

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN032621\  
 Data File : VN066354.D  
 Acq On : 26 Mar 2021 17:09  
 Operator : JC/MD  
 Sample : M1788-05  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RE105D1-20210322

Quant Time: Mar 27 01:49:40 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N032521W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 26 16:26:01 2021  
 Response via : Initial Calibration

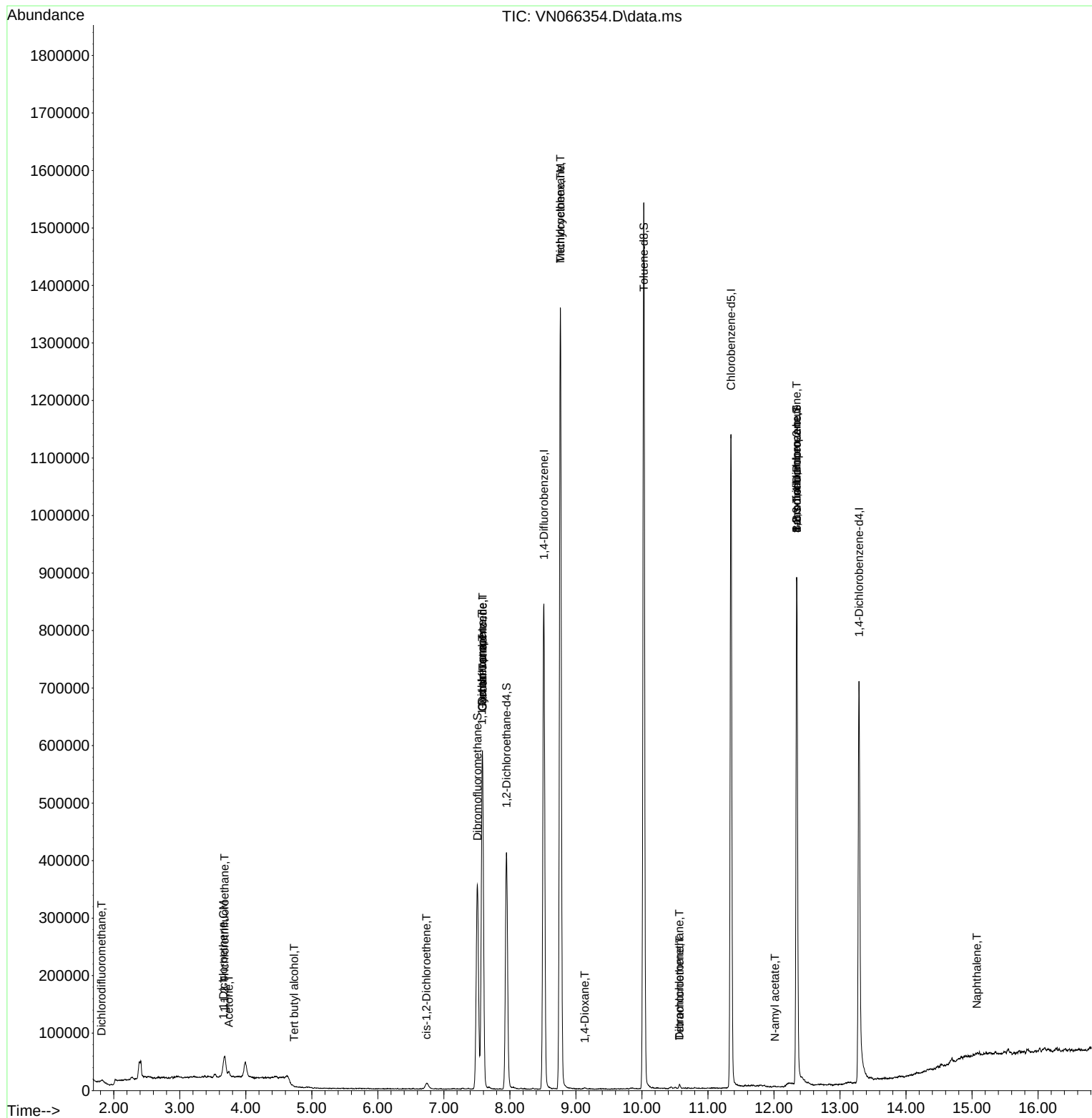
| Compound                      | R.T.           | QIon | Response           | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|-----------|--------|----------|
| -----                         |                |      |                    |           |        |          |
| Internal Standards            |                |      |                    |           |        |          |
| 1) Pentafluorobenzene         | 7.584          | 168  | 494542             | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.515          | 114  | 742890             | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.350         | 117  | 646343             | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.289         | 152  | 226821             | 50.00     | ug/l   | 0.00     |
|                               |                |      |                    |           |        |          |
| System Monitoring Compounds   |                |      |                    |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 7.949          | 65   | 347161             | 52.81     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 105.62% |           |        |          |
| 35) Dibromofluoromethane      | 7.509          | 113  | 272224             | 55.28     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 110.56% |           |        |          |
| 50) Toluene-d8                | 10.028         | 98   | 1044462            | 55.91     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 111.82% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.345         | 95   | 310619             | 47.87     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 95.74%  |           |        |          |
|                               |                |      |                    |           |        |          |
| Target Compounds              |                |      |                    |           |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.815          | 85   | 1416               | 0.23      | ug/l   | 86       |
| 3) Chloromethane              | 2.019          | 50   | 3593               | Below Cal |        | 97       |
| 9) 1,1,2-Trichlorotrifluo...  | 3.679          | 101  | 19791              | 3.58      | ug/l   | 96       |
| 11) Tert butyl alcohol        | 4.731          | 59   | 204                | 0.20      | ug/l # | 1        |
| 12) 1,1-Dichloroethene        | 3.658          | 96   | 2678               | 0.47      | ug/l   | 93       |
| 13) Acrolein                  | 3.532          | 56   | 5116               | Below Cal |        | 100      |
| 16) Acetone                   | 3.744          | 43   | 9694               | 2.73      | ug/l   | 93       |
| 20) Methylene Chloride        | 4.438          | 84   | 2322               | Below Cal | #      | 63       |
| 27) cis-1,2-Dichloroethene    | 6.734          | 96   | 5146               | 0.86      | ug/l   | 76       |
| 31) Cyclohexane               | 7.582          | 56   | 10886              | 1.20      | ug/l # | 7        |
| 36) 1,1-Dichloropropene       | 7.579          | 75   | 35888              | 5.14      | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 7.587          | 117  | 45107              | 6.43      | ug/l # | 16       |
| 39) Methylcyclohexane         | 8.764          | 83   | 6059               | 0.71      | ug/l # | 1        |
| 44) Trichloroethene           | 8.764          | 130  | 491293             | 88.62     | ug/l   | 99       |
| 49) 1,4-Dioxane               | 9.135          | 88   | 1363               | 17.36     | ug/l # | 62       |
| 60) Dibromochloromethane      | 10.569         | 129  | 1510               | 0.26      | ug/l # | 11       |
| 64) Tetrachloroethene         | 10.572         | 164  | 1441               | 0.26      | ug/l # | 78       |
| 71) Bromoform                 | 12.345         | 173  | 1928               | 0.47      | ug/l # | 1        |
| 74) N-amyl acetate            | 12.015         | 43   | 87                 | 3.21      | ug/l # | 45       |
| 76) 1,2,3-Trichloropropane    | 12.345         | 75   | 154818             | 31.11     | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.345         | 75   | 154818             | 93.54     | ug/l # | 12       |
| 95) Naphthalene               | 15.072         | 128  | 897                | 1.11      | ug/l # | 48       |
| -----                         |                |      |                    |           |        |          |

