

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN070622\  
 Data File : VN073355.D  
 Acq On : 06 Jul 2022 19:17  
 Operator : JC\MD  
 Sample : N3593-01  
 Misc : 4.41g/5mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 20220483A-1A

Quant Time: Jul 07 04:25:38 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N062822W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 29 01:54:03 2022  
 Response via : Initial Calibration

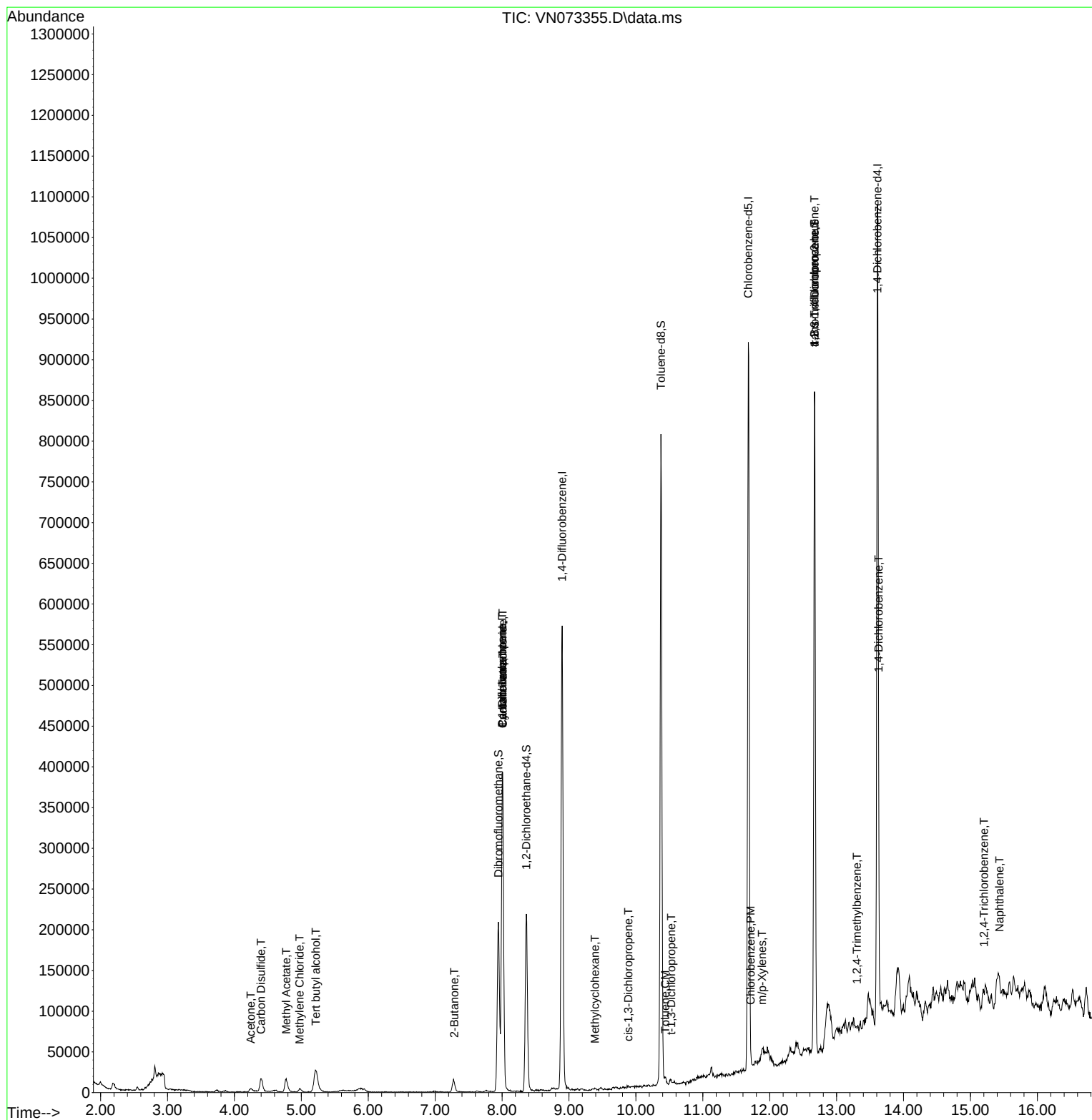
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min)  |
|-------------------------------|--------|-------|----------|----------|--------|-----------|
| -----                         |        |       |          |          |        |           |
| Internal Standards            |        |       |          |          |        |           |
| 1) Pentafluorobenzene         | 8.004  | 168   | 299919   | 50.000   | ug/l   | -0.01     |
| 34) 1,4-Difluorobenzene       | 8.898  | 114   | 501567   | 50.000   | ug/l   | 0.00      |
| 63) Chlorobenzene-d5          | 11.680 | 117   | 519023   | 50.000   | ug/l   | 0.00      |
| 72) 1,4-Dichlorobenzene-d4    | 13.610 | 152   | 273183   | 50.000   | ug/l   | 0.00      |
| System Monitoring Compounds   |        |       |          |          |        |           |
| 33) 1,2-Dichloroethane-d4     | 8.363  | 65    | 181599   | 41.943   | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 83.880%   |
| 35) Dibromofluoromethane      | 7.945  | 113   | 150446   | 45.084   | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 90.160%   |
| 50) Toluene-d8                | 10.374 | 98    | 543524   | 45.860   | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 91.720%   |
| 62) 4-Bromofluorobenzene      | 12.668 | 95    | 280424   | 61.569   | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 123.140%# |
| Target Compounds              |        |       |          |          |        |           |
|                               |        |       |          |          | Qvalue |           |
| 11) Tert butyl alcohol        | 5.216  | 59    | 29381    | 28.013   | ug/l # | 73        |
| 16) Acetone                   | 4.245  | 43    | 9471     | 3.897    | ug/l   | 95        |
| 17) Carbon Disulfide          | 4.398  | 76    | 37713    | 4.119    | ug/l   | 100       |
| 18) Methyl Acetate            | 4.775  | 43    | 34065    | 5.002    | ug/l   | 92        |
| 20) Methylene Chloride        | 4.975  | 84    | 3142     | 0.736    | ug/l # | 82        |
| 25) 2-Butanone                | 7.286  | 43    | 6388     | 1.651    | ug/l # | 88        |
| 31) Cyclohexane               | 8.010  | 56    | 6896     | 0.973    | ug/l # | 1         |
| 36) 1,1-Dichloropropene       | 8.004  | 75    | 23866    | 4.648    | ug/l # | 50        |
| 38) Carbon Tetrachloride      | 8.010  | 117   | 30085    | 5.666    | ug/l # | 17        |
| 39) Methylcyclohexane         | 9.386  | 83    | 1403     | 0.219    | ug/l # | 20        |
| 52) Toluene                   | 10.439 | 92    | 2314     | 0.236    | ug/l # | 53        |
| 53) t-1,3-Dichloropropene     | 10.527 | 75    | 2168     | 0.371    | ug/l # | 72        |
| 54) cis-1,3-Dichloropropene   | 9.886  | 75    | 1296     | 0.205    | ug/l # | 54        |
| 65) Chlorobenzene             | 11.716 | 112   | 2565     | 0.219    | ug/l   | 89        |
| 68) m/p-Xylenes               | 11.886 | 106   | 3591     | 0.446    | ug/l   | 78        |
| 76) 1,2,3-Trichloropropane    | 12.668 | 75    | 142723   | 19.980   | ug/l # | 1         |
| 81) trans-1,4-Dichloro-2-b... | 12.668 | 75    | 142723   | 54.795   | ug/l # | 10        |
| 84) 1,2,4-Trimethylbenzene    | 13.304 | 105   | 5628     | 0.293    | ug/l   | 96        |
| 88) 1,4-Dichlorobenzene       | 13.627 | 146   | 5200     | 0.527    | ug/l # | 68        |
| 93) 1,2,4-Trichlorobenzene    | 15.204 | 180   | 1172     | 0.225    | ug/l # | 72        |
| 95) Naphthalene               | 15.433 | 128   | 27244    | 1.294    | ug/l # | 78        |
| -----                         |        |       |          |          |        |           |

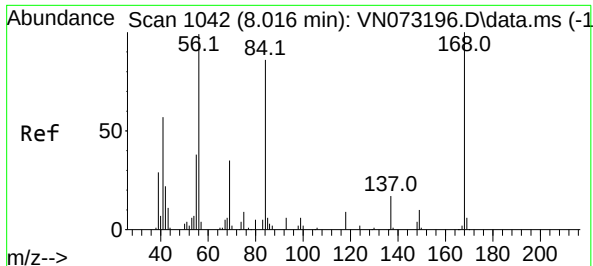
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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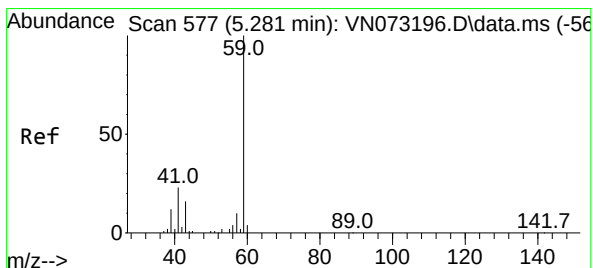
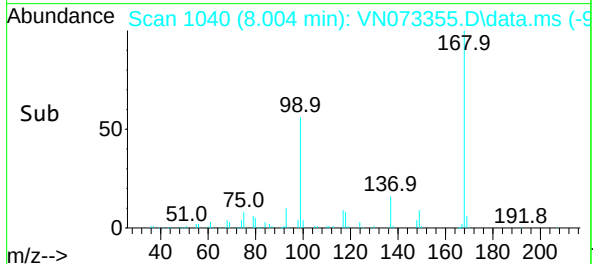
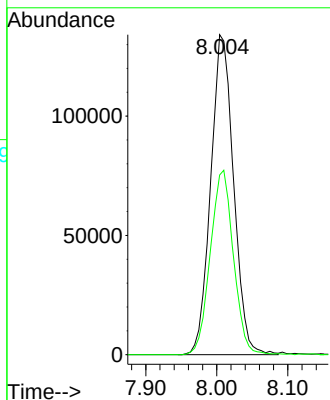
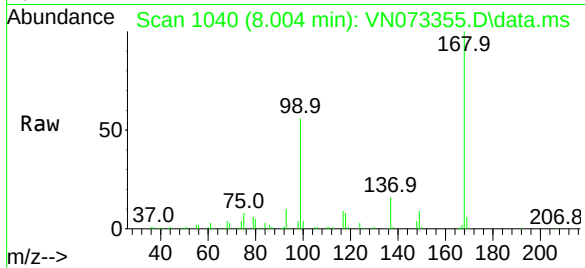




