

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080122\  
 Data File : VN073668.D  
 Acq On : 01 Aug 2022 18:35  
 Operator : JC\MD  
 Sample : N3840-04  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ENV-DE-4-TW

Quant Time: Aug 02 05:04:40 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072822W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 29 02:20:25 2022  
 Response via : Initial Calibration

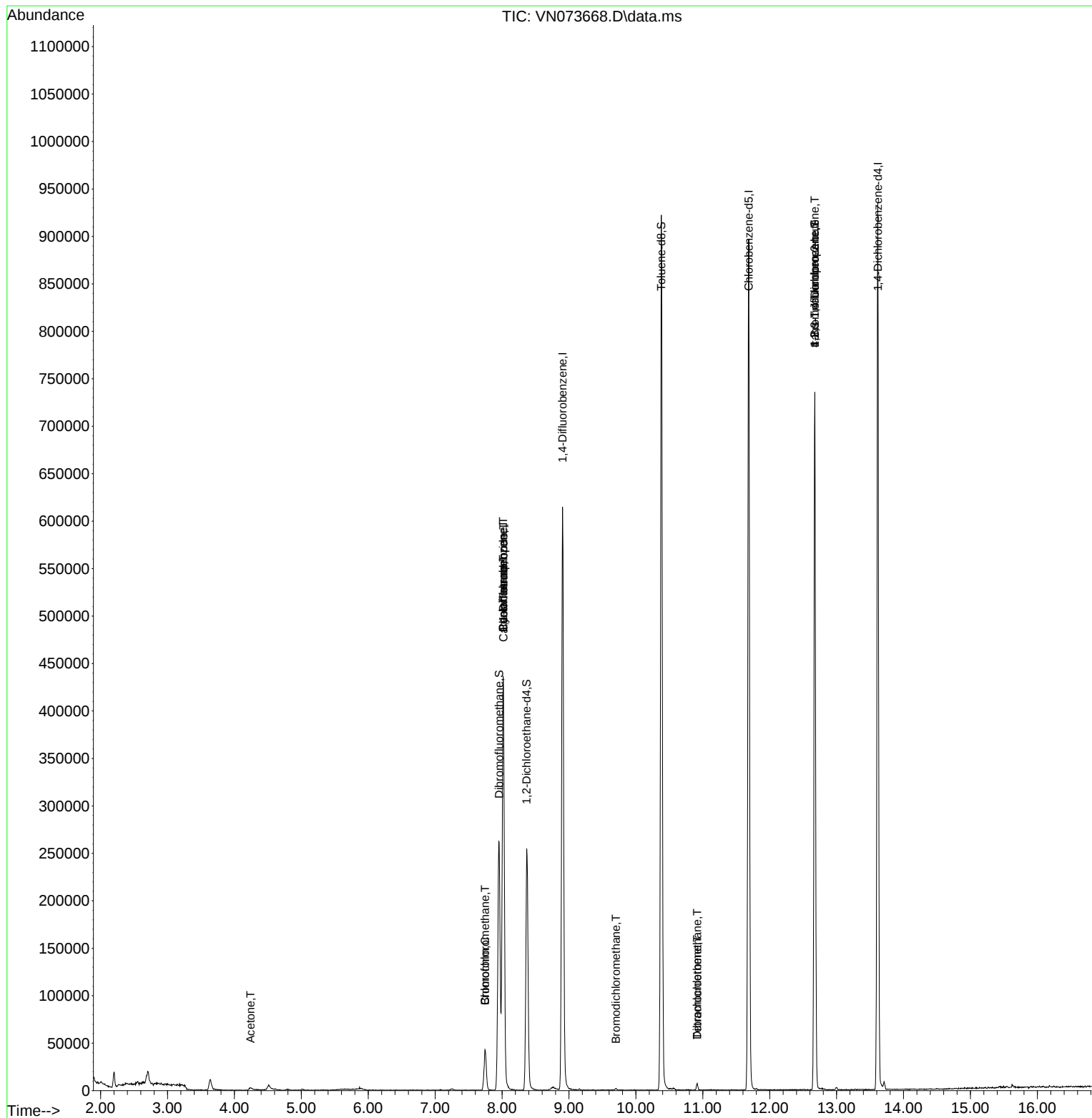
| Compound                      | R.T.           | QIon | Response   | Conc        | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-------------|--------|----------|
| -----                         |                |      |            |             |        |          |
| Internal Standards            |                |      |            |             |        |          |
| 1) Pentafluorobenzene         | 8.016          | 168  | 350831     | 50.000      | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.904          | 114  | 565835     | 50.000      | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.686         | 117  | 536818     | 50.000      | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.615         | 152  | 258208     | 50.000      | ug/l   | 0.00     |
|                               |                |      |            |             |        |          |
| System Monitoring Compounds   |                |      |            |             |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.369          | 65   | 212713     | 49.752      | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 99.500%     |        |          |
| 35) Dibromofluoromethane      | 7.957          | 113  | 196116     | 55.196      | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 110.400%    |        |          |
| 50) Toluene-d8                | 10.380         | 98   | 650242     | 46.506      | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 93.020%     |        |          |
| 62) 4-Bromofluorobenzene      | 12.674         | 95   | 237080     | 50.629      | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 101.260%    |        |          |
|                               |                |      |            |             |        |          |
| Target Compounds              |                |      |            |             |        |          |
|                               |                |      |            |             | Qvalue |          |
| 3) Chloromethane              | 2.269          | 50   | 962        | Below Cal   |        | 100      |
| 6) Chloroethane               | 2.951          | 64   | 470        | Below Cal   | #      | 42       |
| 16) Acetone                   | 4.240          | 43   | 5189       | 2.260 ug/l  | #      | 75       |
| 20) Methylene Chloride        | 5.022          | 84   | 823        | Below Cal   | #      | 44       |
| 28) Bromochloromethane        | 7.745          | 49   | 3421       | 1.154 ug/l  | #      | 8        |
| 30) Chloroform                | 7.745          | 83   | 42567      | 5.784 ug/l  |        | 90       |
| 31) Cyclohexane               | 8.016          | 56   | 6661       | 1.046 ug/l  | #      | 1        |
| 36) 1,1-Dichloropropene       | 8.016          | 75   | 25327      | 5.001 ug/l  | #      | 49       |
| 38) Carbon Tetrachloride      | 8.022          | 117  | 33607      | 6.534 ug/l  | #      | 17       |
| 47) Bromodichloromethane      | 9.704          | 83   | 1604       | 0.293 ug/l  | #      | 87       |
| 60) Dibromochloromethane      | 10.916         | 129  | 1344       | 0.323 ug/l  | #      | 11       |
| 64) Tetrachloroethene         | 10.916         | 164  | 1567       | 0.367 ug/l  | #      | 88       |
| 76) 1,2,3-Trichloropropane    | 12.674         | 75   | 121045     | 23.908 ug/l | #      | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.674         | 75   | 121045     | 60.752 ug/l | #      | 10       |
| -----                         |                |      |            |             |        |          |

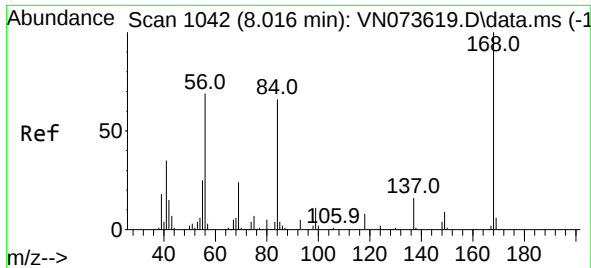
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080122\  
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Quant Time: Aug 02 05:04:40 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072822W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 29 02:20:25 2022  
Response via : Initial Calibration