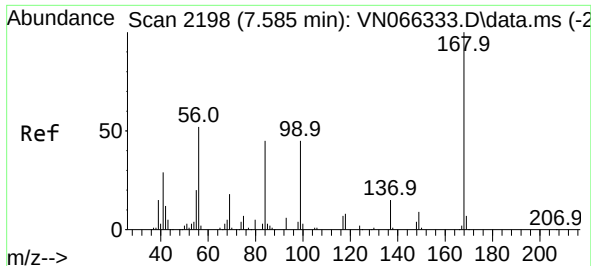
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 15 Sample Multiplier: 1

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Quant Title : SW846 8260  
QLast Update : Fri Mar 26 16:26:01 2021  
Response via : Initial Calibration

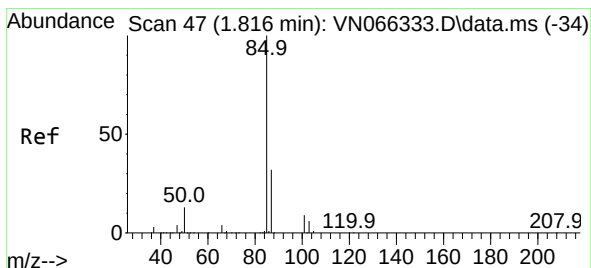
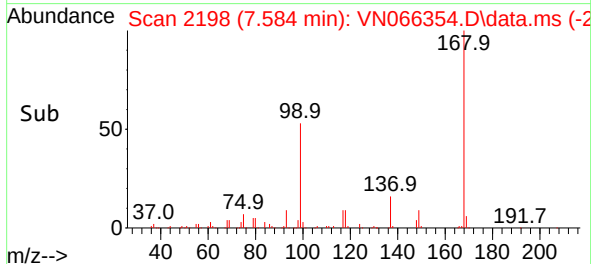
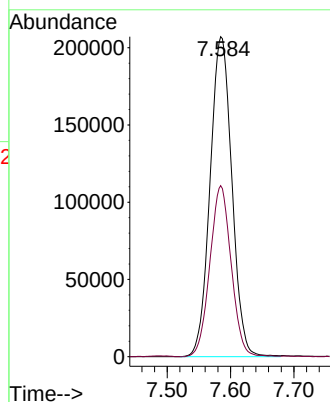
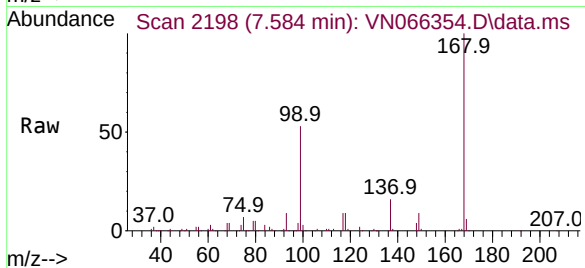




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.584 min Scan# 2198  
Delta R.T. -0.001 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

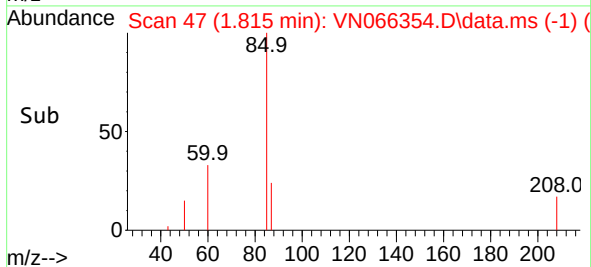
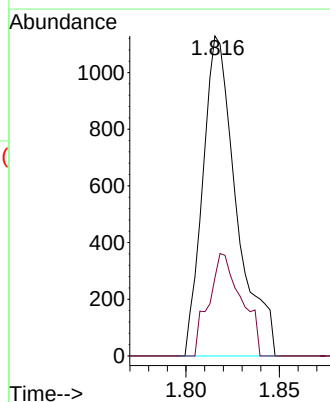
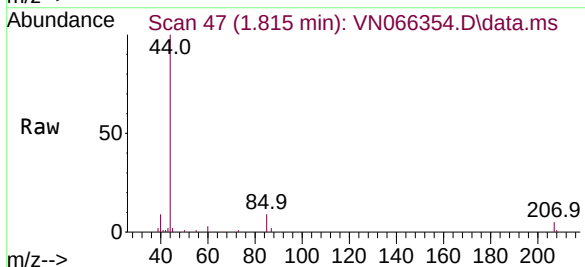
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE105D1-20210322

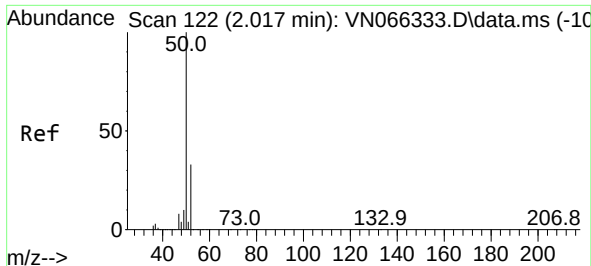
Tgt Ion:168 Resp: 494542  
Ion Ratio Lower Upper  
168 100  
99 53.4 41.1 61.7



#2  
Dichlorodifluoromethane  
Concen: 0.23 ug/l  
RT: 1.815 min Scan# 47  
Delta R.T. -0.000 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