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.004 min Scan# 1  
Delta R.T. -0.012 min  
Lab File: VN073355.D  
Acq: 06 Jul 2022 19:17

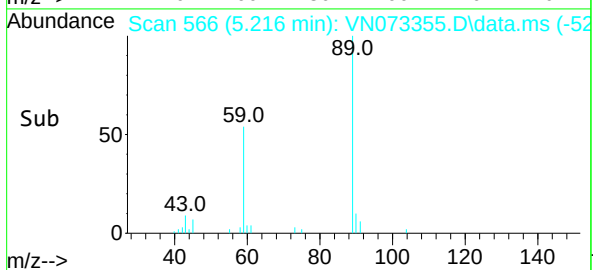
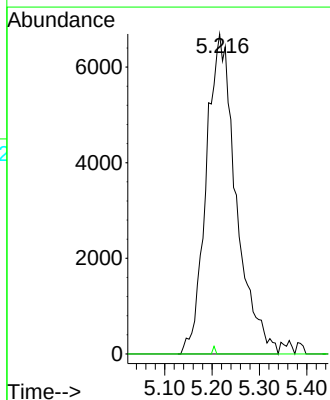
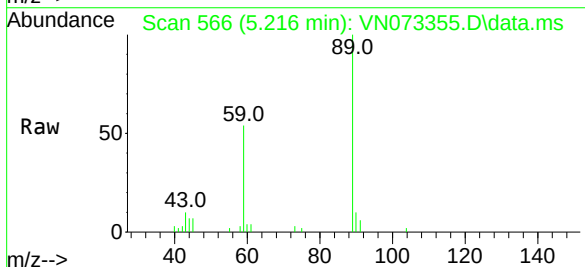
Instrument :  
MSVOA\_N  
ClientSampleId :  
20220483A-1A

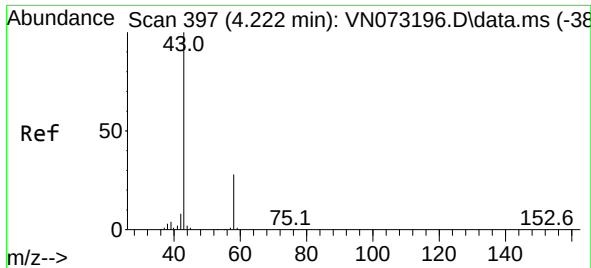
Tgt Ion:168 Resp: 299919  
Ion Ratio Lower Upper  
168 100  
99 56.1 42.3 63.5



#11  
Tert butyl alcohol  
Concen: 28.013 ug/l  
RT: 5.216 min Scan# 566  
Delta R.T. -0.065 min  
Lab File: VN073355.D  
Acq: 06 Jul 2022 19:17

Tgt Ion: 59 Resp: 29381  
Ion Ratio Lower Upper  
59 100  
57 0.2 8.3 12.5#





#16

Acetone

Concen: 3.897 ug/l

RT: 4.245 min Scan# 401

Delta R.T. 0.023 min

Lab File: VN073355.D

Acq: 06 Jul 2022 19:17

Instrument :

MSVOA\_N

ClientSampleId :

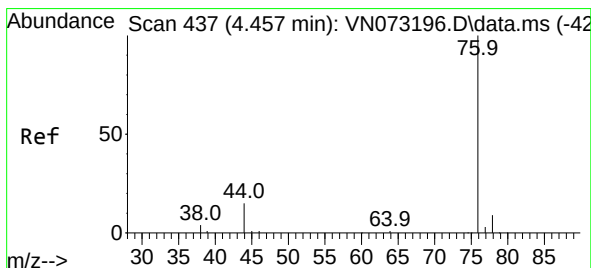
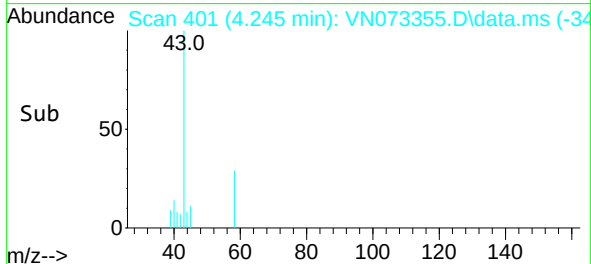
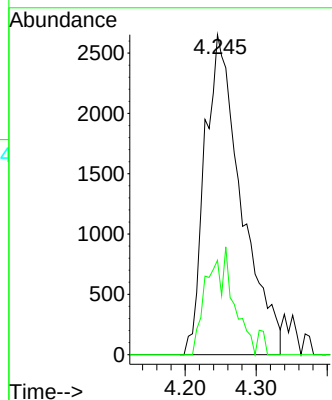
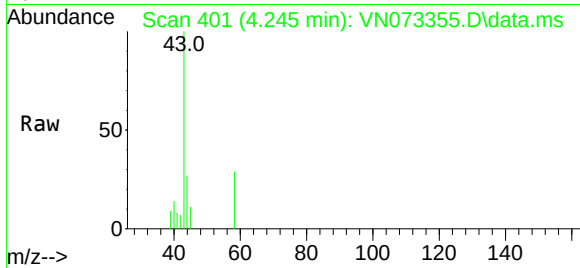
20220483A-1A

Tgt Ion: 43 Resp: 9471

Ion Ratio Lower Upper

43 100

58 29.5 26.0 39.0



#17

Carbon Disulfide

Concen: 4.119 ug/l

RT: 4.398 min Scan# 427

Delta R.T. -0.059 min

Lab File: VN073355.D

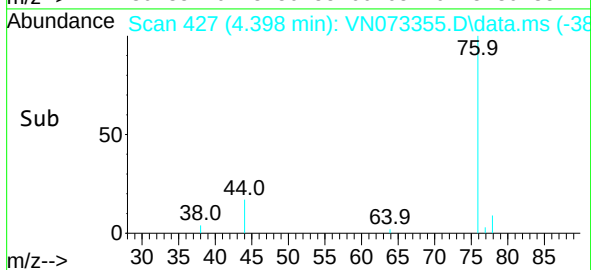
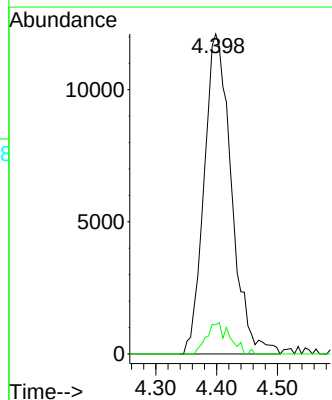
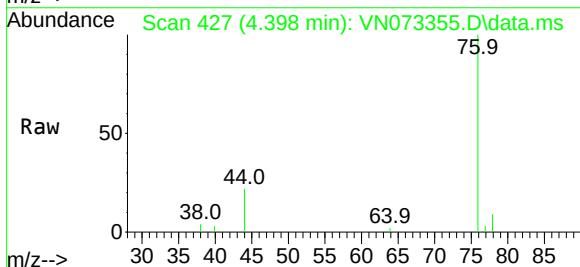
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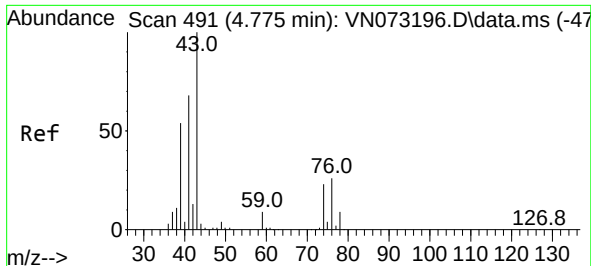
Tgt Ion: 76 Resp: 37713

Ion Ratio Lower Upper

76 100

78 9.1 7.2 10.8

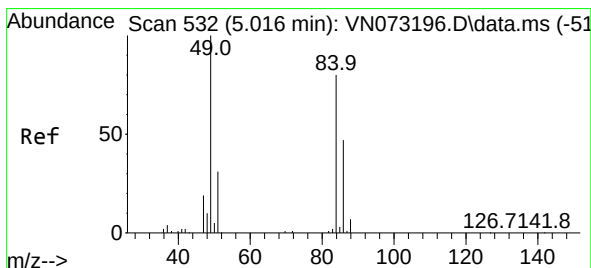
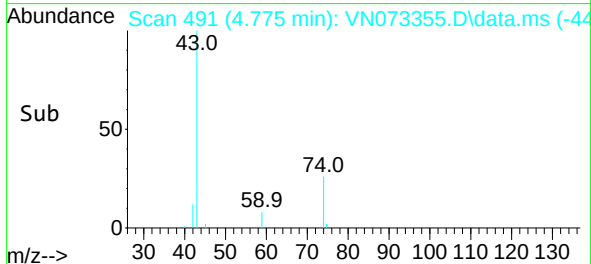
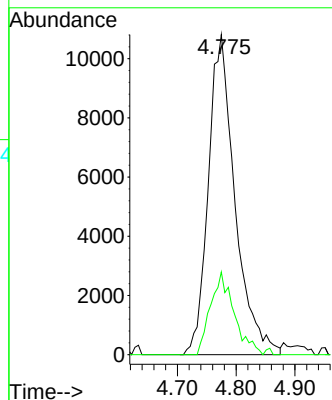
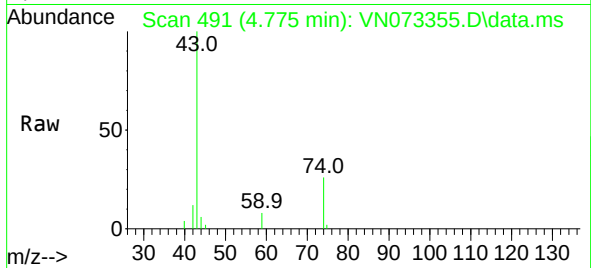