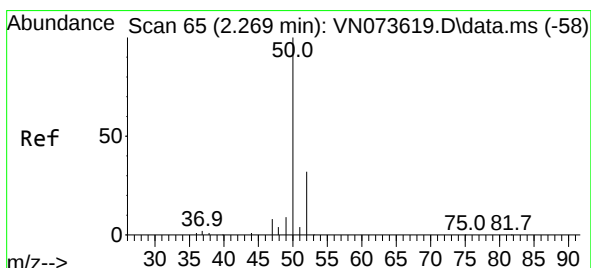
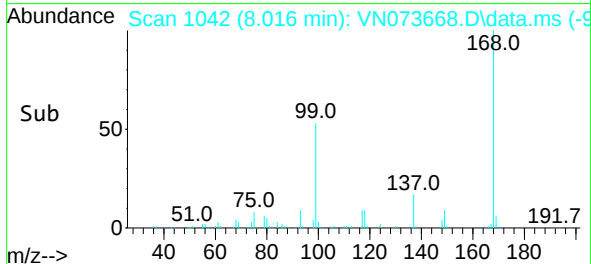
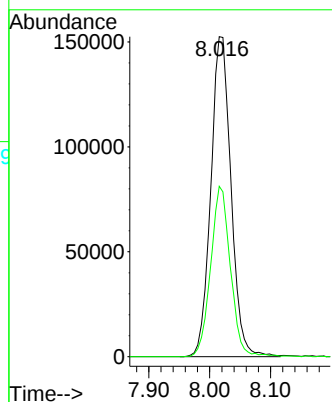
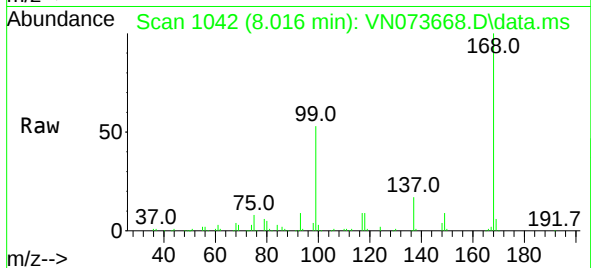




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.016 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN073668.D  
Acq: 01 Aug 2022 18:35

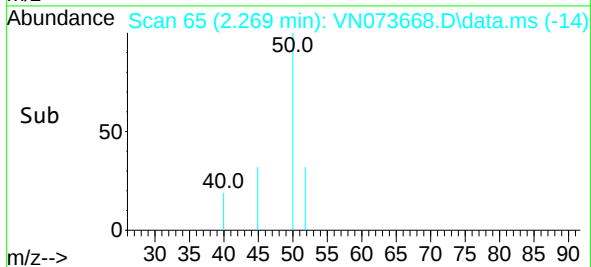
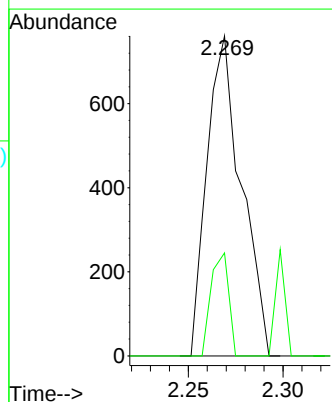
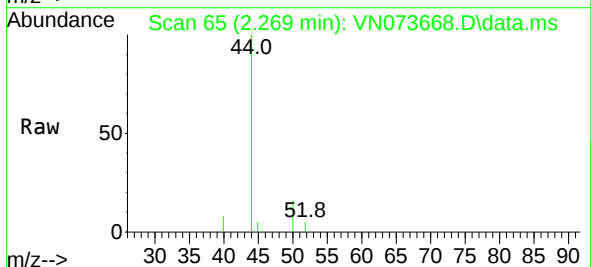
Instrument :  
MSVOA\_N  
ClientSampleId :  
ENV-DE-4-TW

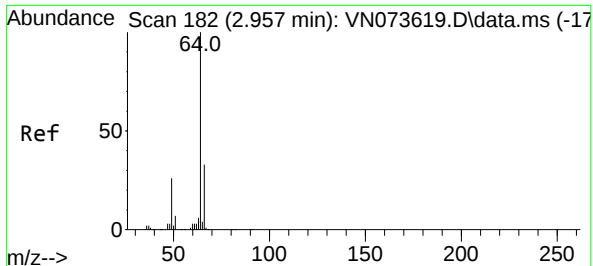
Tgt Ion:168 Resp: 350831  
Ion Ratio Lower Upper  
168 100  
99 53.2 42.3 63.5



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.269 min Scan# 65  
Delta R.T. 0.000 min  
Lab File: VN073668.D  
Acq: 01 Aug 2022 18:35

Tgt Ion: 50 Resp: 962  
Ion Ratio Lower Upper  
50 100  
52 32.2 25.7 38.5

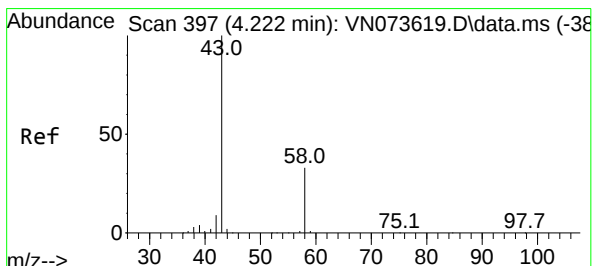
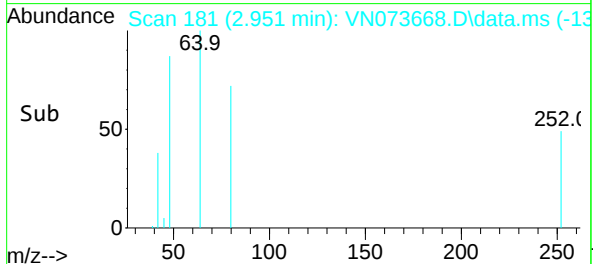
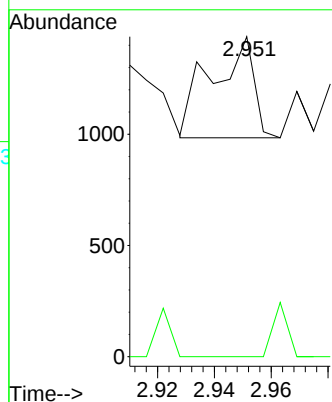
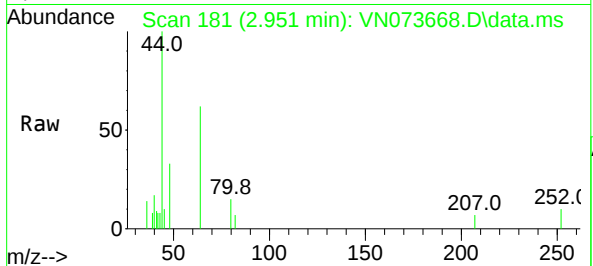




#6  
Chloroethane  
Concen: Below Cal  
RT: 2.951 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN073668.D  
Acq: 01 Aug 2022 18:35

