scan# 1028  
Delta R.T. -0.135 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14



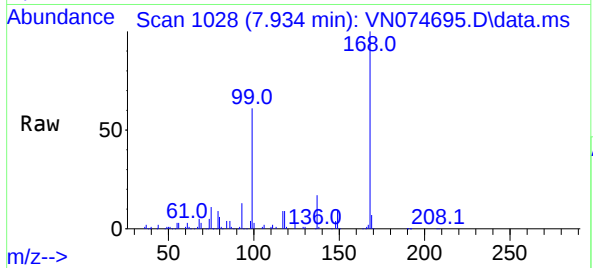
Tgt Ion: 75 Resp: 43068  
Ion Ratio Lower Upper  
75 100  
110 10.0 18.3 54.8#  
77 0.0 25.1 37.7#



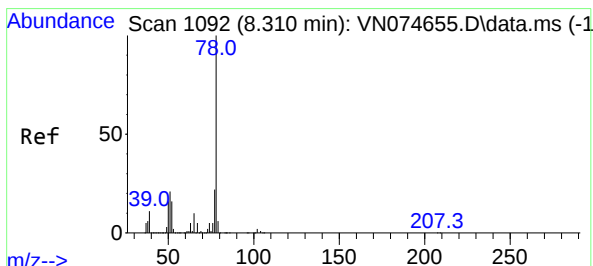
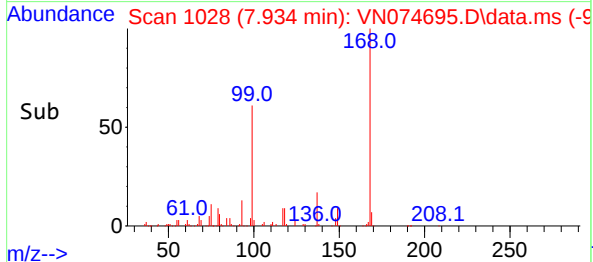
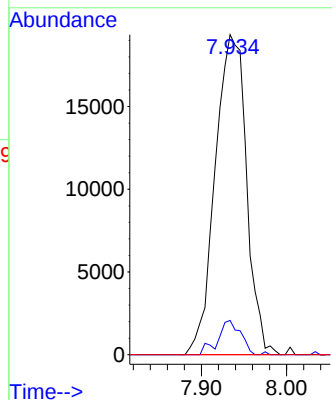


#38  
Carbon Tetrachloride  
Concen: 3.466 ug/l  
RT: 7.934 min Scan# 1028  
Delta R.T. -0.123 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

Instrument :  
MSVOA\_N  
ClientSampleId :

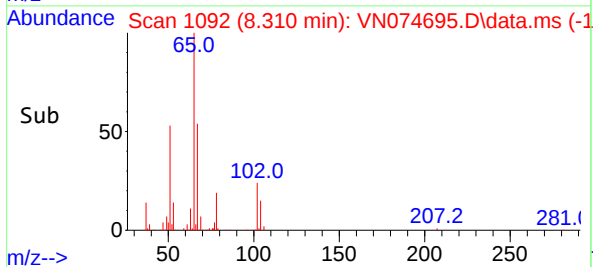
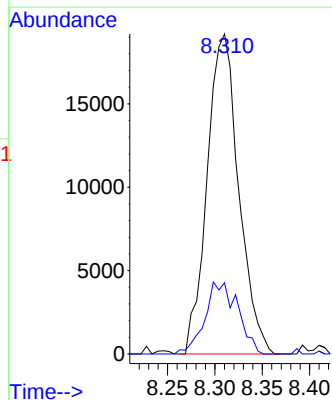
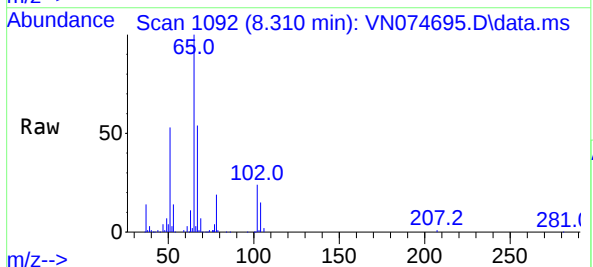