#18  
Methyl Acetate  
Concen: 5.002 ug/l  
RT: 4.775 min Scan# 491  
Delta R.T. -0.000 min  
Lab File: VN073355.D  
Acq: 06 Jul 2022 19:17

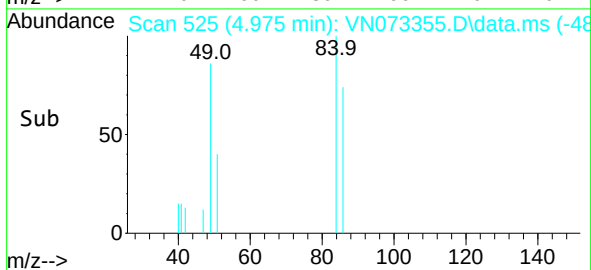
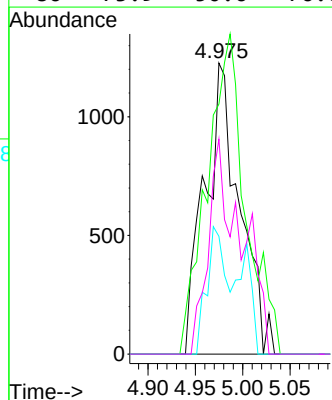
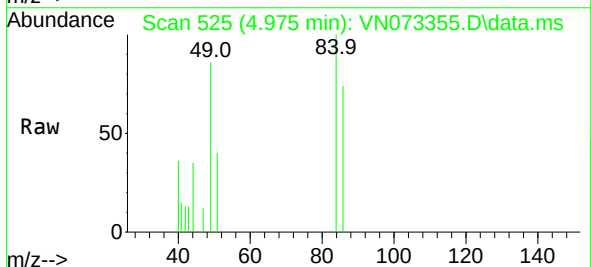
Instrument :  
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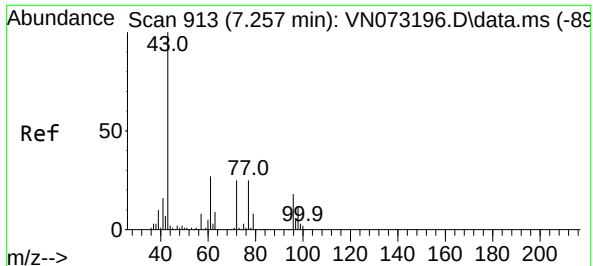
Tgt Ion: 43 Resp: 34065  
Ion Ratio Lower Upper  
43 100  
74 22.8 21.6 32.4



#20  
Methylene Chloride  
Concen: 0.736 ug/l  
RT: 4.975 min Scan# 525  
Delta R.T. -0.041 min  
Lab File: VN073355.D  
Acq: 06 Jul 2022 19:17

Tgt Ion: 84 Resp: 3142  
Ion Ratio Lower Upper  
84 100  
49 86.0 88.3 132.5#  
51 40.5 28.2 42.2  
86 73.9 50.6 76.0

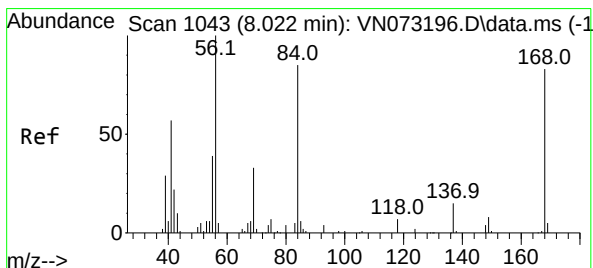
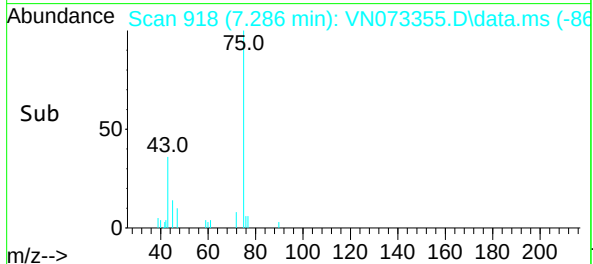
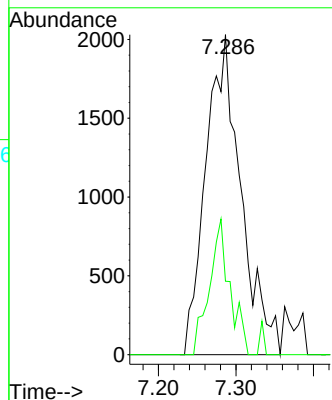
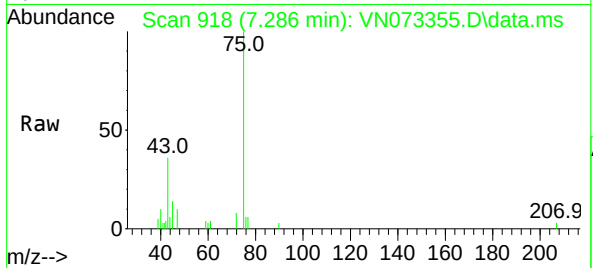




#25  
2-Butanone  
Concen: 1.651 ug/l  
RT: 7.286 min Scan# 913  
Delta R.T. 0.029 min  
Lab File: VN073355.D  
Acq: 06 Jul 2022 19:17

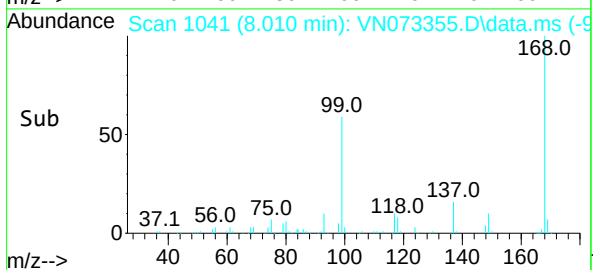
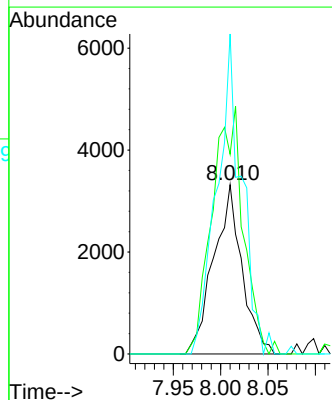
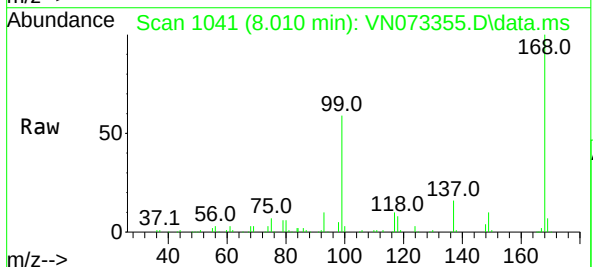
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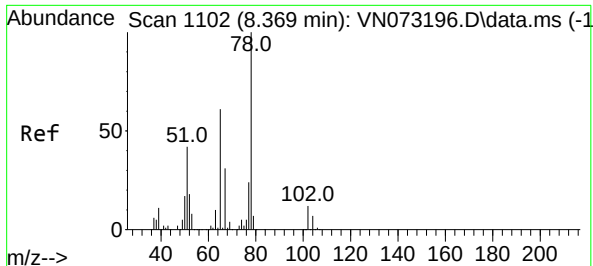
Tgt Ion: 43 Resp: 6388  
Ion Ratio Lower Upper  
43 100  
72 23.0 23.7 35.5#



#31  
Cyclohexane  
Concen: 0.973 ug/l  
RT: 8.010 min Scan# 1041  
Delta R.T. -0.012 min  
Lab File: VN073355.D  
Acq: 06 Jul 2022 19:17

Tgt Ion: 56 Resp: 6896  
Ion Ratio Lower Upper  
56 100  
69 118.0 27.8 41.8#  
84 189.0 76.9 115.3#

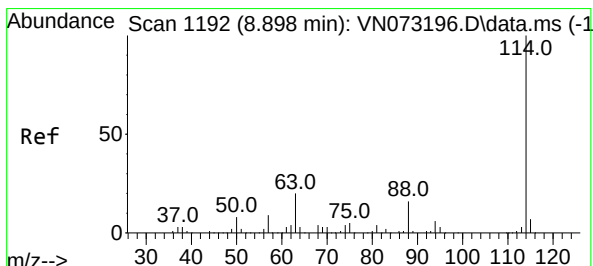
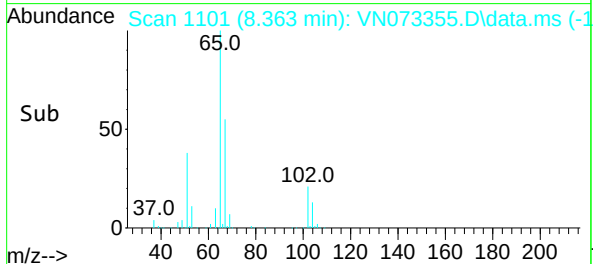
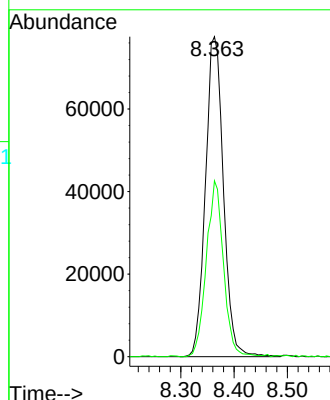
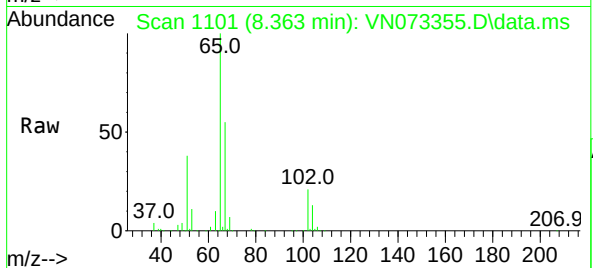