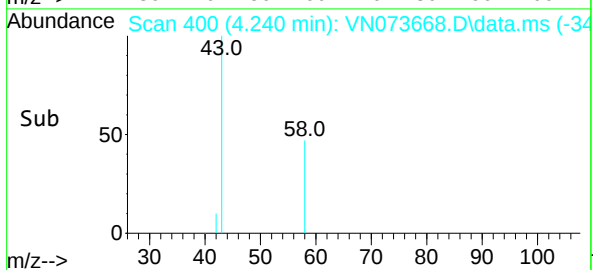
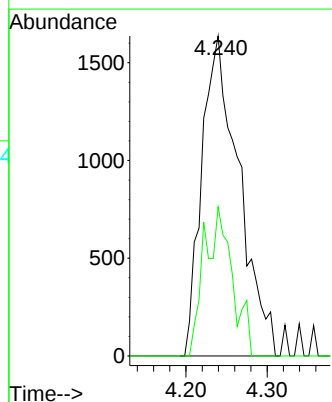
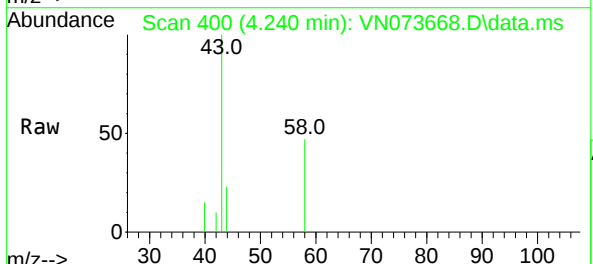
Instrument :  
MSVOA\_N  
ClientSampleId :  
ENV-DE-4-TW

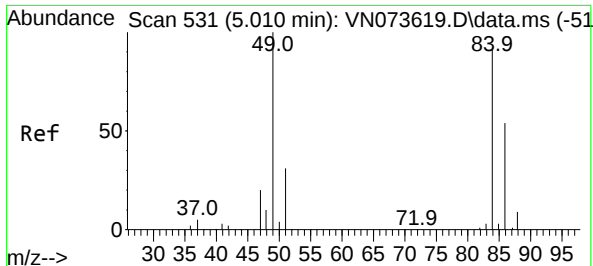
Tgt Ion: 64 Resp: 470  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.2 39.4#



#16  
Acetone  
Concen: 2.260 ug/l  
RT: 4.240 min Scan# 400  
Delta R.T. 0.018 min  
Lab File: VN073668.D  
Acq: 01 Aug 2022 18:35

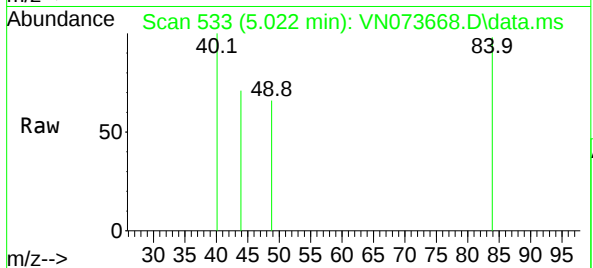
Tgt Ion: 43 Resp: 5189  
Ion Ratio Lower Upper  
43 100  
58 46.6 26.0 39.0#



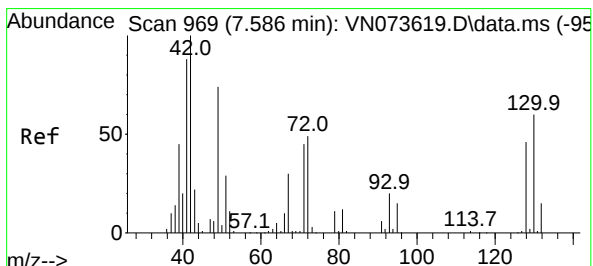
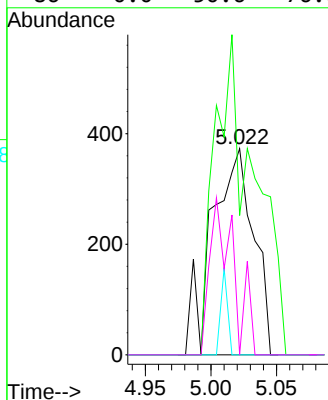
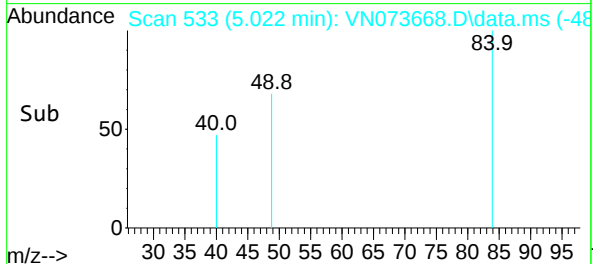


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.022 min Scan# 51  
Delta R.T. 0.012 min  
Lab File: VN073668.D  
Acq: 01 Aug 2022 18:35

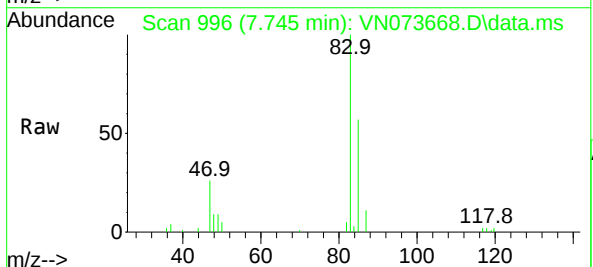
Instrument :  
MSVOA\_N  
ClientSampleId :  
ENV-DE-4-TW



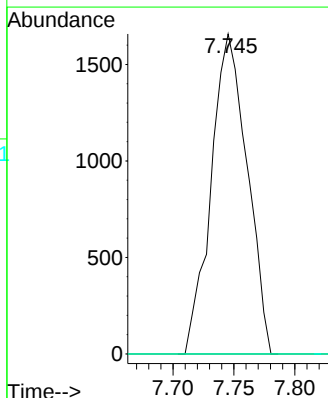
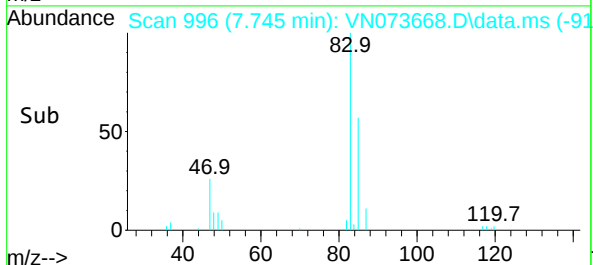
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 823    |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 67.6  | 88.3  | 132.5# |
| 51       | 0.0   | 28.2  | 42.2#  |
| 86       | 0.0   | 50.6  | 76.0#  |

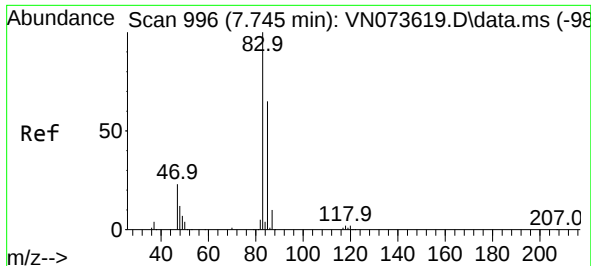


#28  
Bromochloromethane  
Concen: 1.154 ug/l  
RT: 7.745 min Scan# 996  
Delta R.T. 0.159 min  
Lab File: VN073668.D  
Acq: 01 Aug 2022 18:35



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 49    | Resp: | 3421   |
| Ion      | Ratio | Lower | Upper  |
| 49       | 100   |       |        |
| 129      | 0.0   | 0.0   | 4.6    |
| 130      | 0.0   | 69.7  | 104.5# |