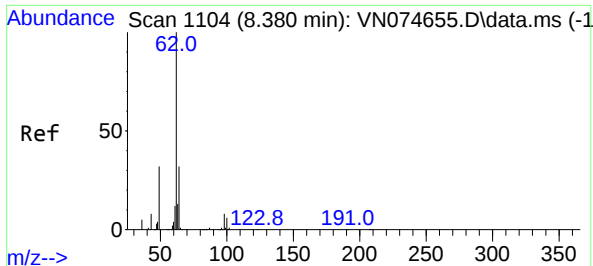
Tgt Ion:117 Resp: 49362  
Ion Ratio Lower Upper  
117 100  
119 10.7 75.8 113.8#  
121 0.0 24.6 37.0#



#40  
Benzene  
Concen: 0.928 ug/l  
RT: 8.310 min Scan# 1092  
Delta R.T. 0.000 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

Tgt Ion: 78 Resp: 44478  
Ion Ratio Lower Upper  
78 100  
77 22.2 19.4 29.0

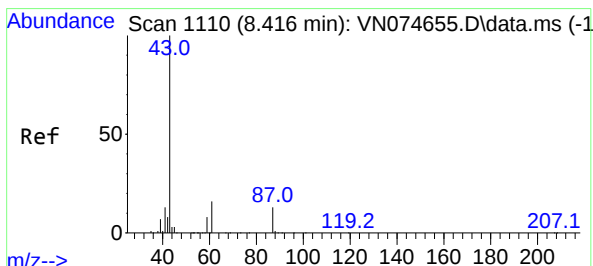
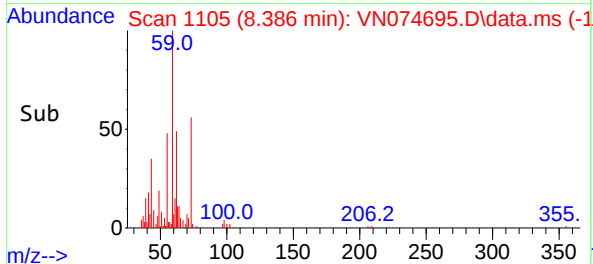
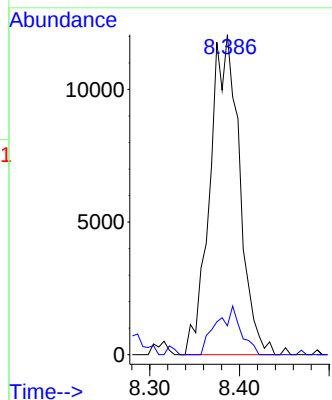
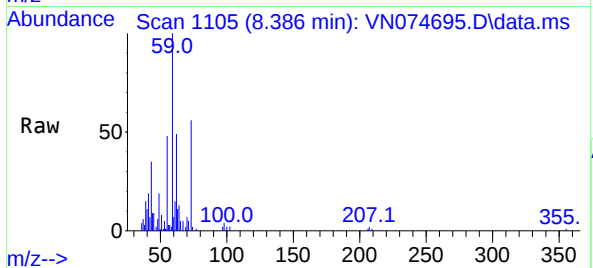




#42  
1,2-Dichloroethane  
Concen: 1.718 ug/l  
RT: 8.386 min Scan# 1104  
Delta R.T. 0.006 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