#33  
 1,2-Dichloroethane-d4  
 Concen: 41.943 ug/l  
 RT: 8.363 min Scan# 1102  
 Delta R.T. -0.006 min  
 Lab File: VN073355.D  
 Acq: 06 Jul 2022 19:17

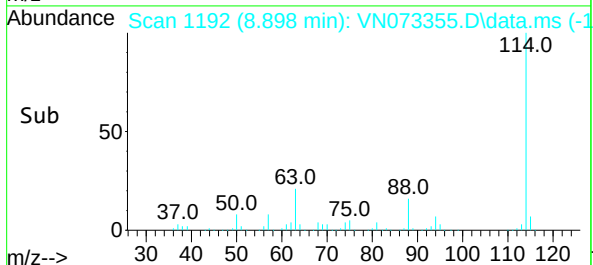
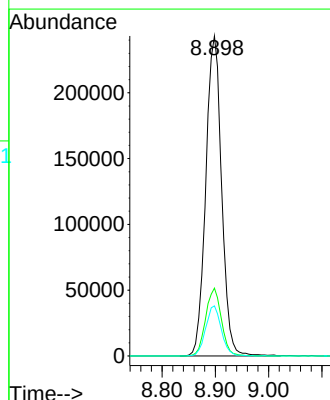
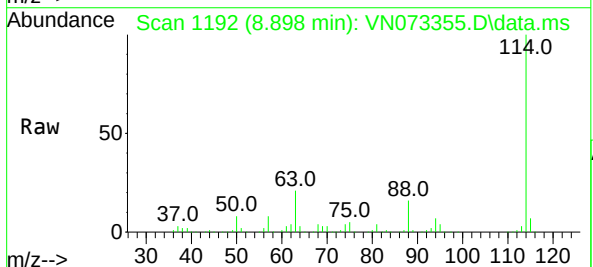
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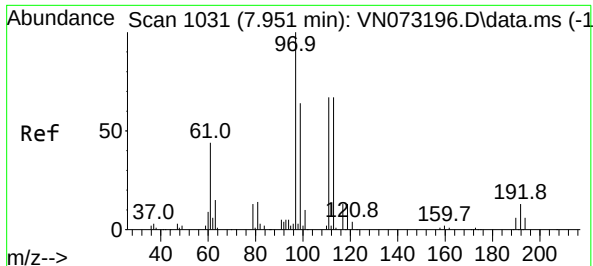
Tgt Ion: 65 Resp: 181599  
 Ion Ratio Lower Upper  
 65 100  
 67 52.3 0.0 104.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.898 min Scan# 1192  
 Delta R.T. 0.000 min  
 Lab File: VN073355.D  
 Acq: 06 Jul 2022 19:17

Tgt Ion: 114 Resp: 501567  
 Ion Ratio Lower Upper  
 114 100  
 63 21.2 0.0 40.0  
 88 15.6 0.0 32.6





#35

Dibromofluoromethane

Concen: 45.084 ug/l

RT: 7.945 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN073355.D

Acq: 06 Jul 2022 19:17

Instrument :

MSVOA\_N

ClientSampleId :

20220483A-1A

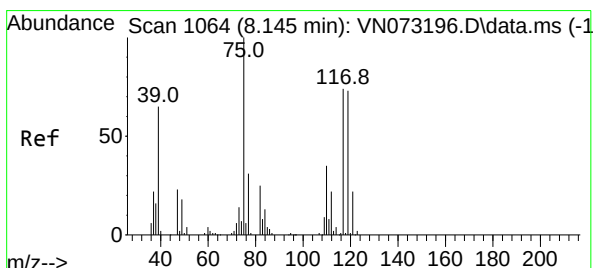
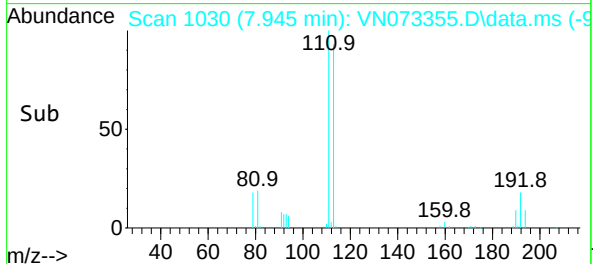
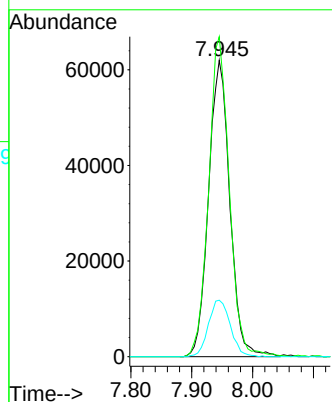
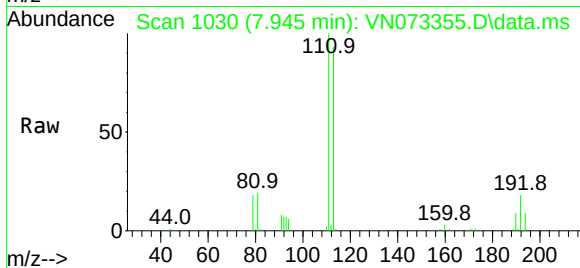
Tgt Ion:113 Resp: 150446

Ion Ratio Lower Upper

113 100

111 104.7 81.4 122.0

192 19.6 17.0 25.6



#36

1,1-Dichloropropene

Concen: 4.648 ug/l

RT: 8.004 min Scan# 1040

Delta R.T. -0.141 min

Lab File: VN073355.D

Acq: 06 Jul 2022 19:17

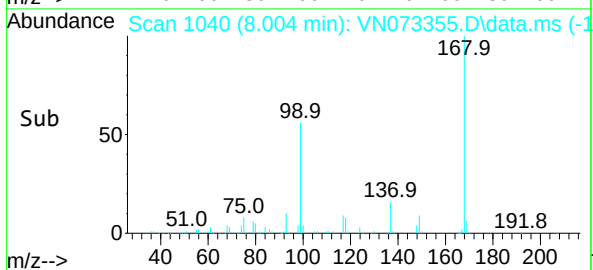
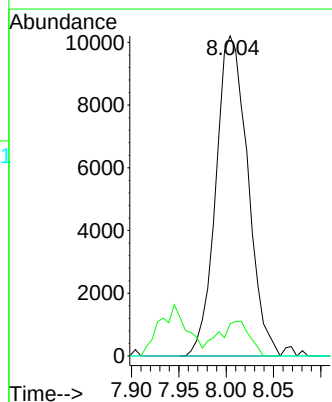
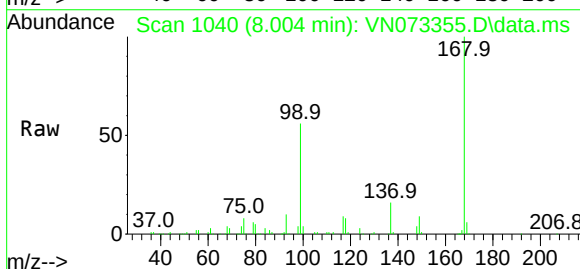
Tgt Ion: 75 Resp: 23866

Ion Ratio Lower Upper

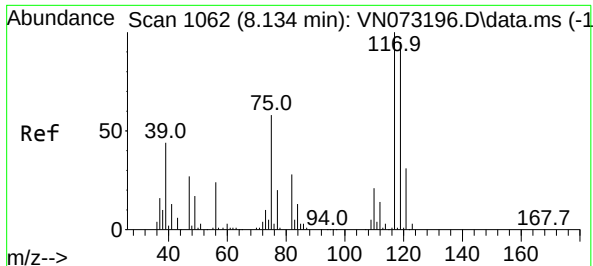
75 100

110 10.6 18.3 54.8#

77 0.0 25.1 37.7#



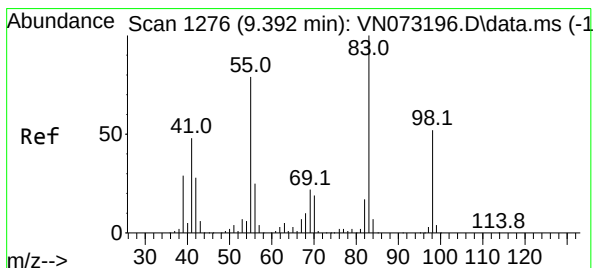
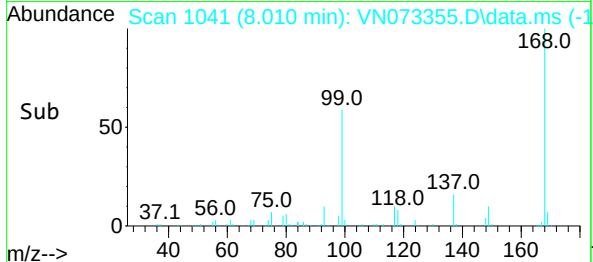
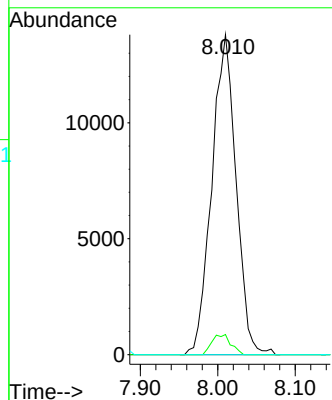
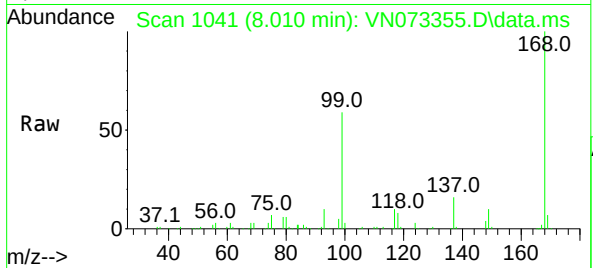