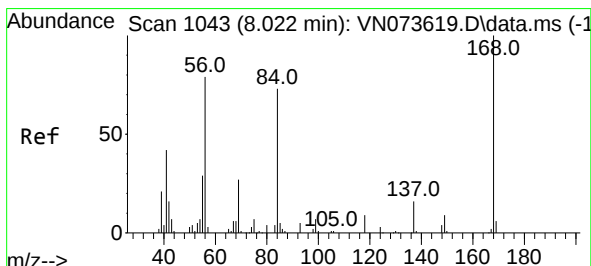
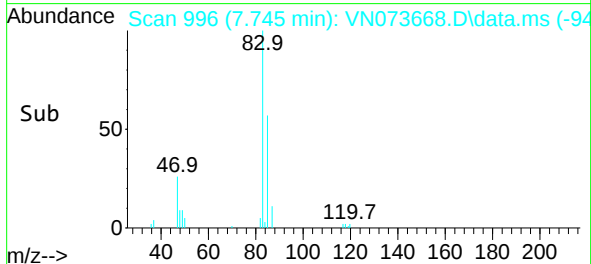
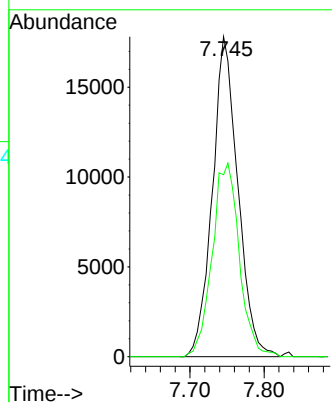
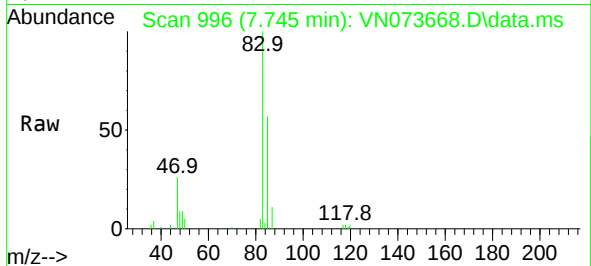




#30  
Chloroform  
Concen: 5.784 ug/l  
RT: 7.745 min Scan# 996  
Delta R.T. -0.000 min  
Lab File: VN073668.D  
Acq: 01 Aug 2022 18:35

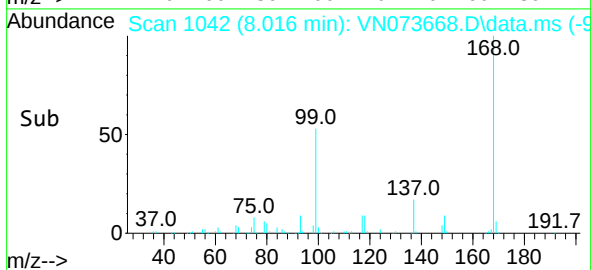
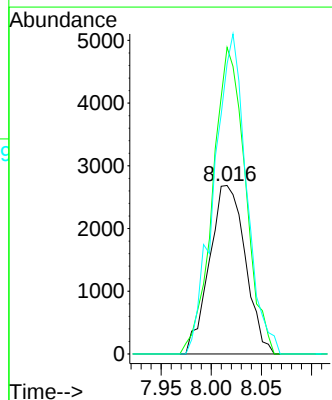
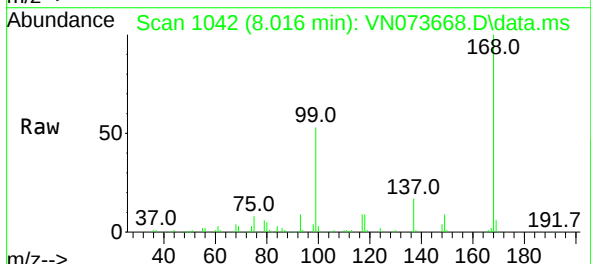
Instrument :  
MSVOA\_N  
ClientSampleId :  
ENV-DE-4-TW

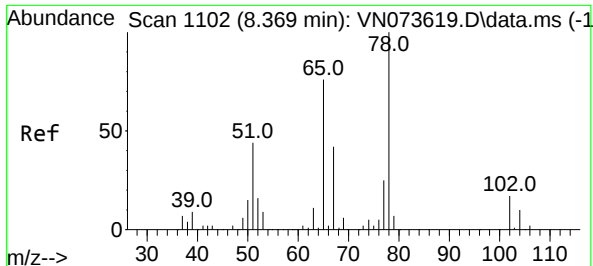
Tgt Ion: 83 Resp: 42567  
Ion Ratio Lower Upper  
83 100  
85 56.8 51.8 77.8



#31  
Cyclohexane  
Concen: 1.046 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. -0.006 min  
Lab File: VN073668.D  
Acq: 01 Aug 2022 18:35

Tgt Ion: 56 Resp: 6661  
Ion Ratio Lower Upper  
56 100  
69 182.0 27.8 41.8#  
84 172.2 76.9 115.3#





#33

1,2-Dichloroethane-d4

Concen: 49.752 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VN073668.D

Acq: 01 Aug 2022 18:35

Instrument :

MSVOA\_N

ClientSampleId :

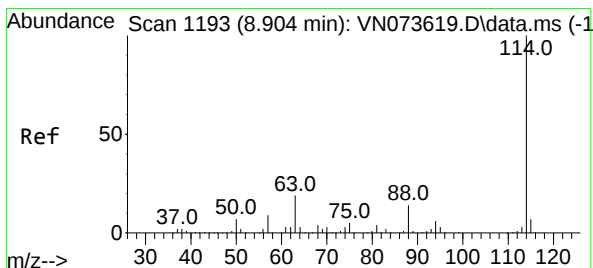
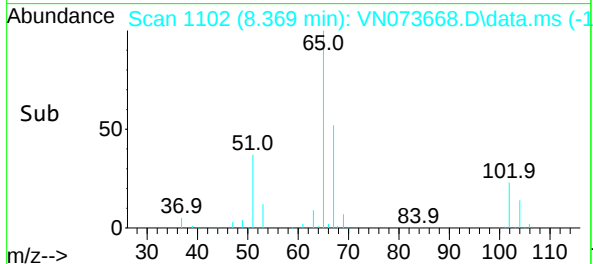
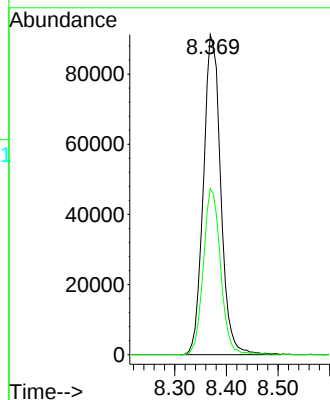
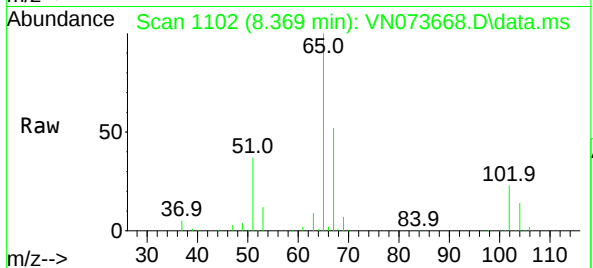
ENV-DE-4-TW