Tgt Ion: 85 Resp: 1416  
Ion Ratio Lower Upper  
85 100  
87 24.4 16.2 48.6

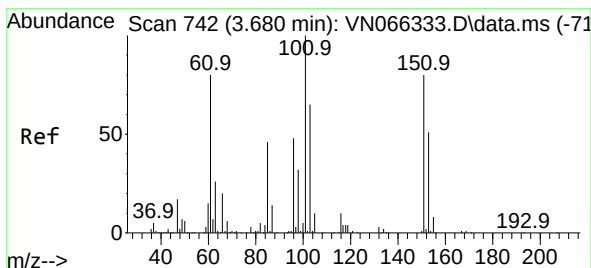
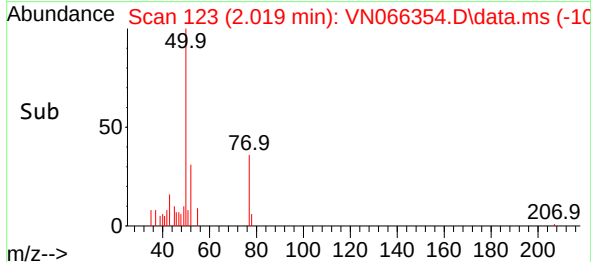
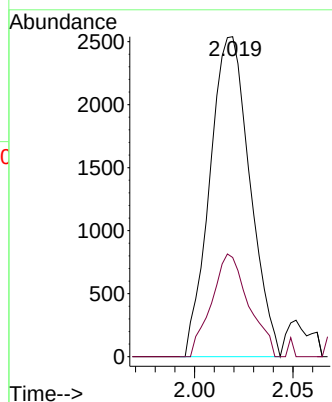
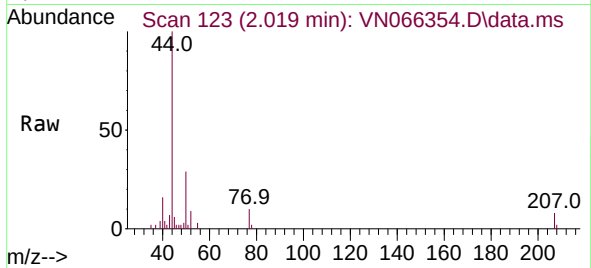




#3  
Chloromethane  
Concen: Below Cal  
RT: 2.019 min Scan# 123  
Delta R.T. 0.002 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

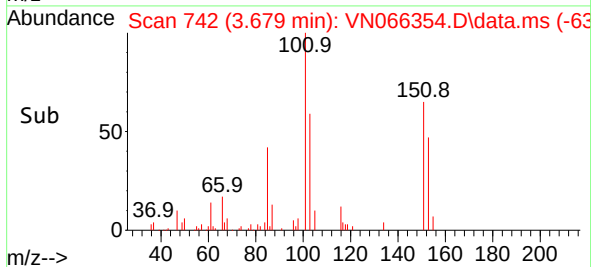
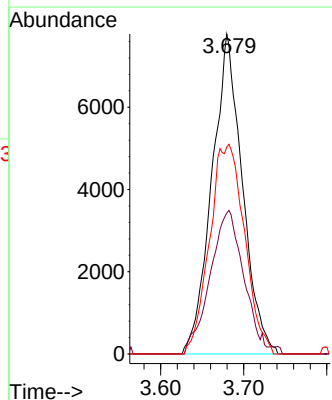
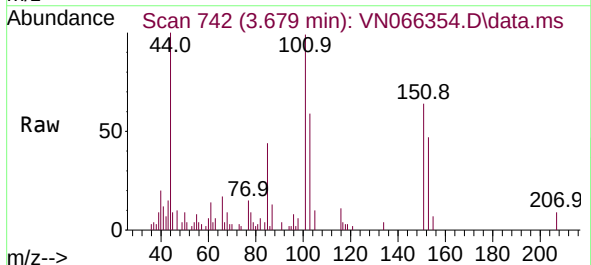
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE105D1-20210322

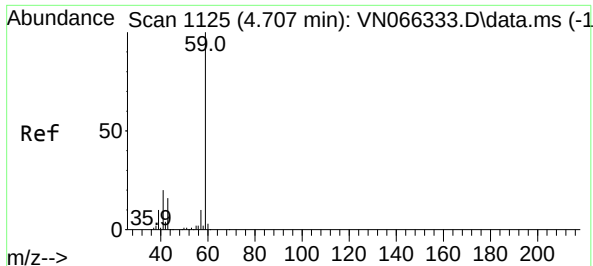
Tgt Ion: 50 Resp: 3593  
Ion Ratio Lower Upper  
50 100  
52 31.0 26.2 39.2



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 3.58 ug/l  
RT: 3.679 min Scan# 742  
Delta R.T. -0.001 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

Tgt Ion: 101 Resp: 19791  
Ion Ratio Lower Upper  
101 100  
85 49.5 36.8 55.2  
151 75.4 63.0 94.4



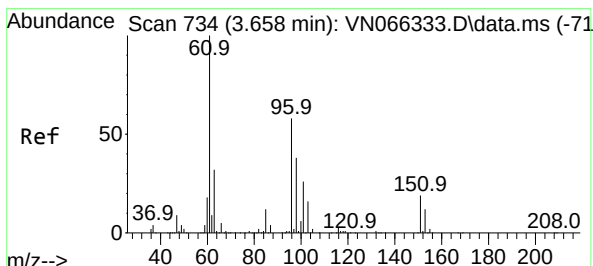
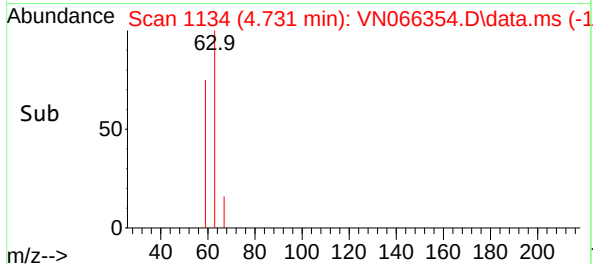
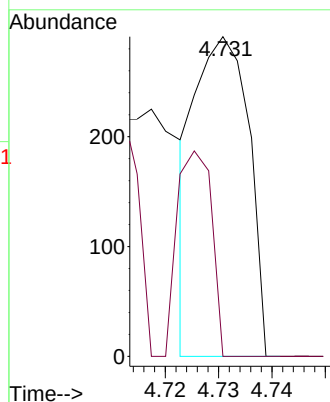
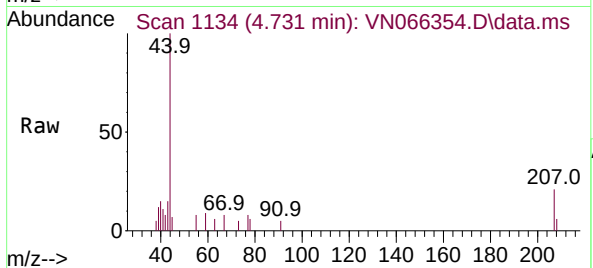