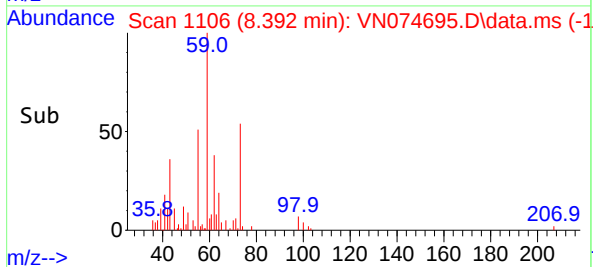
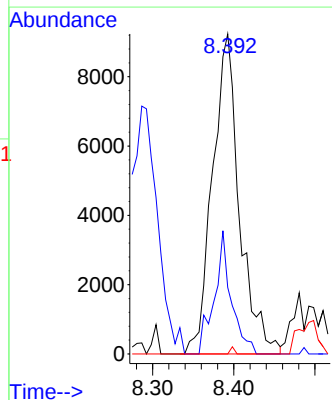
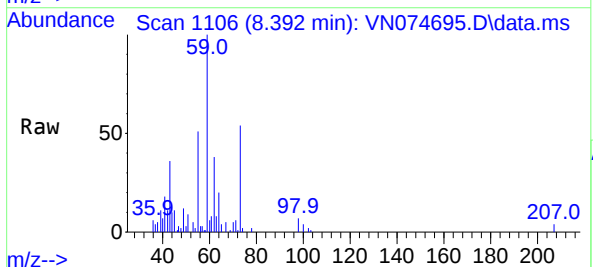
Instrument :  
MSVOA\_N  
ClientSampleId :

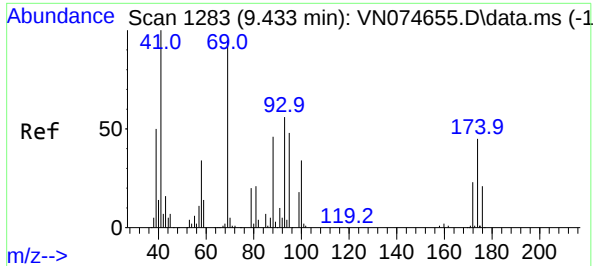
Tgt Ion: 62 Resp: 27649  
Ion Ratio Lower Upper  
62 100  
98 12.6 0.0 19.4



#43  
Isopropyl Acetate  
Concen: 0.580 ug/l  
RT: 8.392 min Scan# 1106  
Delta R.T. -0.024 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

Tgt Ion: 43 Resp: 21321  
Ion Ratio Lower Upper  
43 100  
61 24.1 21.9 32.9  
87 0.3 12.0 18.0#

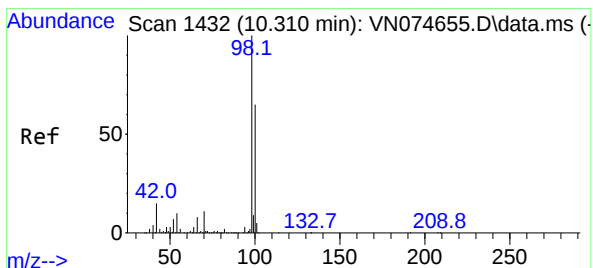
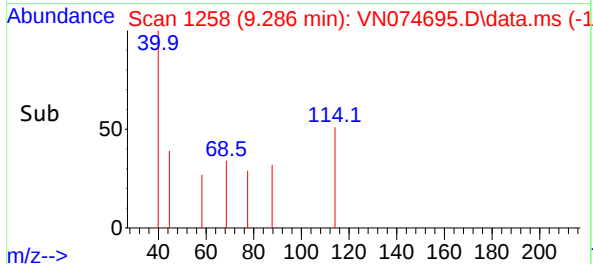
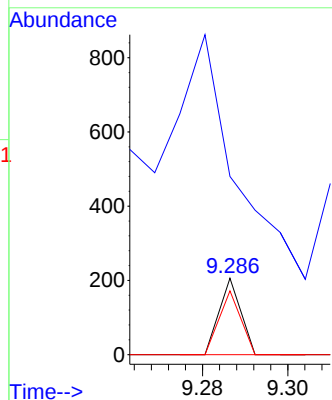
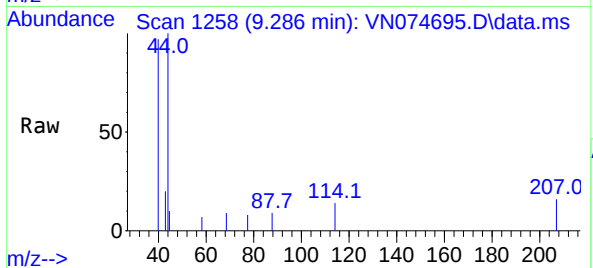