Tgt Ion: 65 Resp: 212713

Ion Ratio Lower Upper

65 100

67 51.5 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VN073668.D

Acq: 01 Aug 2022 18:35

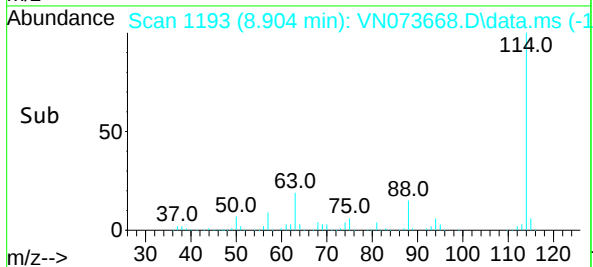
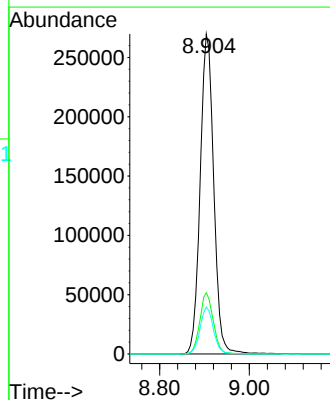
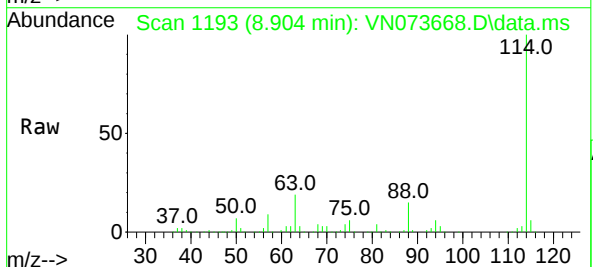
Tgt Ion: 114 Resp: 565835

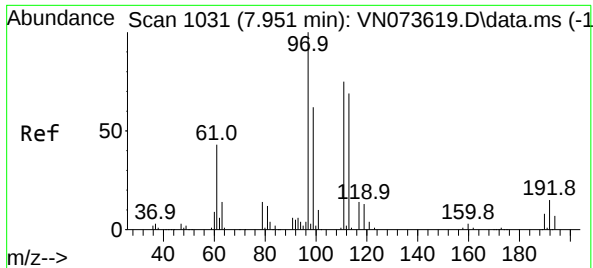
Ion Ratio Lower Upper

114 100

63 19.1 0.0 40.0

88 14.7 0.0 32.6

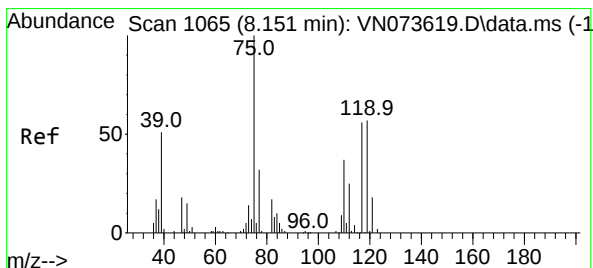
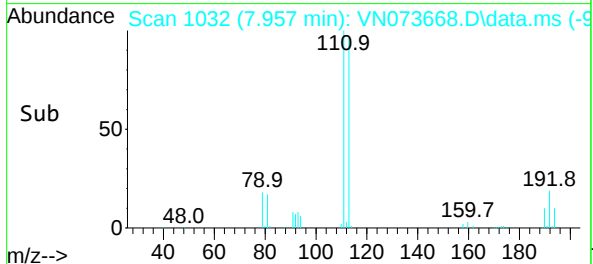
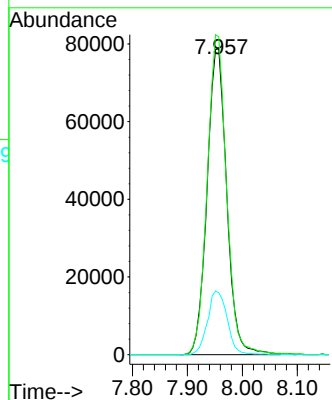
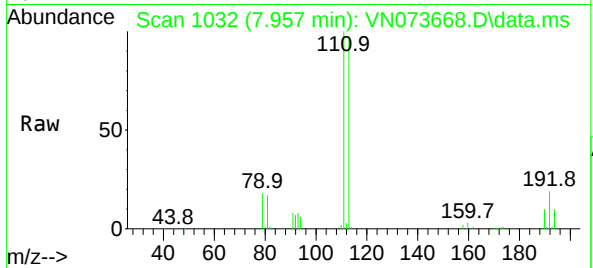




#35  
Dibromofluoromethane  
Concen: 55.196 ug/l  
RT: 7.957 min Scan# 1042  
Delta R.T. 0.006 min  
Lab File: VN073668.D  
Acq: 01 Aug 2022 18:35

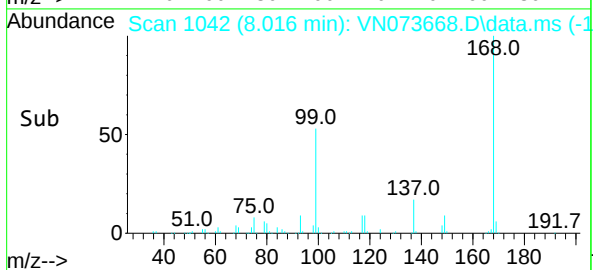
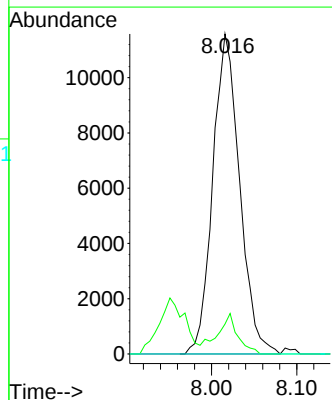
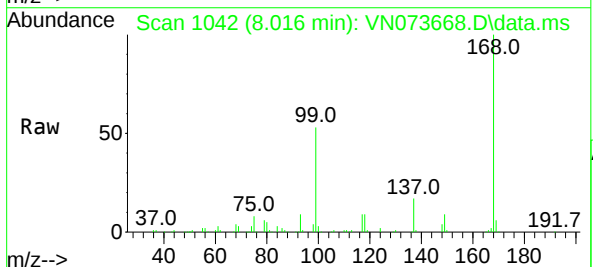
Instrument :  
MSVOA\_N  
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ENV-DE-4-TW

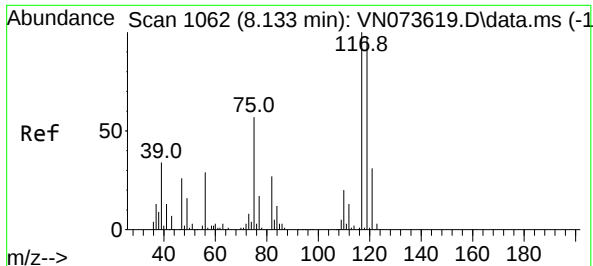
Tgt Ion:113 Resp: 196116  
Ion Ratio Lower Upper  
113 100  
111 103.2 81.4 122.0  
192 20.9 17.0 25.6



#36  
1,1-Dichloropropene  
Concen: 5.001 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. -0.135 min  
Lab File: VN073668.D  
Acq: 01 Aug 2022 18:35

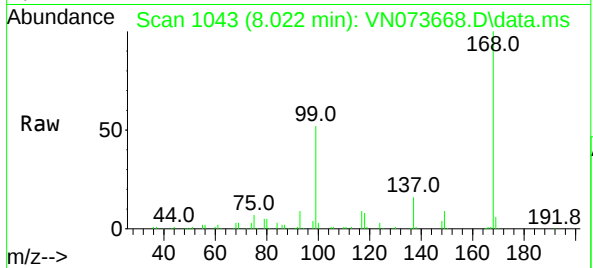
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Ion Ratio Lower Upper  
75 100  
110 9.6 18.3 54.8#  
77 0.0 25.1 37.7#