#11

Tert butyl alcohol  
Concen: 0.20 ug/l  
RT: 4.731 min Scan# 1134  
Delta R.T. 0.024 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

Instrument :  
MSVOA\_N  
ClientSampleId :  
RE105D1-20210322

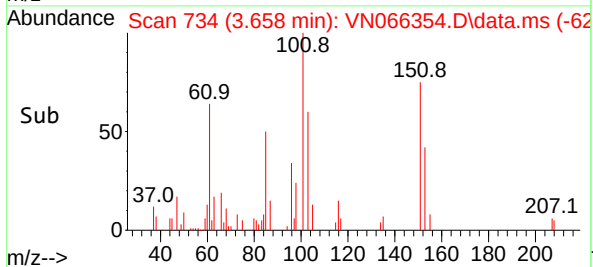
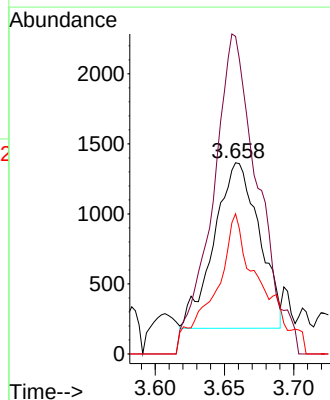
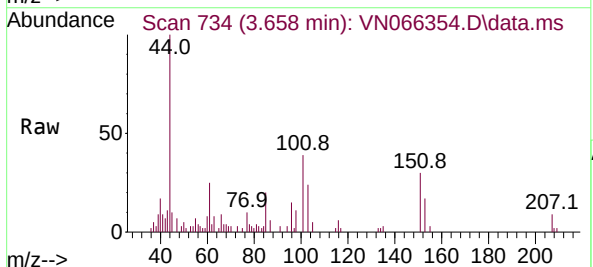
Tgt Ion: 59 Resp: 204  
Ion Ratio Lower Upper  
59 100  
57 41.2 4.1 6.1#

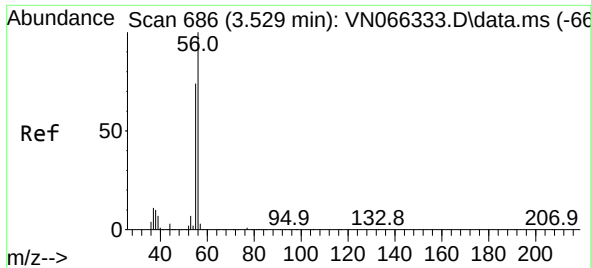


#12

1,1-Dichloroethene  
Concen: 0.47 ug/l  
RT: 3.658 min Scan# 734  
Delta R.T. -0.000 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

Tgt Ion: 96 Resp: 2678  
Ion Ratio Lower Upper  
96 100  
61 179.5 137.0 205.4  
98 72.5 51.5 77.3

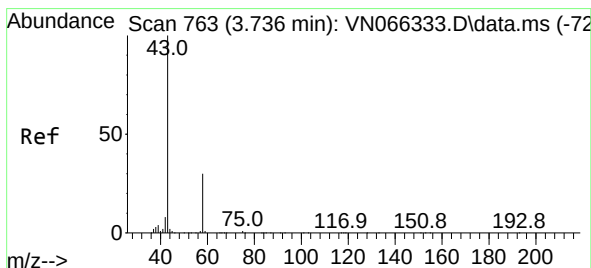
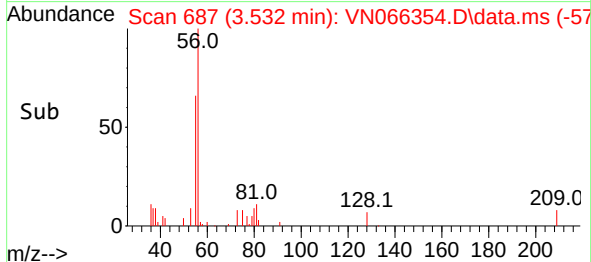
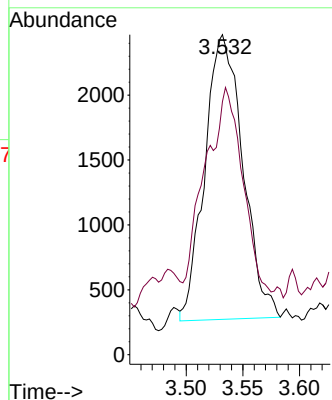
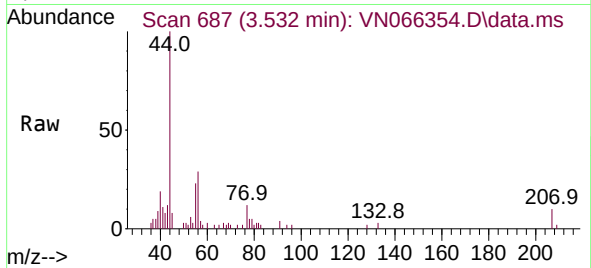




#13  
Acrolein  
Concen: Below Cal  
RT: 3.532 min Scan# 687  
Delta R.T. 0.003 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