#49  
1,4-Dioxane  
Concen: 0.253 ug/l  
RT: 9.286 min Scan# 11  
Delta R.T. -0.147 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

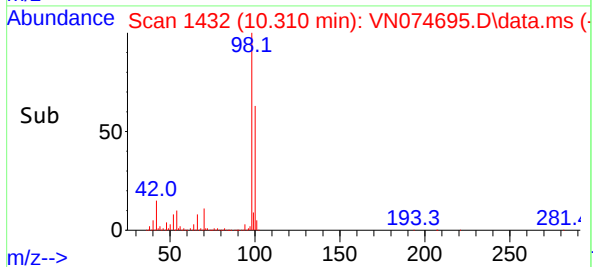
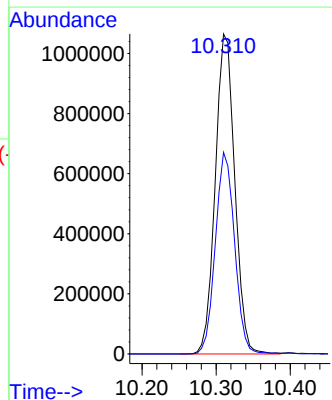
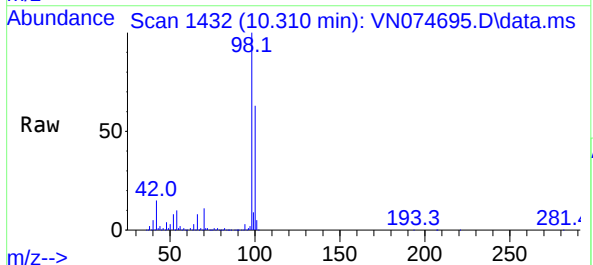
Instrument :  
MSVOA\_N  
ClientSampleId :

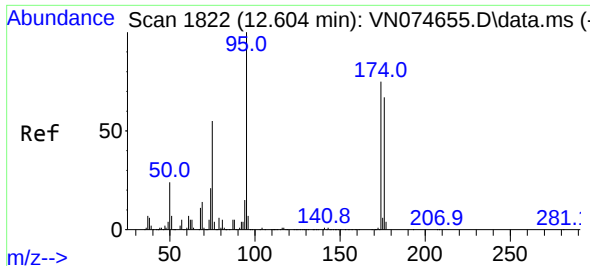
Tgt Ion: 88 Resp: 73  
Ion Ratio Lower Upper  
88 100  
43 1912.3 20.2 30.4#  
58 83.6 54.2 81.4#



#50  
Toluene-d8  
Concen: 47.722 ug/l  
RT: 10.310 min Scan# 1432  
Delta R.T. -0.000 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

Tgt Ion: 98 Resp: 1948296  
Ion Ratio Lower Upper  
98 100  
100 62.2 52.6 78.8

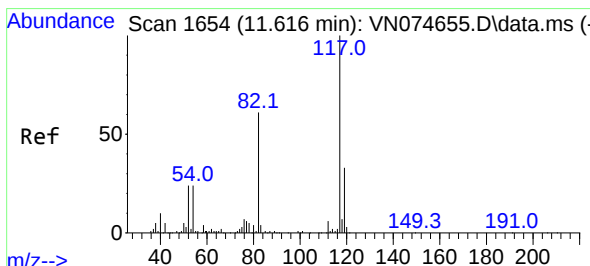
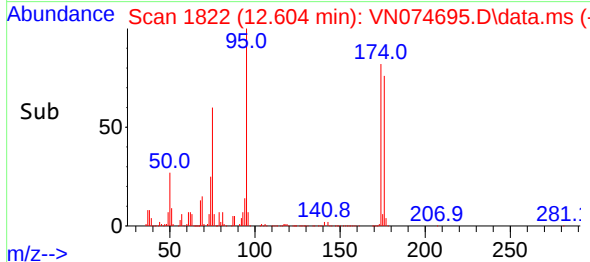
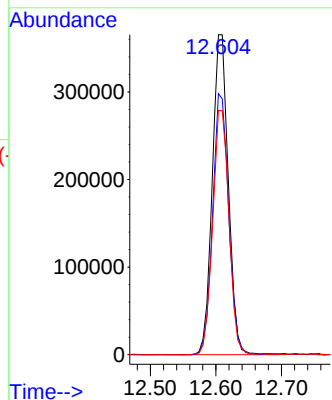
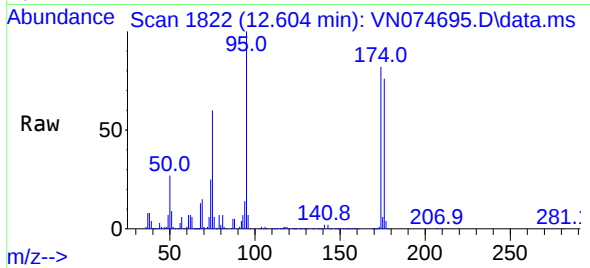