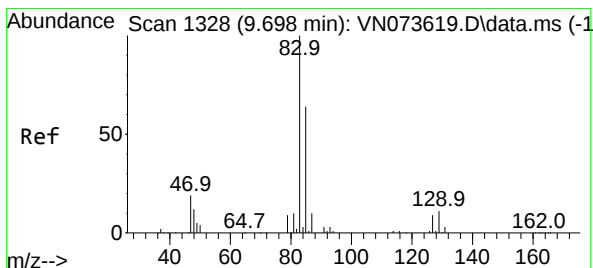
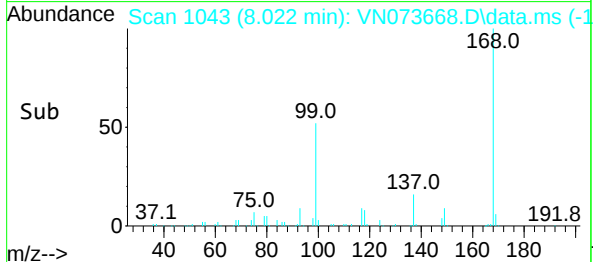
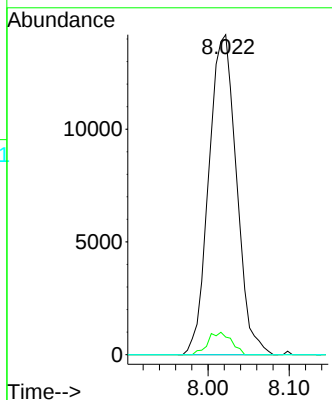


#38  
Carbon Tetrachloride  
Concen: 6.534 ug/l  
RT: 8.022 min Scan# 1043  
Delta R.T. -0.112 min  
Lab File: VN073668.D  
Acq: 01 Aug 2022 18:35

Instrument :  
MSVOA\_N  
ClientSampleId :  
ENV-DE-4-TW

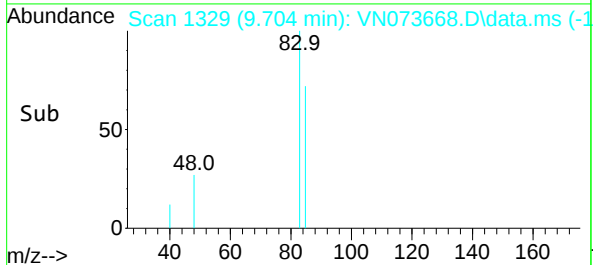
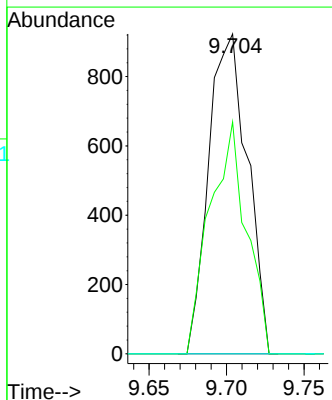
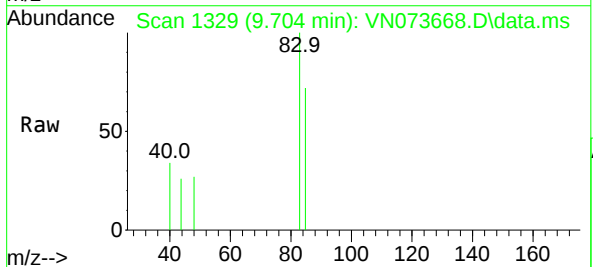


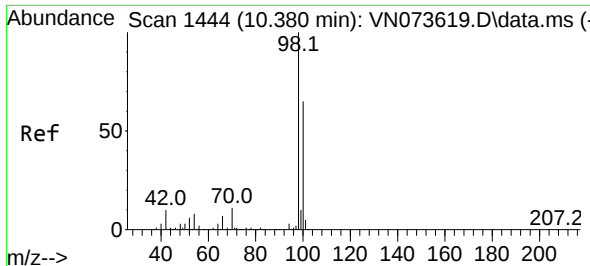
Tgt Ion:117 Resp: 33607  
Ion Ratio Lower Upper  
117 100  
119 5.5 75.8 113.8#  
121 0.0 24.6 37.0#



#47  
Bromodichloromethane  
Concen: 0.293 ug/l  
RT: 9.704 min Scan# 1329  
Delta R.T. 0.006 min  
Lab File: VN073668.D  
Acq: 01 Aug 2022 18:35

Tgt Ion: 83 Resp: 1604  
Ion Ratio Lower Upper  
83 100  
85 72.5 50.5 75.7  
127 0.0 6.8 10.2#

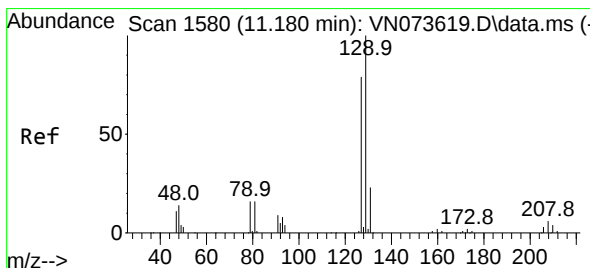
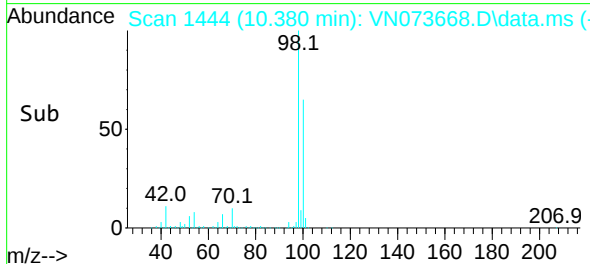
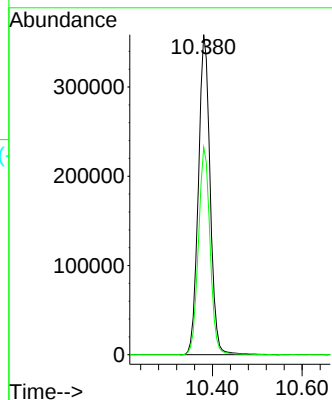
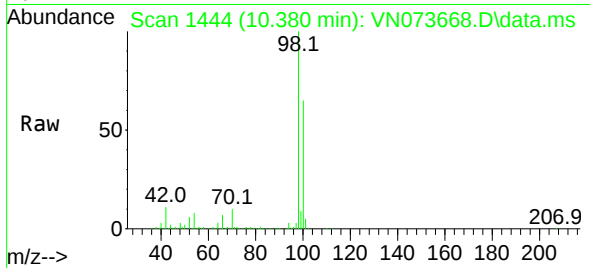




#50  
Toluene-d8  
Concen: 46.506 ug/l  
RT: 10.380 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: VN073668.D  
Acq: 01 Aug 2022 18:35