#38  
Carbon Tetrachloride  
Concen: 5.666 ug/l  
RT: 8.010 min Scan# 1062  
Delta R.T. -0.124 min  
Lab File: VN073355.D  
Acq: 06 Jul 2022 19:17

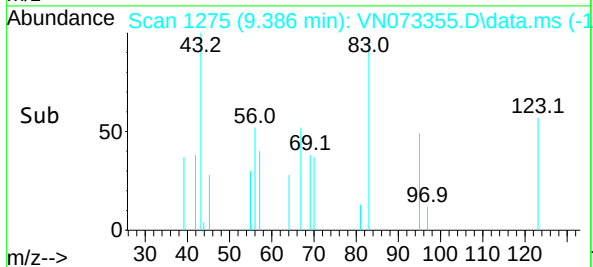
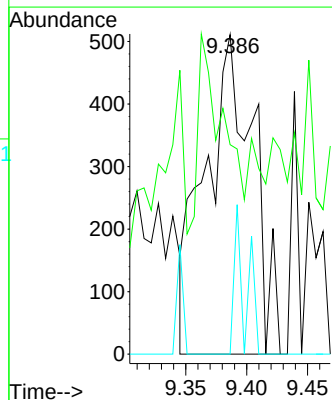
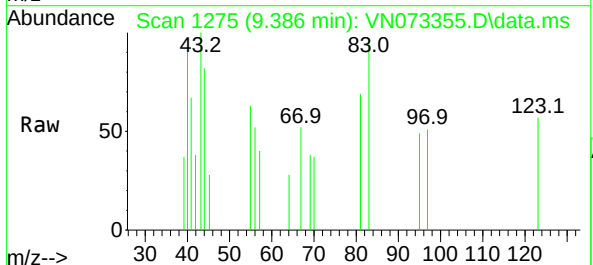
Instrument :  
MSVOA\_N  
ClientSampleId :  
20220483A-1A

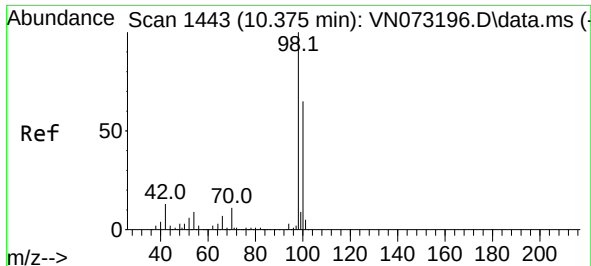
Tgt Ion:117 Resp: 30085  
Ion Ratio Lower Upper  
117 100  
119 6.3 75.8 113.8#  
121 0.0 24.6 37.0#



#39  
Methylcyclohexane  
Concen: 0.219 ug/l  
RT: 9.386 min Scan# 1275  
Delta R.T. -0.006 min  
Lab File: VN073355.D  
Acq: 06 Jul 2022 19:17

Tgt Ion: 83 Resp: 1403  
Ion Ratio Lower Upper  
83 100  
55 1.6 57.8 86.8#  
98 0.0 39.4 59.2#

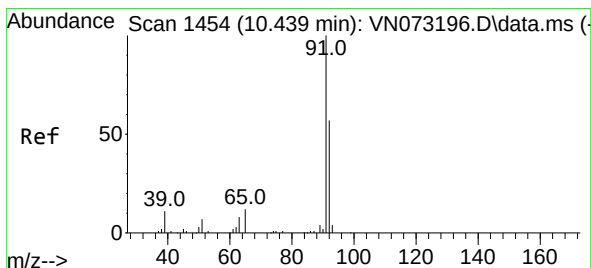
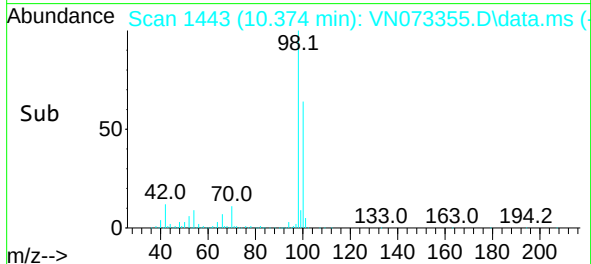
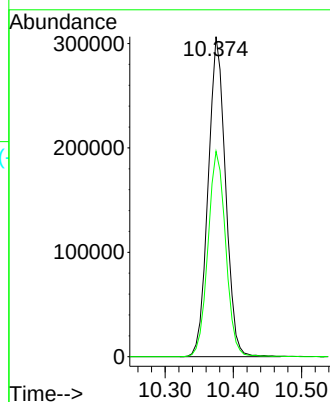
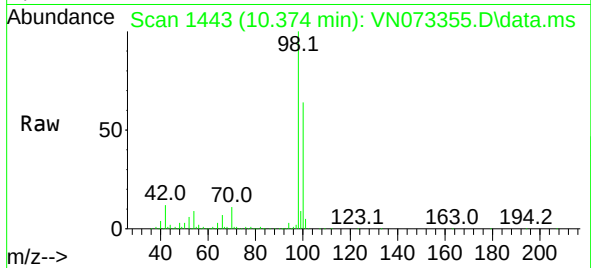




#50  
Toluene-d8  
Concen: 45.860 ug/l  
RT: 10.374 min Scan# 1443  
Delta R.T. -0.001 min  
Lab File: VN073355.D  
Acq: 06 Jul 2022 19:17

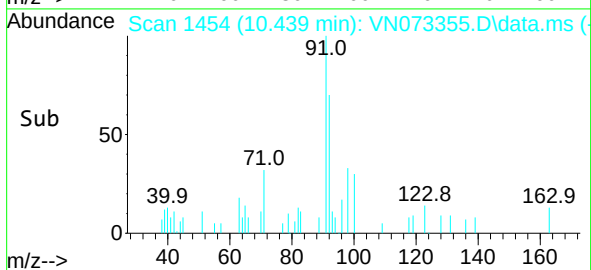
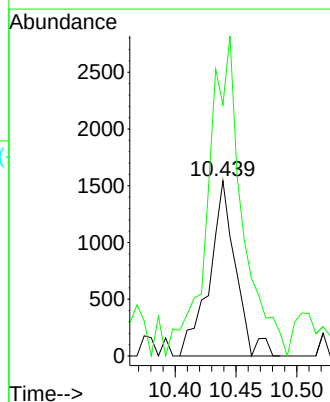
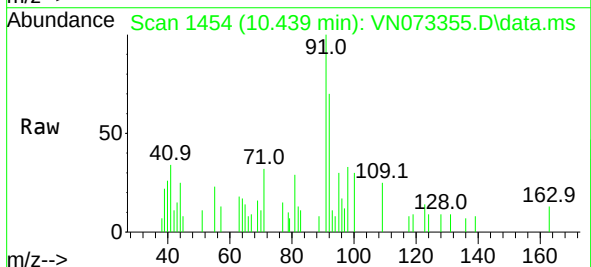
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MSVOA\_N  
ClientSampleId :  
20220483A-1A

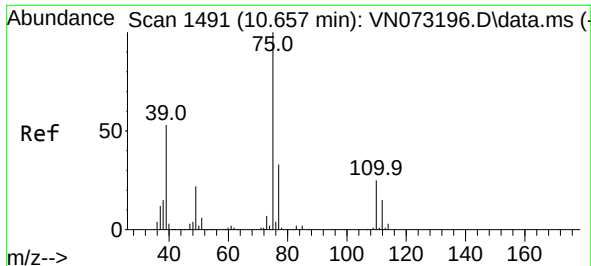
Tgt Ion: 98 Resp: 543524  
Ion Ratio Lower Upper  
98 100  
100 65.4 52.6 78.8



#52  
Toluene  
Concen: 0.236 ug/l  
RT: 10.439 min Scan# 1454  
Delta R.T. 0.000 min  
Lab File: VN073355.D  
Acq: 06 Jul 2022 19:17

Tgt Ion: 92 Resp: 2314  
Ion Ratio Lower Upper  
92 100  
91 238.2 138.6 207.8#

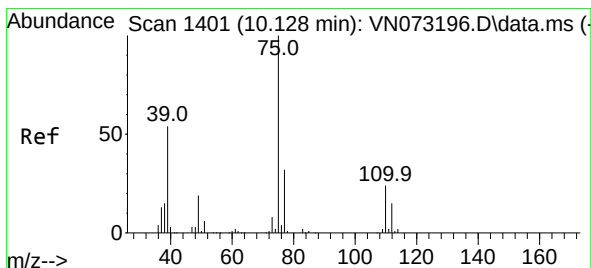
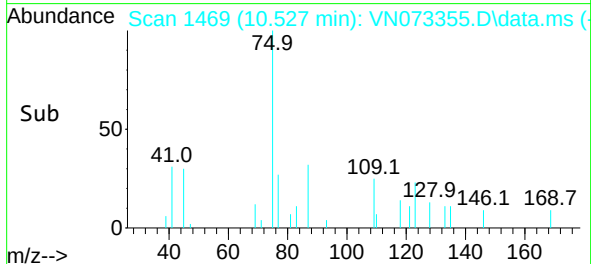
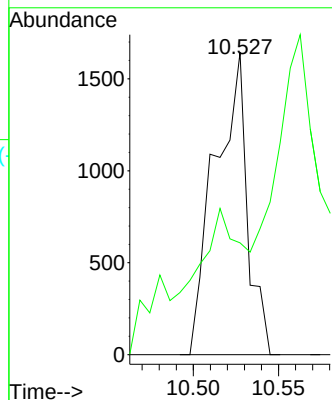
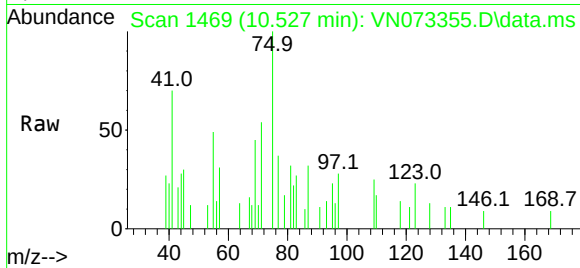