#62  
4-Bromofluorobenzene  
Concen: 47.784 ug/l  
RT: 12.604 min Scan# 1822  
Delta R.T. -0.000 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

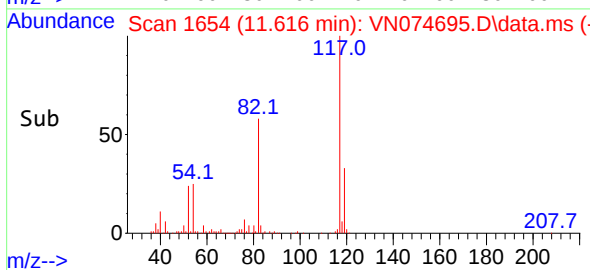
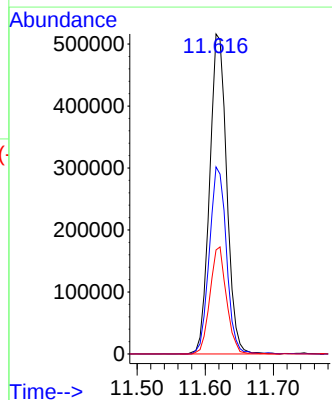
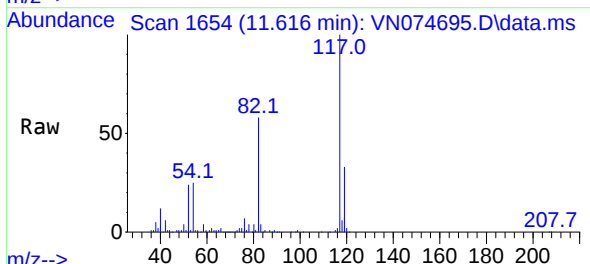
Instrument :  
MSVOA\_N  
ClientSampleId :

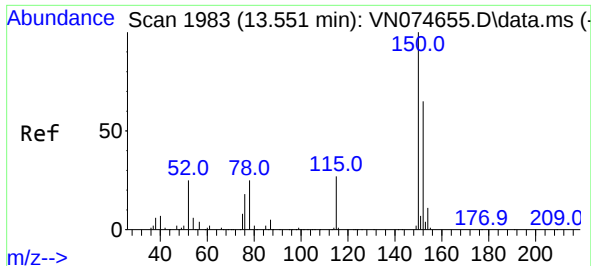
Tgt Ion: 95 Resp: 618585  
Ion Ratio Lower Upper  
95 100  
174 81.8 0.0 167.6  
176 77.3 0.0 163.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.616 min Scan# 1654  
Delta R.T. -0.000 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

Tgt Ion: 117 Resp: 900546  
Ion Ratio Lower Upper  
117 100  
82 58.4 44.2 66.2  
119 32.5 25.4 38.0