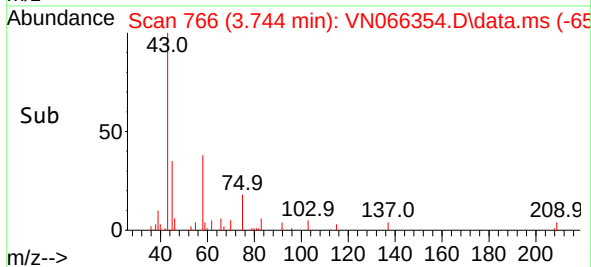
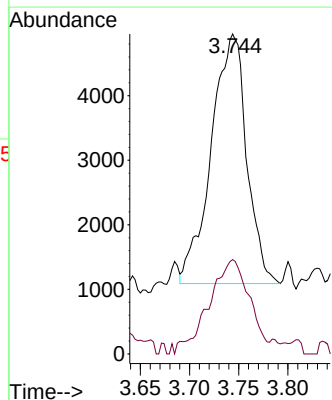
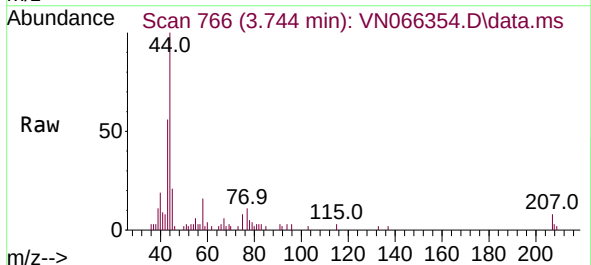
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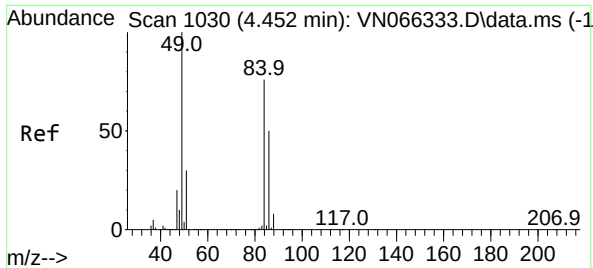
Tgt Ion: 56 Resp: 5116  
Ion Ratio Lower Upper  
56 100  
55 72.2 57.9 86.9



#16  
Acetone  
Concen: 2.73 ug/l  
RT: 3.744 min Scan# 766  
Delta R.T. 0.008 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

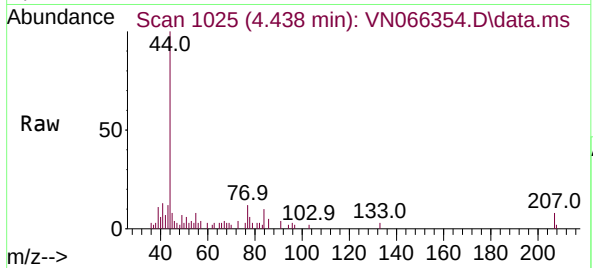
Tgt Ion: 43 Resp: 9694  
Ion Ratio Lower Upper  
43 100  
58 33.7 23.8 35.8



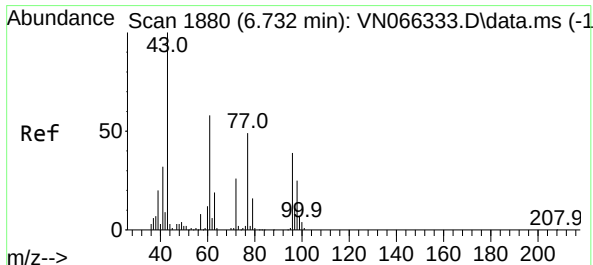
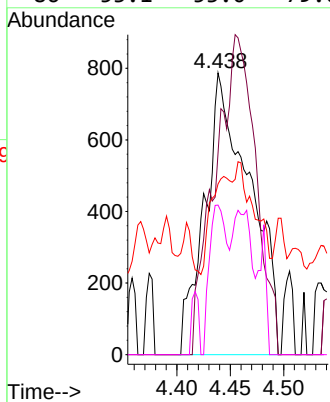
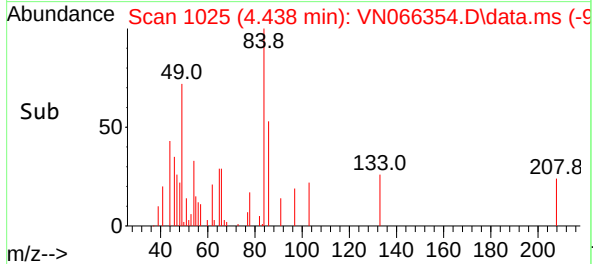


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.438 min Scan# 1025  
Delta R.T. -0.014 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

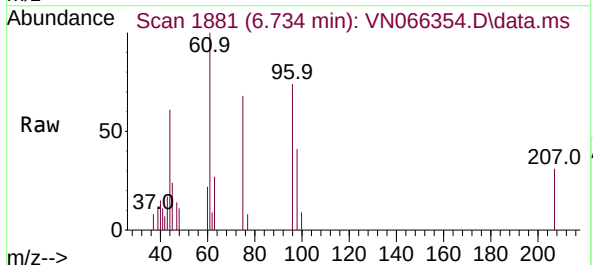
Instrument :  
MSVOA\_N  
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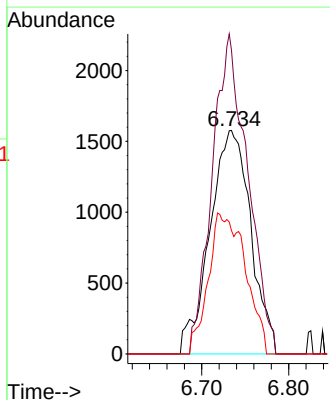
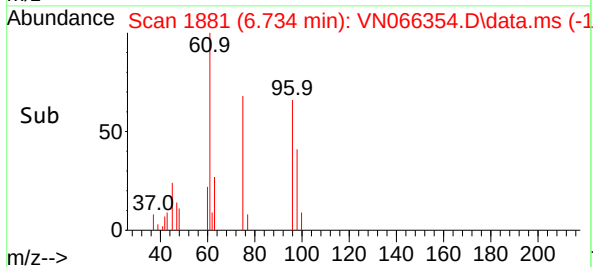
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|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 2322   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 71.5  | 105.0 | 157.6# |
| 51       | 25.7  | 31.6  | 47.4#  |
| 86       | 53.1  | 53.0  | 79.6   |

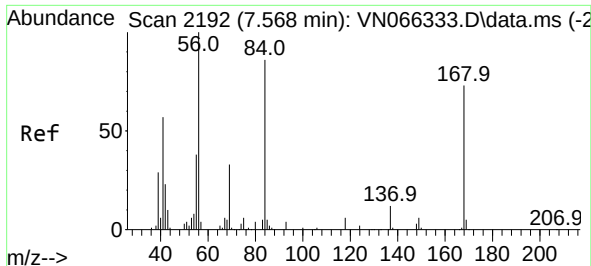


#27  
cis-1,2-Dichloroethene  
Concen: 0.86 ug/l  
RT: 6.734 min Scan# 1881  
Delta R.T. 0.003 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 5146  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 124.0 | 0.0   | 296.2 |
| 98       | 37.1  | 0.0   | 129.2 |