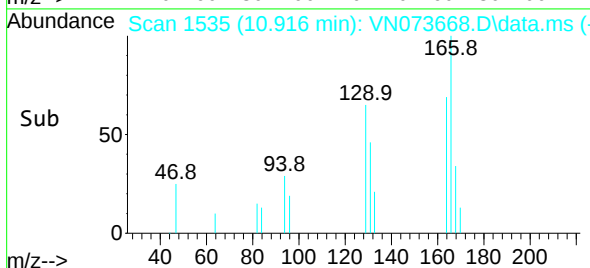
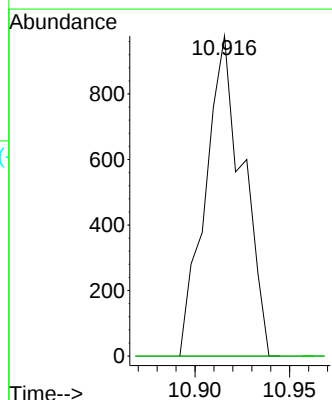
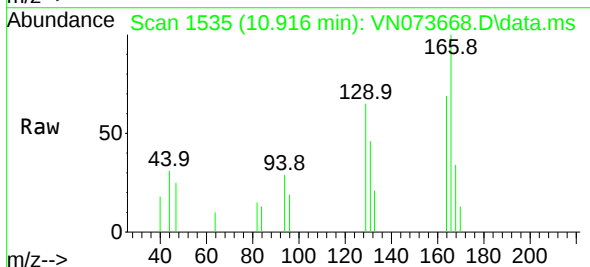
Instrument :  
MSVOA\_N  
ClientSampleId :  
ENV-DE-4-TW

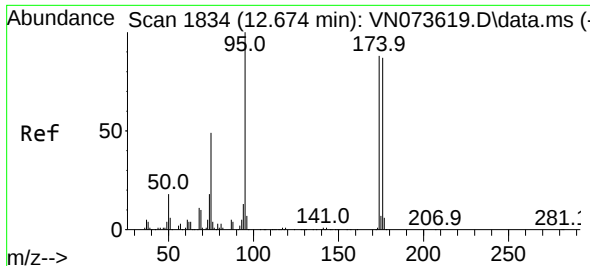
Tgt Ion: 98 Resp: 650242  
Ion Ratio Lower Upper  
98 100  
100 64.4 52.6 78.8



#60  
Dibromochloromethane  
Concen: 0.323 ug/l  
RT: 10.916 min Scan# 1535  
Delta R.T. -0.265 min  
Lab File: VN073668.D  
Acq: 01 Aug 2022 18:35

Tgt Ion:129 Resp: 1344  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.8 116.4#

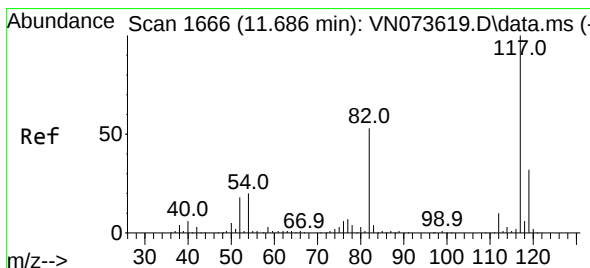
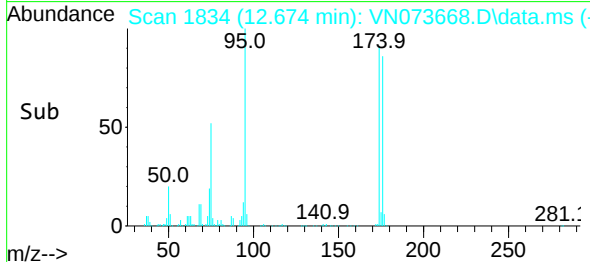
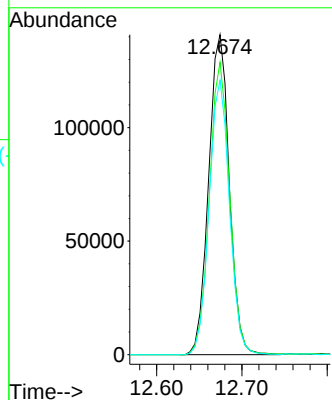
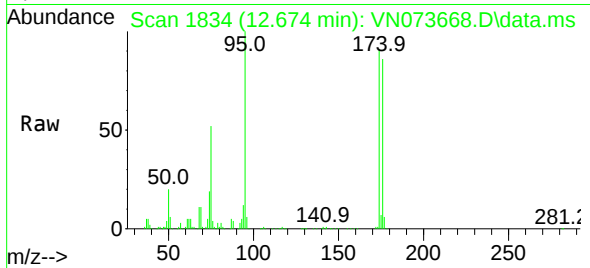




#62  
4-Bromofluorobenzene  
Concen: 50.629 ug/l  
RT: 12.674 min Scan# 1834  
Delta R.T. 0.000 min  
Lab File: VN073668.D  
Acq: 01 Aug 2022 18:35

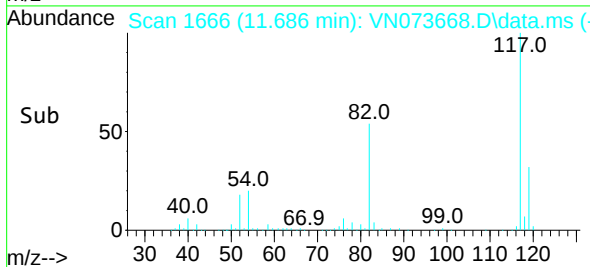
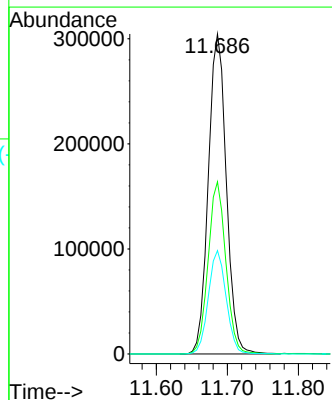
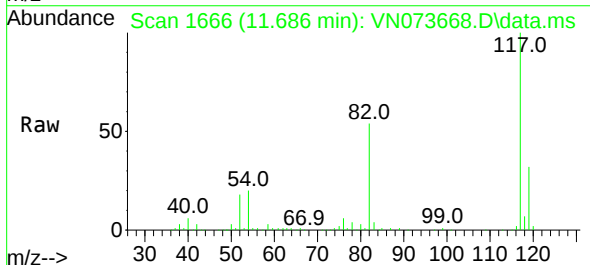
Instrument :  
MSVOA\_N  
ClientSampleId :  
ENV-DE-4-TW

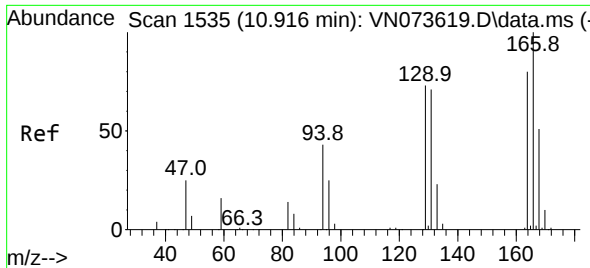
Tgt Ion: 95 Resp: 237080  
Ion Ratio Lower Upper  
95 100  
174 90.2 0.0 167.6  
176 84.2 0.0 163.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.686 min Scan# 1666  
Delta R.T. -0.000 min  
Lab File: VN073668.D  
Acq: 01 Aug 2022 18:35

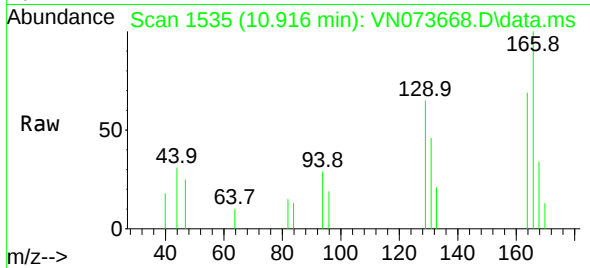
Tgt Ion: 117 Resp: 536818  
Ion Ratio Lower Upper  
117 100  
82 53.8 44.2 66.2  
119 32.3 25.4 38.0