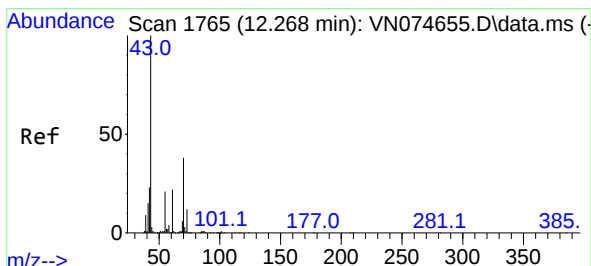
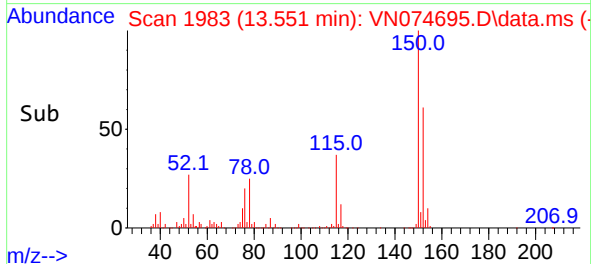
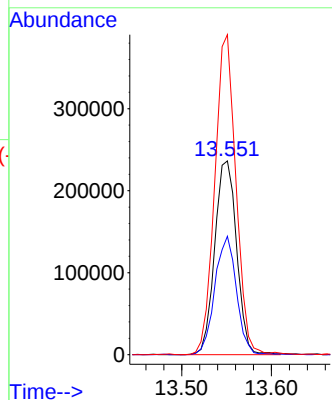
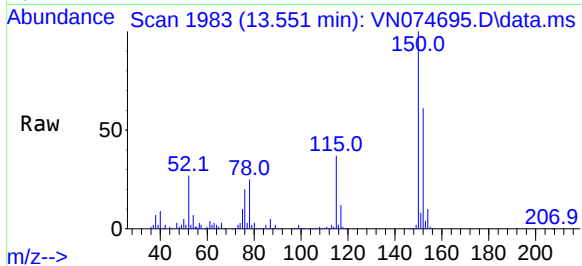




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.551 min Scan# 1983  
Delta R.T. -0.000 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

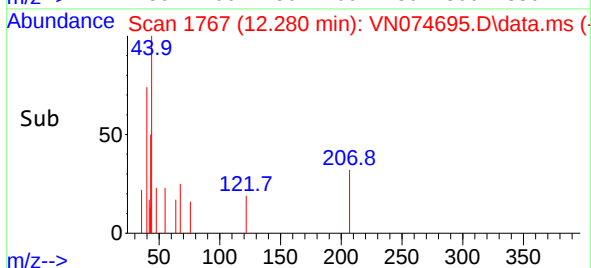
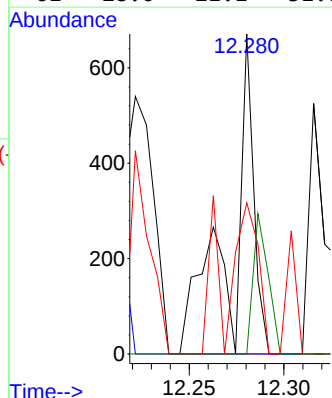
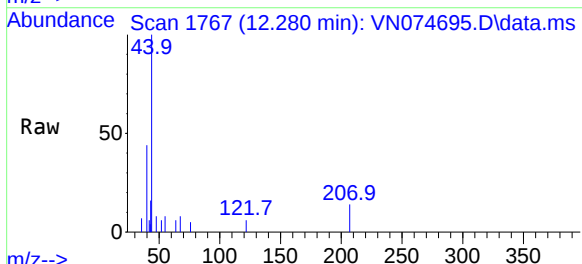
Instrument :  
MSVOA\_N  
ClientSampleId :

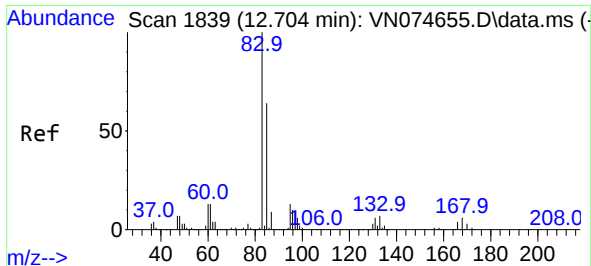
Tgt Ion:152 Resp: 401039  
Ion Ratio Lower Upper  
152 100  
115 60.5 28.9 86.7  
150 158.9 0.0 356.2