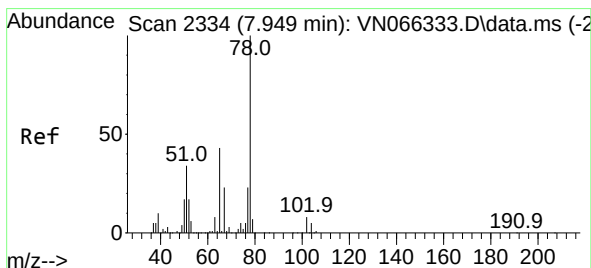
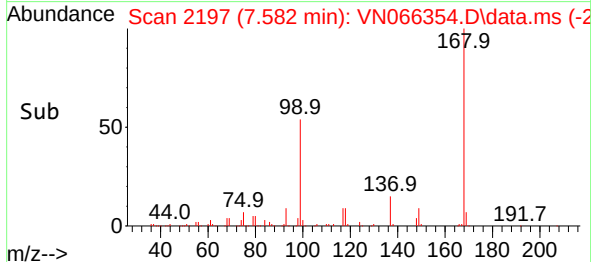
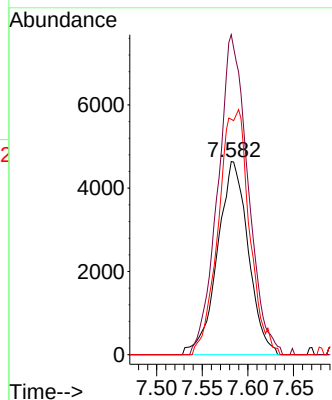
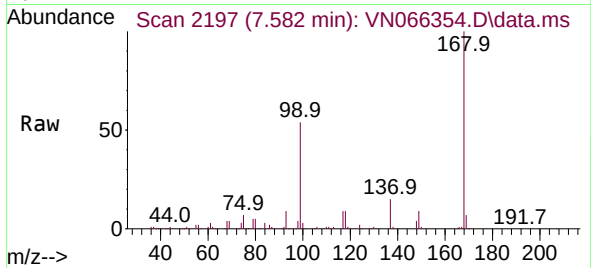




#31  
Cyclohexane  
Concen: 1.20 ug/l  
RT: 7.582 min Scan# 2197  
Delta R.T. 0.013 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

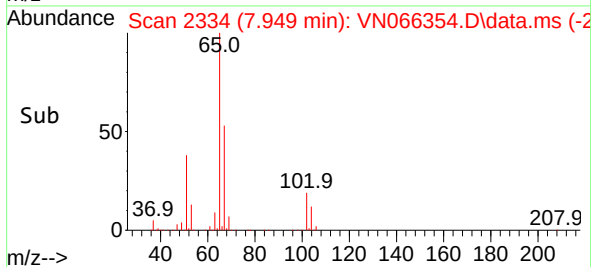
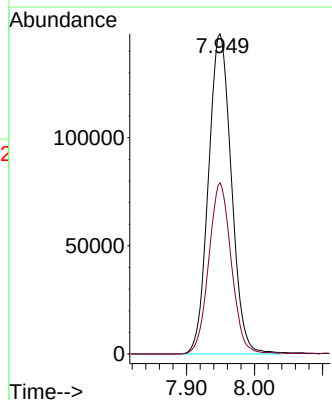
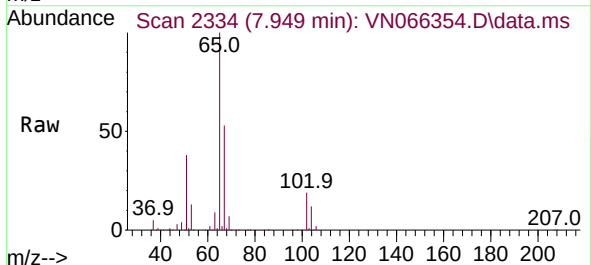
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE105D1-20210322

| Tgt Ion | Resp  | Lower | Upper  |
|---------|-------|-------|--------|
| 56      | 10886 |       |        |
| 69      | 165.7 | 26.6  | 40.0#  |
| 84      | 121.9 | 68.7  | 103.1# |

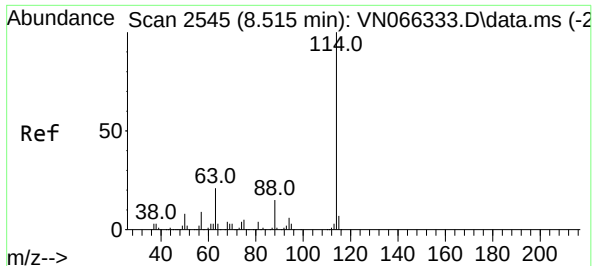


#33  
1,2-Dichloroethane-d4  
Concen: 52.81 ug/l  
RT: 7.949 min Scan# 2334  
Delta R.T. 0.000 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

| Tgt Ion | Resp   | Lower | Upper |
|---------|--------|-------|-------|
| 65      | 347161 |       |       |
| 67      | 52.6   | 0.0   | 105.2 |



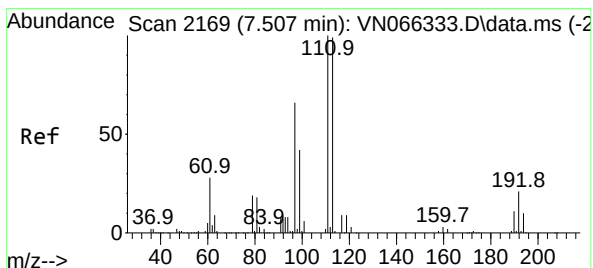
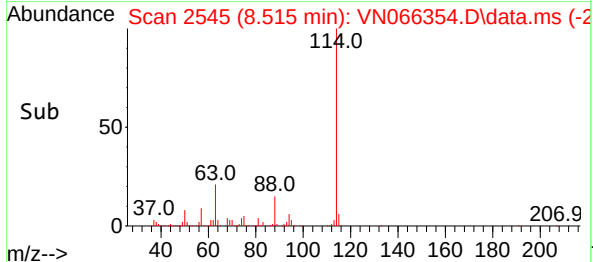
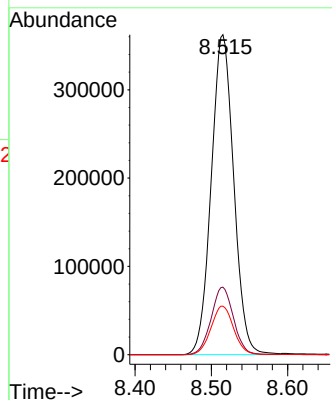
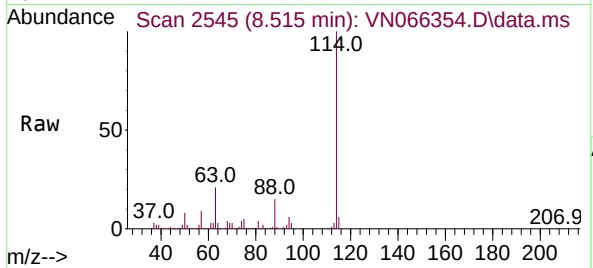