#53  
t-1,3-Dichloropropene  
Concen: 0.371 ug/l  
RT: 10.527 min Scan# 1491  
Delta R.T. -0.130 min  
Lab File: VN073355.D  
Acq: 06 Jul 2022 19:17

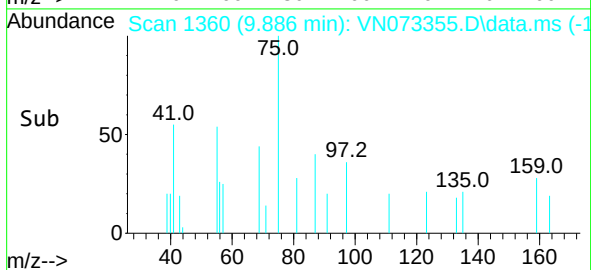
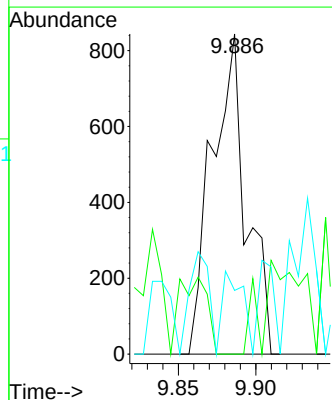
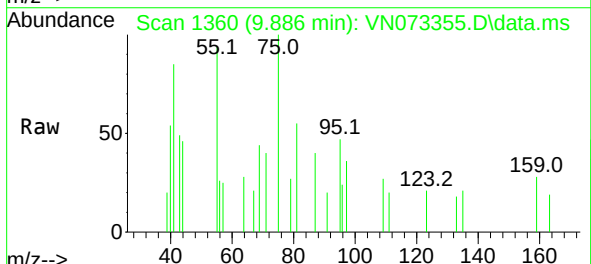
Instrument : MSVOA\_N  
ClientSampleId : 20220483A-1A

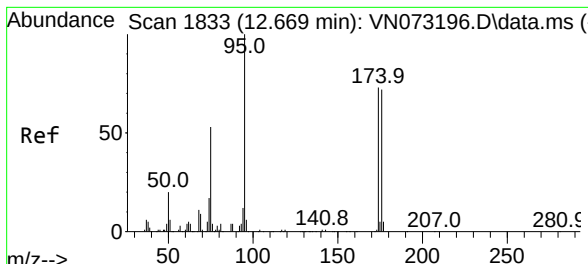
Tgt Ion: 75 Resp: 2168  
Ion Ratio Lower Upper  
75 100  
77 16.4 25.6 38.4#



#54  
cis-1,3-Dichloropropene  
Concen: 0.205 ug/l  
RT: 9.886 min Scan# 1360  
Delta R.T. -0.242 min  
Lab File: VN073355.D  
Acq: 06 Jul 2022 19:17

Tgt Ion: 75 Resp: 1296  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.2 37.8#  
39 19.9 35.7 53.5#

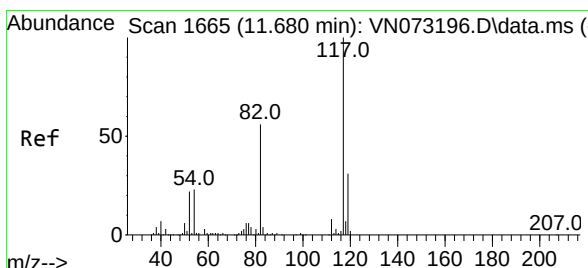
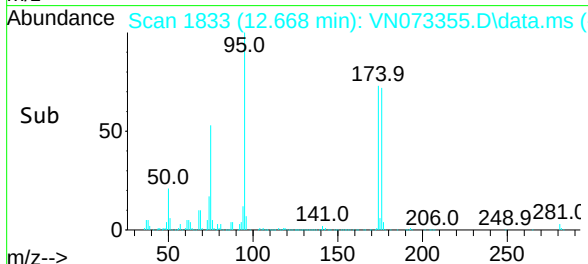
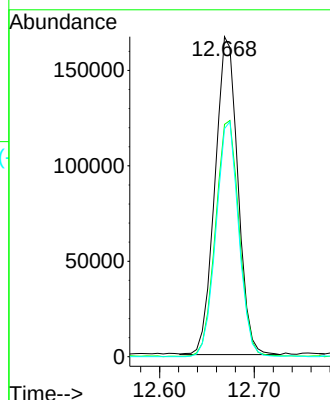
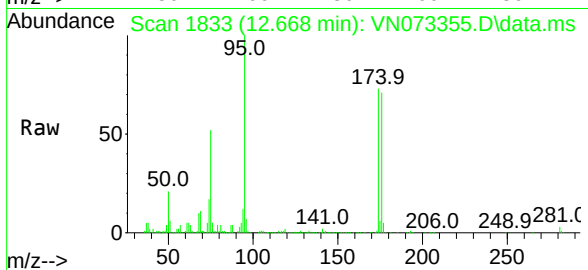




#62  
4-Bromofluorobenzene  
Concen: 61.569 ug/l  
RT: 12.668 min Scan# 1833  
Delta R.T. -0.001 min  
Lab File: VN073355.D  
Acq: 06 Jul 2022 19:17

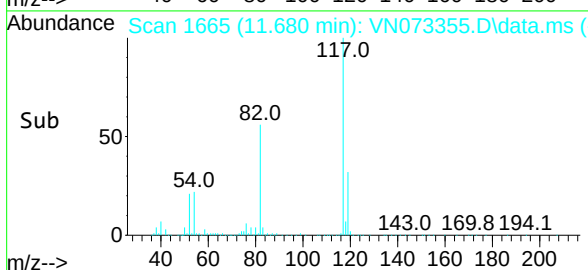
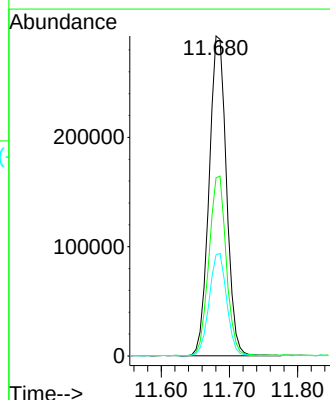
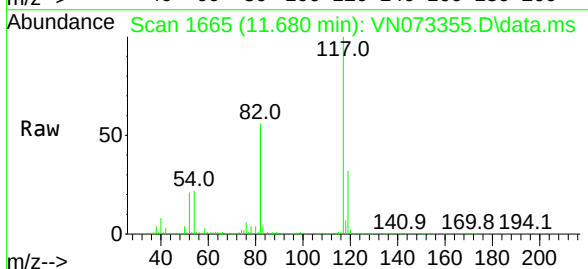
Instrument :  
MSVOA\_N  
ClientSampleId :  
20220483A-1A

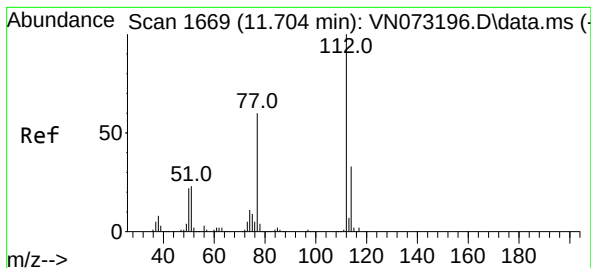
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 280424 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 76.9  | 0.0   | 167.6  |
| 176      | 73.1  | 0.0   | 163.4  |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.680 min Scan# 1665  
Delta R.T. 0.000 min  
Lab File: VN073355.D  
Acq: 06 Jul 2022 19:17

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 519023 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 55.6  | 44.2  | 66.2   |
| 119      | 31.6  | 25.4  | 38.0   |

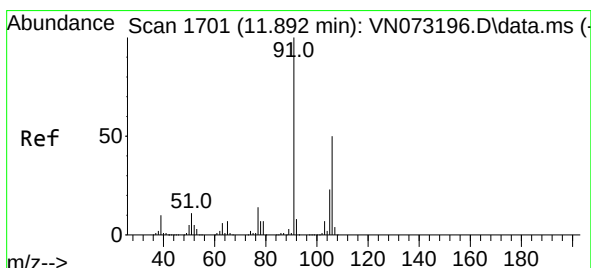
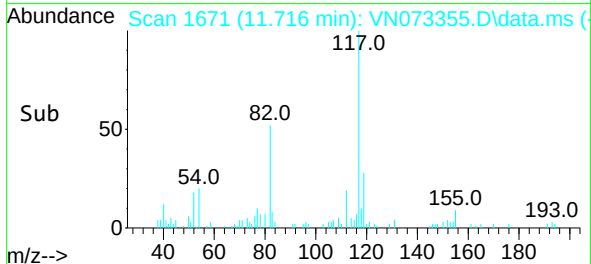
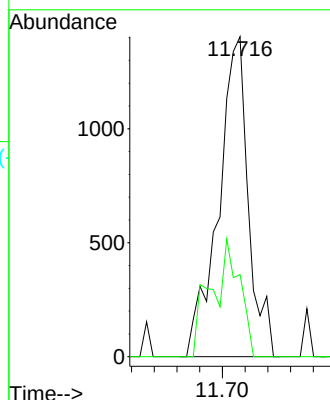
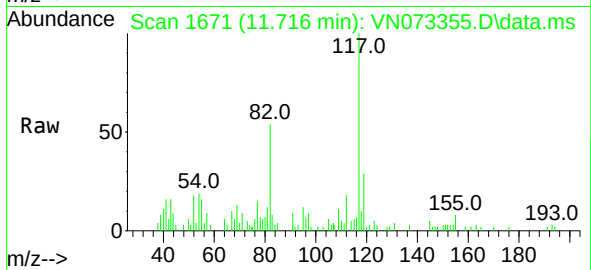