#74  
N-ethyl acetate  
Concen: Below Cal  
RT: 12.280 min Scan# 1767  
Delta R.T. 0.012 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

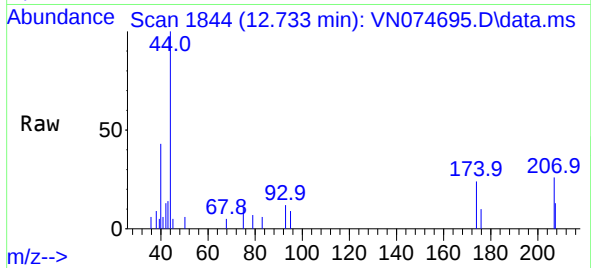
Tgt Ion: 43 Resp: 567  
Ion Ratio Lower Upper  
43 100  
70 0.0 39.0 58.4#  
55 47.3 21.1 31.7#  
61 28.0 21.1 31.7



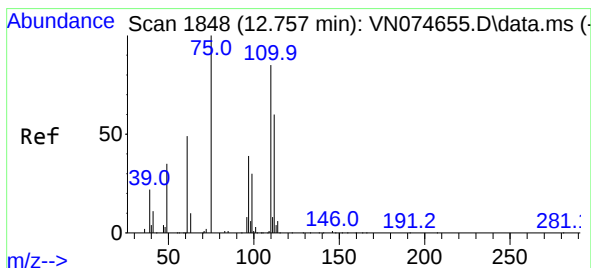
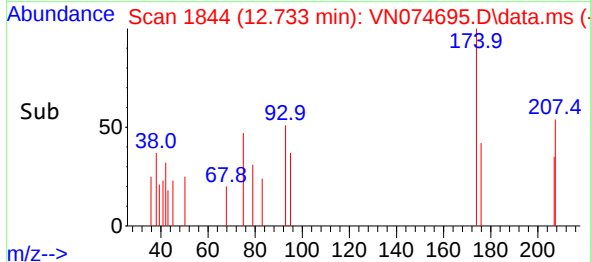
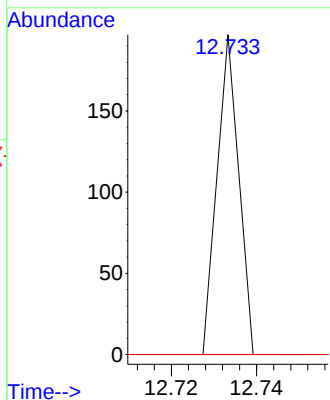


#75  
1,1,2,2-Tetrachloroethane  
Concen: Below Cal  
RT: 12.733 min Scan# 1844  
Delta R.T. 0.029 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

Instrument :  
MSVOA\_N  
ClientSampleId :

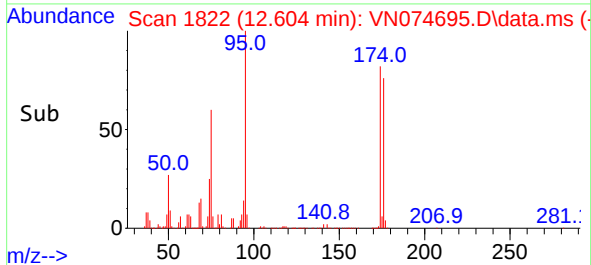
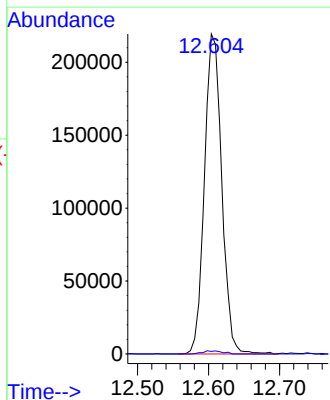
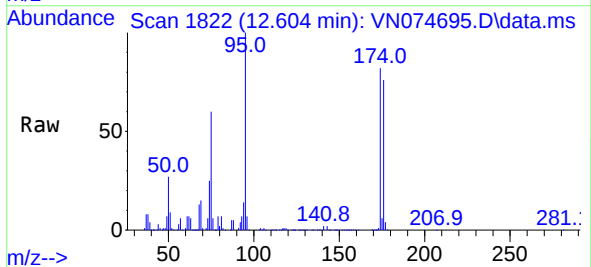