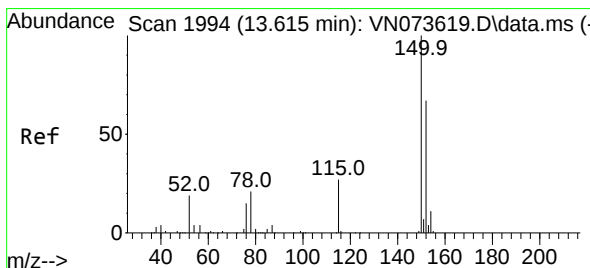
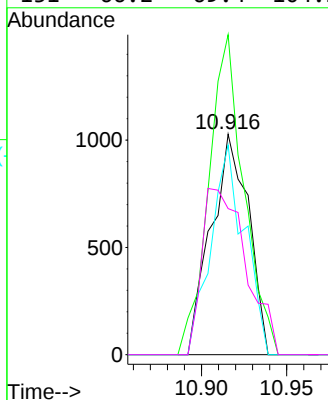
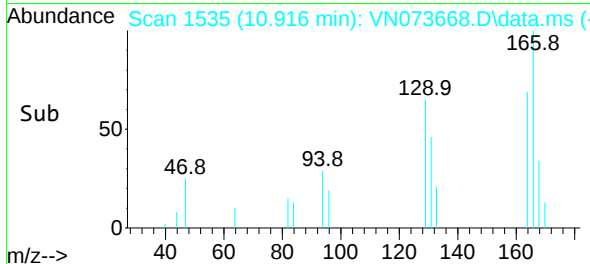


#64  
Tetrachloroethene  
Concen: 0.367 ug/l  
RT: 10.916 min Scan# 1535  
Delta R.T. -0.000 min  
Lab File: VN073668.D  
Acq: 01 Aug 2022 18:35

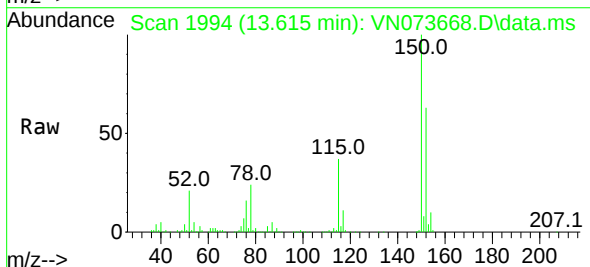
Instrument :  
MSVOA\_N  
ClientSampleId :  
ENV-DE-4-TW



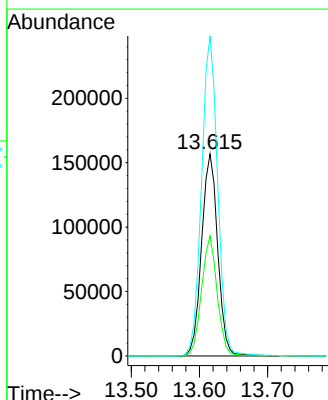
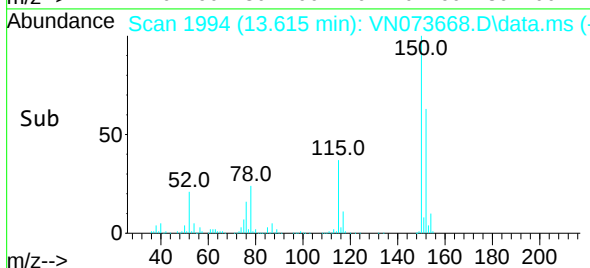
Tgt Ion:164 Resp: 1567  
Ion Ratio Lower Upper  
164 100  
166 145.1 104.2 156.2  
129 95.0 73.9 110.9  
131 66.2 69.4 104.2#

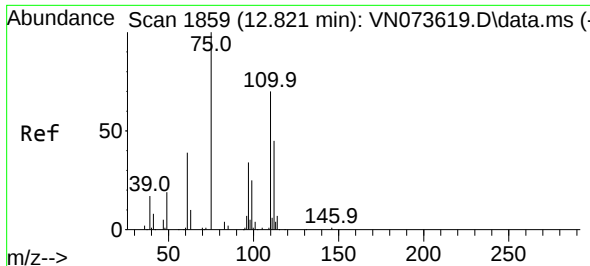


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.615 min Scan# 1994  
Delta R.T. -0.000 min  
Lab File: VN073668.D  
Acq: 01 Aug 2022 18:35



Tgt Ion:152 Resp: 258208  
Ion Ratio Lower Upper  
152 100  
115 57.6 28.9 86.7  
150 158.1 0.0 356.2

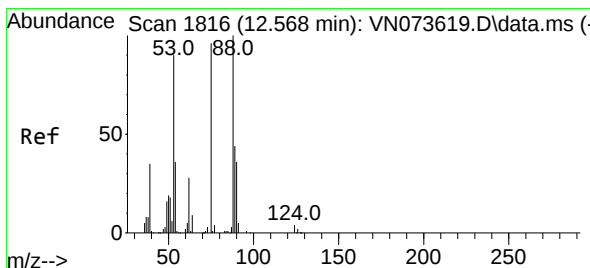
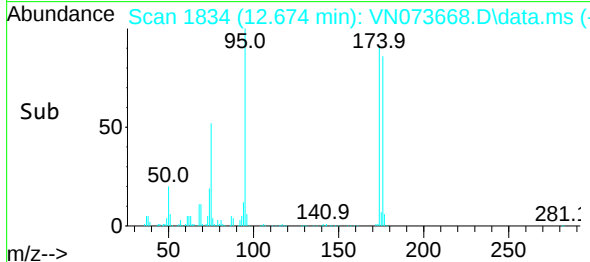
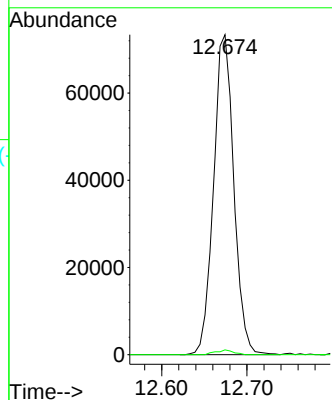
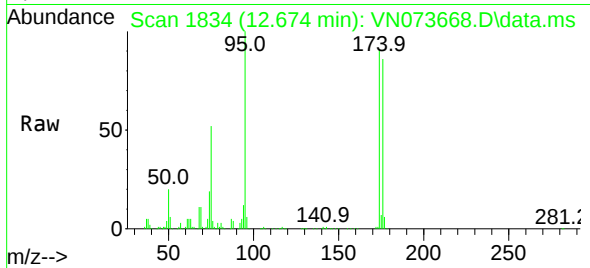




#76  
1,2,3-Trichloropropane  
Concen: 23.908 ug/l  
RT: 12.674 min Scan# 1834  
Delta R.T. -0.147 min  
Lab File: VN073668.D  
Acq: 01 Aug 2022 18:35

Instrument :  
MSVOA\_N  
ClientSampleId :  
ENV-DE-4-TW

Tgt Ion: 75 Resp: 121045  
Ion Ratio Lower Upper  
75 100  
77 1.3 98.5 295.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 60.752 ug/l  
RT: 12.674 min Scan# 1834  
Delta R.T. 0.106 min  
Lab File: VN073668.D  
Acq: 01 Aug 2022 18:35

Tgt Ion: 75 Resp: 121045  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.0 117.0#  
89 0.0 37.2 55.8#