#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.515 min Scan# 2545  
Delta R.T. 0.000 min  
Lab File: VN066354.D  
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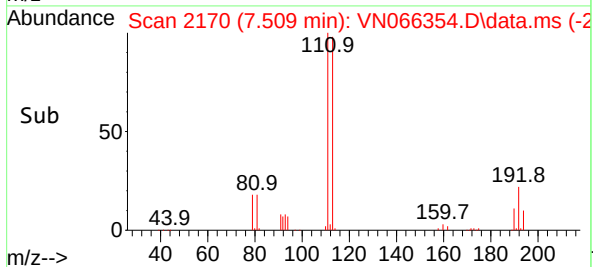
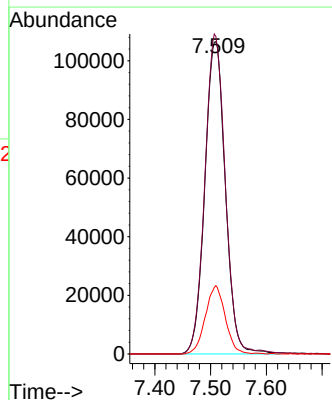
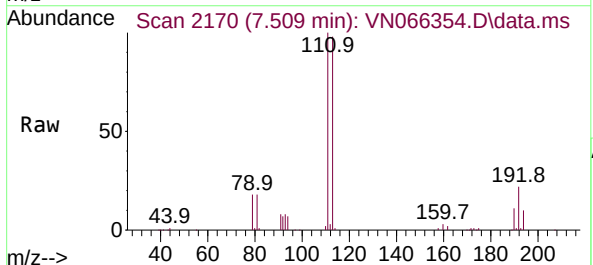
Instrument :  
MSVOA\_N  
ClientSampleId :  
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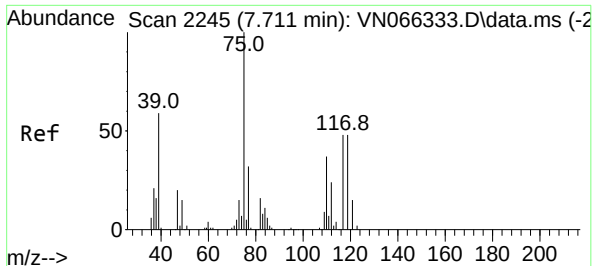
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 114   | Resp: | 742890 |
| Ion Ratio | Lower | Upper |        |
| 114       | 100   |       |        |
| 63        | 21.1  | 0.0   | 42.0   |
| 88        | 15.1  | 0.0   | 31.0   |



#35  
Dibromofluoromethane  
Concen: 55.28 ug/l  
RT: 7.509 min Scan# 2170  
Delta R.T. 0.002 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 113   | Resp: | 272224 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 101.3 | 81.8  | 122.8  |
| 192       | 21.2  | 17.1  | 25.7   |

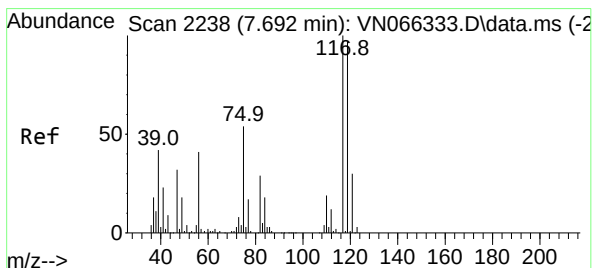
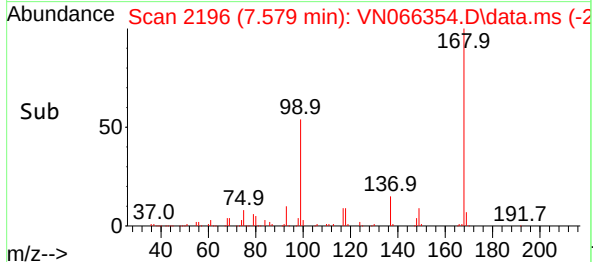
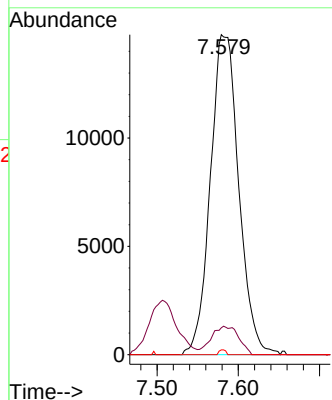
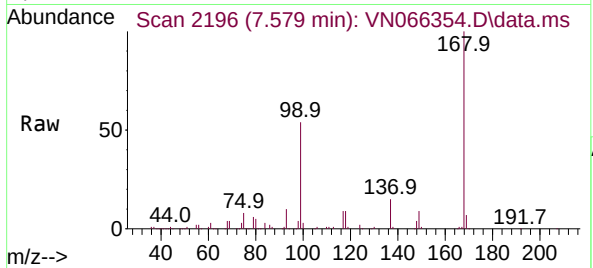




#36  
1,1-Dichloropropene  
Concen: 5.14 ug/l  
RT: 7.579 min Scan# 2196  
Delta R.T. -0.132 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