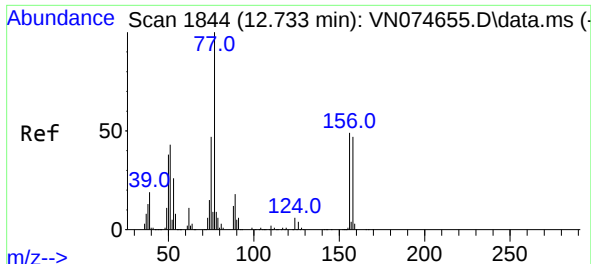
Tgt Ion: 83 Resp: 69  
Ion Ratio Lower Upper  
83 100  
131 0.0 5.3 15.9#  
85 0.0 32.3 96.9#



#76  
1,2,3-Trichloropropane  
Concen: 41.119 ug/l  
RT: 12.604 min Scan# 1822  
Delta R.T. -0.153 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

Tgt Ion: 75 Resp: 372272  
Ion Ratio Lower Upper  
75 100  
77 1.1 98.5 295.5#

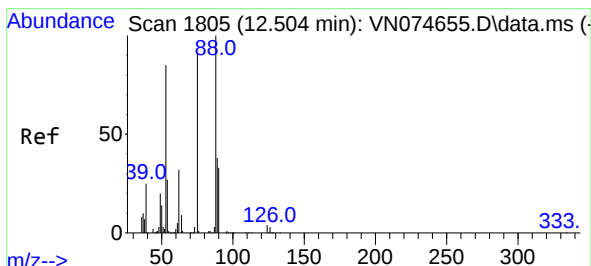
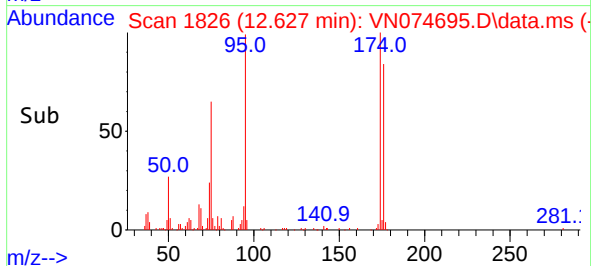
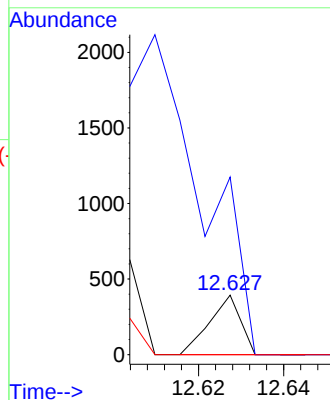
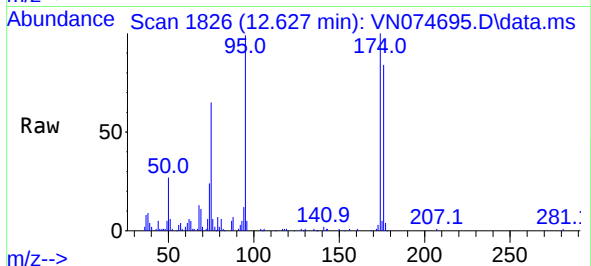




#77  
Bromobenzene  
Concen: Below Cal  
RT: 12.627 min Scan# 1826  
Delta R.T. -0.106 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion:156 Resp: 200  
Ion Ratio Lower Upper  
156 100  
77 0.0 100.5 301.5#  
158 0.0 48.9 146.6#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 77.572 ug/l  
RT: 12.604 min Scan# 1822  
Delta R.T. 0.100 min  
Lab File: VN074695.D  
Acq: 01 Oct 2022 07:14

Tgt Ion: 75 Resp: 372272  
Ion Ratio Lower Upper  
75 100  
53 0.1 78.0 117.0#  
89 0.0 37.2 55.8#