#65  
Chlorobenzene  
Concen: 0.219 ug/l  
RT: 11.716 min Scan# 1170  
Delta R.T. 0.012 min  
Lab File: VN073355.D  
Acq: 06 Jul 2022 19:17

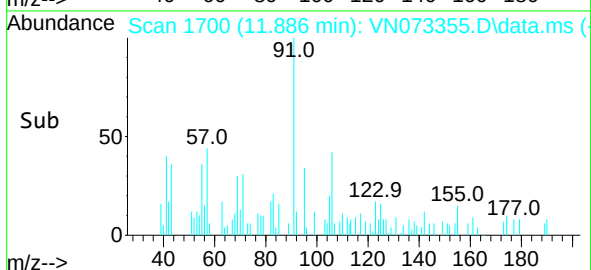
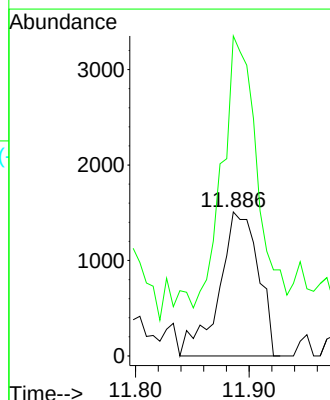
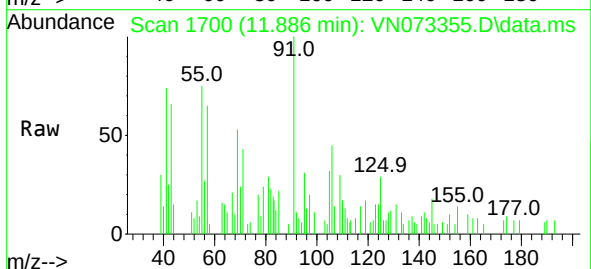
Instrument :  
MSVOA\_N  
ClientSampleId :  
20220483A-1A

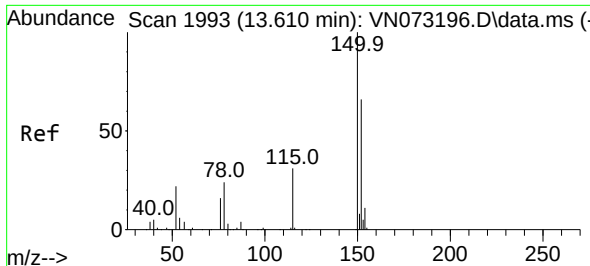
Tgt Ion:112 Resp: 2565  
Ion Ratio Lower Upper  
112 100  
114 25.6 25.4 38.2



#68  
m/p-Xylenes  
Concen: 0.446 ug/l  
RT: 11.886 min Scan# 1700  
Delta R.T. -0.006 min  
Lab File: VN073355.D  
Acq: 06 Jul 2022 19:17

Tgt Ion:106 Resp: 3591  
Ion Ratio Lower Upper  
106 100  
91 165.6 158.9 238.3

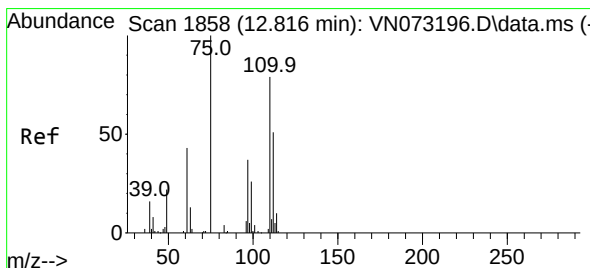
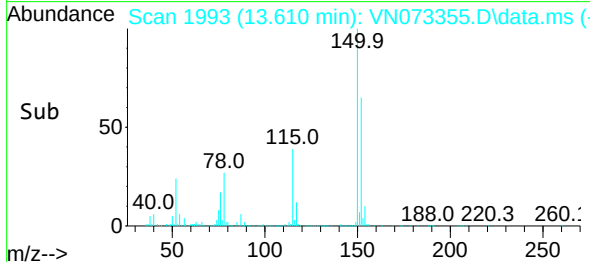
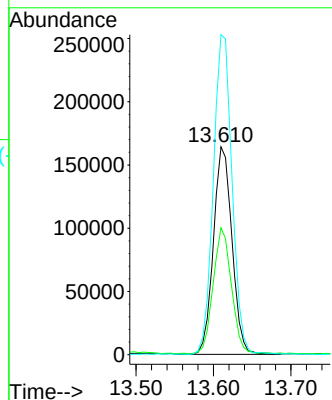
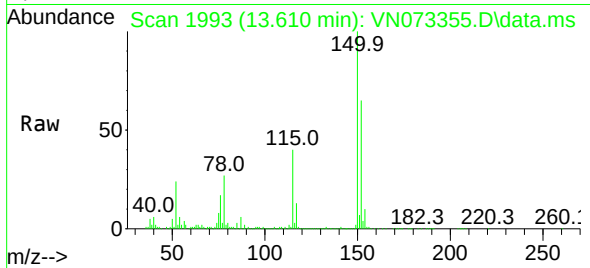




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.610 min Scan# 1993  
 Delta R.T. -0.000 min  
 Lab File: VN073355.D  
 Acq: 06 Jul 2022 19:17

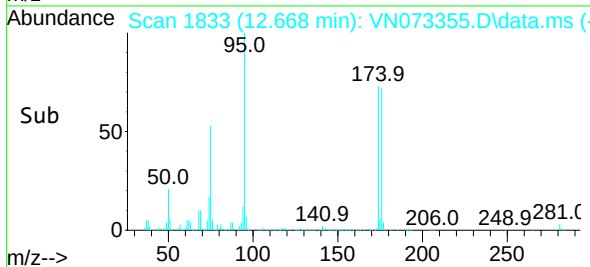
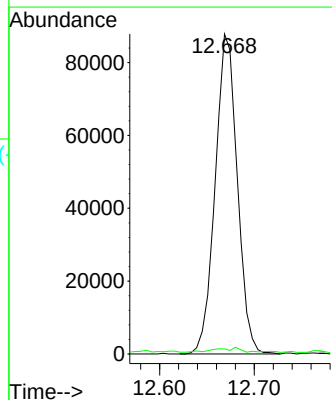
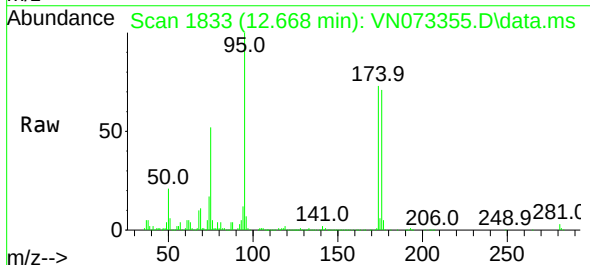
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 20220483A-1A

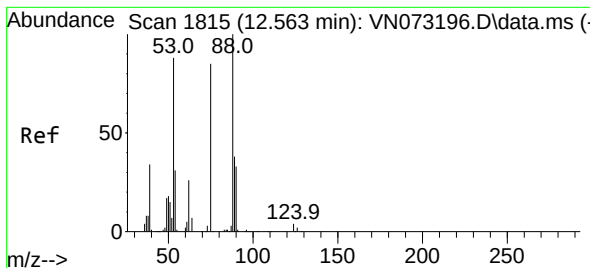
Tgt Ion:152 Resp: 273183  
 Ion Ratio Lower Upper  
 152 100  
 115 59.9 28.9 86.7  
 150 156.4 0.0 356.2



#76  
 1,2,3-Trichloropropane  
 Concen: 19.980 ug/l  
 RT: 12.668 min Scan# 1833  
 Delta R.T. -0.148 min  
 Lab File: VN073355.D  
 Acq: 06 Jul 2022 19:17

Tgt Ion: 75 Resp: 142723  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 98.5 295.5#

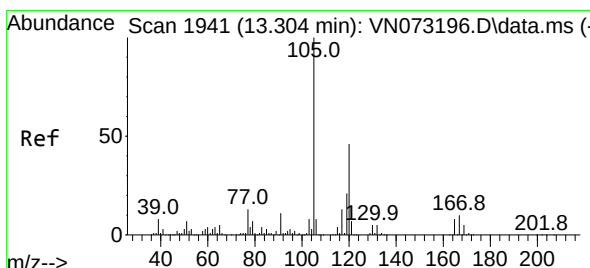
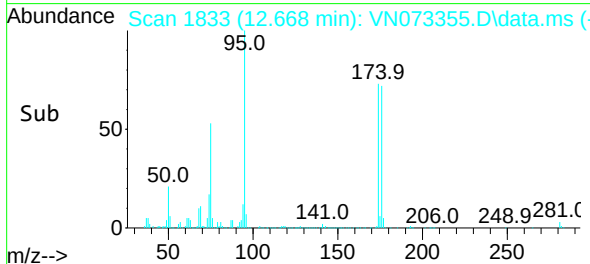
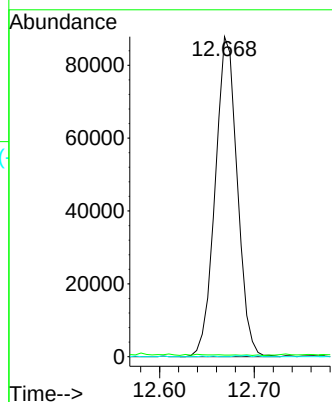
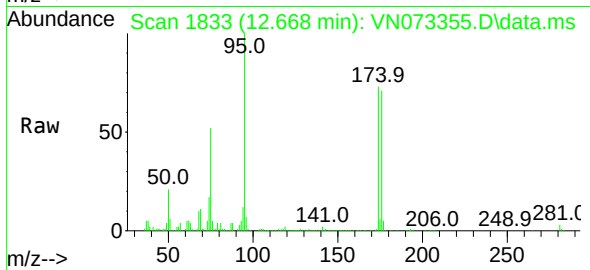




#81  
trans-1,4-Dichloro-2-butene  
Concen: 54.795 ug/l  
RT: 12.668 min Scan# 1815  
Delta R.T. 0.105 min  
Lab File: VN073355.D  
Acq: 06 Jul 2022 19:17

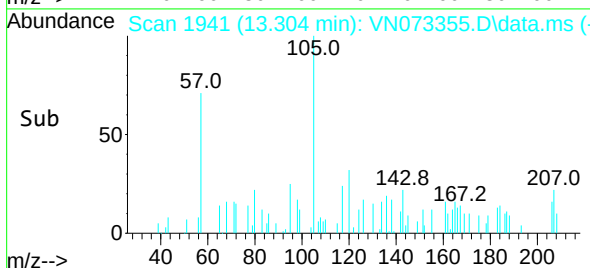
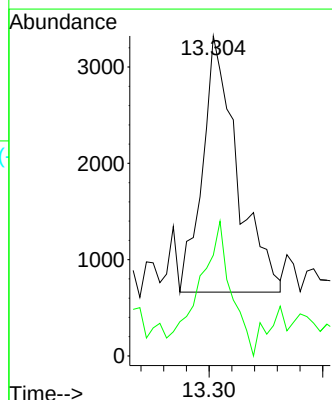
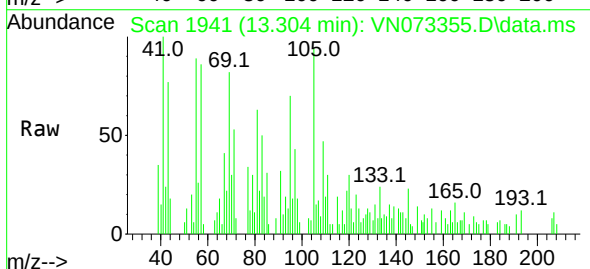
Instrument :  
MSVOA\_N  
ClientSampleId :  
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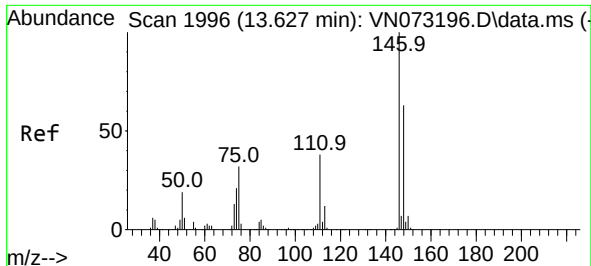
Tgt Ion: 75 Resp: 142723  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.0 117.0#  
89 0.1 37.2 55.8#



#84  
1,2,4-Trimethylbenzene  
Concen: 0.293 ug/l  
RT: 13.304 min Scan# 1941  
Delta R.T. -0.000 min  
Lab File: VN073355.D  
Acq: 06 Jul 2022 19:17

Tgt Ion: 105 Resp: 5628  
Ion Ratio Lower Upper  
105 100  
120 49.1 23.3 69.8

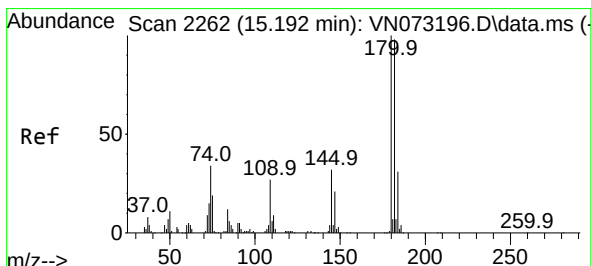
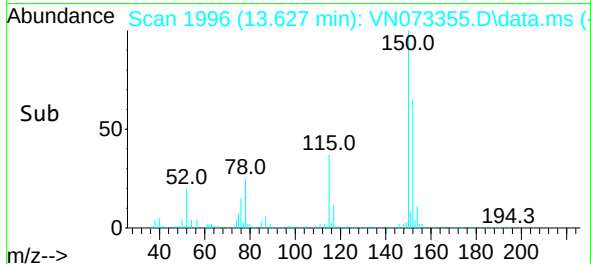
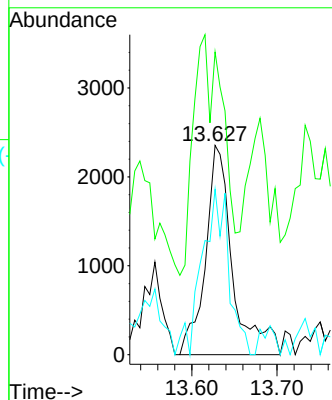
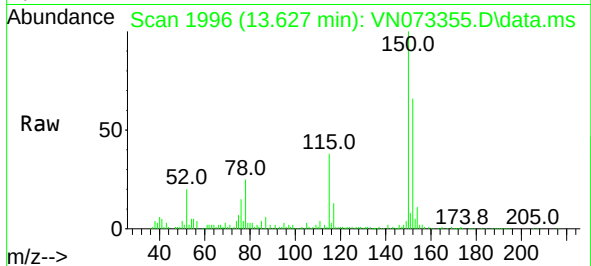




#88  
 1,4-Dichlorobenzene  
 Concen: 0.527 ug/l  
 RT: 13.627 min Scan# 1996  
 Delta R.T. 0.000 min  
 Lab File: VN073355.D  
 Acq: 06 Jul 2022 19:17

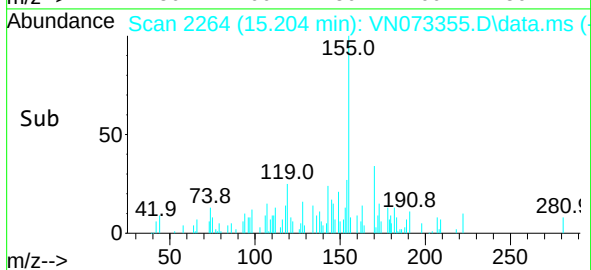
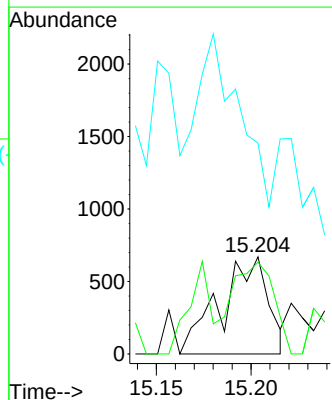
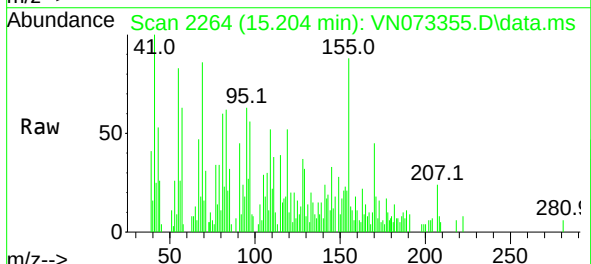
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 20220483A-1A

Tgt Ion:146 Resp: 5200  
 Ion Ratio Lower Upper  
 146 100  
 111 70.4 19.1 57.1#  
 148 78.0 31.4 94.3

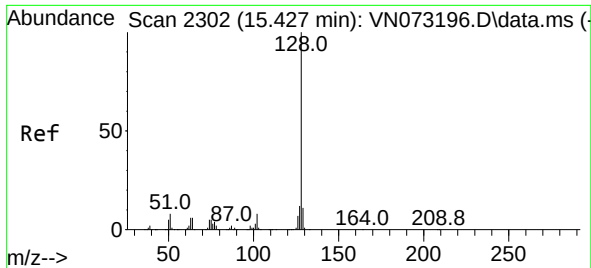


#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.225 ug/l  
 RT: 15.204 min Scan# 2264  
 Delta R.T. 0.012 min  
 Lab File: VN073355.D  
 Acq: 06 Jul 2022 19:17

Tgt Ion:180 Resp: 1172  
 Ion Ratio Lower Upper  
 180 100  
 182 75.9 47.5 142.5  
 145 0.0 14.5 43.5#







#95

Naphthalene

Concen: 1.294 ug/l

RT: 15.433 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN073355.D

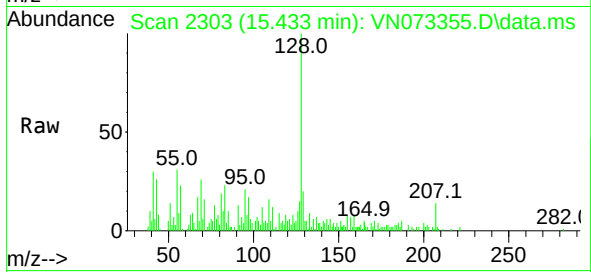
Acq: 06 Jul 2022 19:17

Instrument :

MSVOA\_N

ClientSampleId :

20220483A-1A



Tgt Ion:128 Resp: 27244

Ion Ratio Lower Upper

128 100

127 17.6 10.3 15.5#

129 24.0 8.6 13.0#