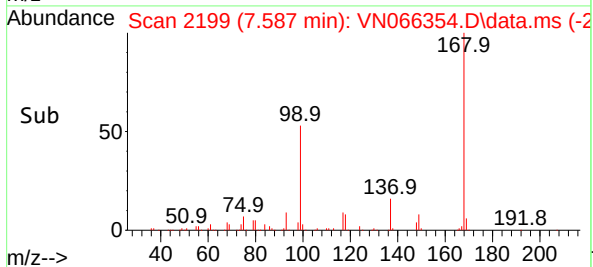
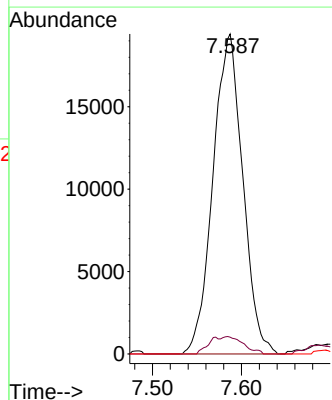
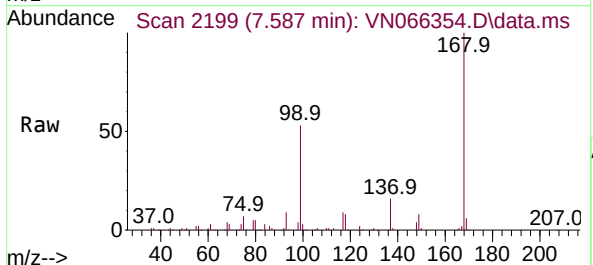
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE105D1-20210322

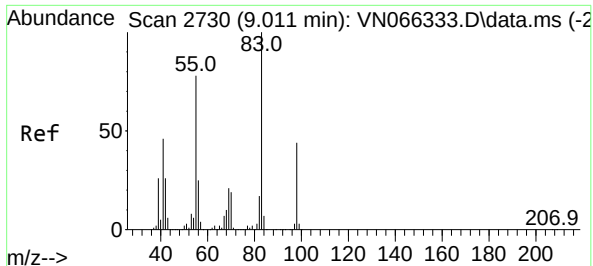
Tgt Ion: 75 Resp: 35888  
Ion Ratio Lower Upper  
75 100  
110 8.6 18.1 54.3#  
77 0.4 25.0 37.4#



#38  
Carbon Tetrachloride  
Concen: 6.43 ug/l  
RT: 7.587 min Scan# 2199  
Delta R.T. -0.105 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

Tgt Ion: 117 Resp: 45107  
Ion Ratio Lower Upper  
117 100  
119 5.2 77.2 115.8#  
121 0.0 24.2 36.4#





#39

Methylcyclohexane

Concen: 0.71 ug/l

RT: 8.764 min Scan# 2638

Delta R.T. -0.247 min

Lab File: VN066354.D

Acq: 26 Mar 2021 17:09

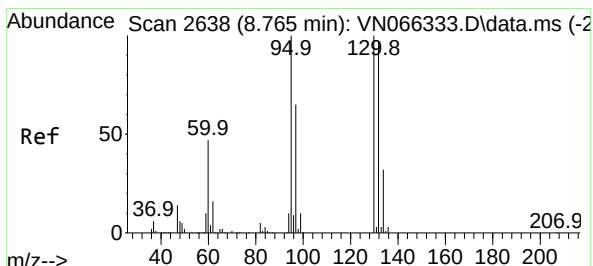
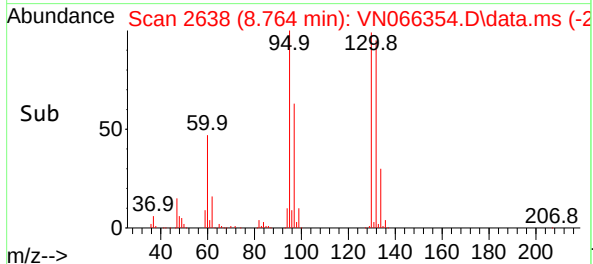
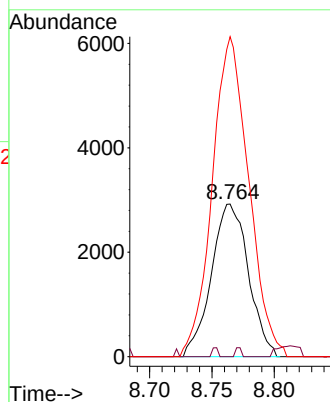
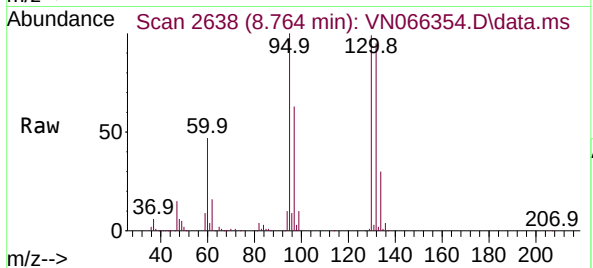
Instrument :

MSVOA\_N

ClientSampleId :

RE105D1-20210322

|             |             |
|-------------|-------------|
| Tgt Ion: 83 | Resp: 6059  |
| Ion Ratio   | Lower Upper |
| 83 100      |             |
| 55 0.0      | 62.3 93.5#  |
| 98 209.5    | 35.6 53.4#  |



#44

Trichloroethene

Concen: 88.62 ug/l

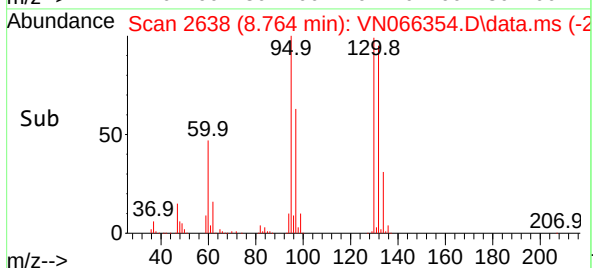
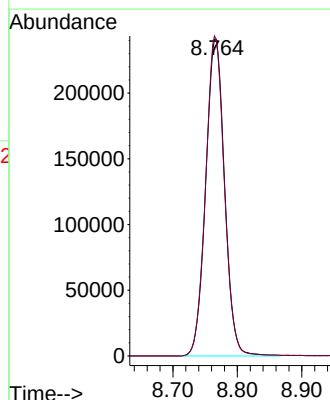
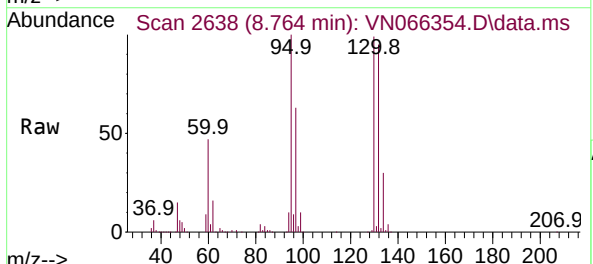
RT: 8.764 min Scan# 2638

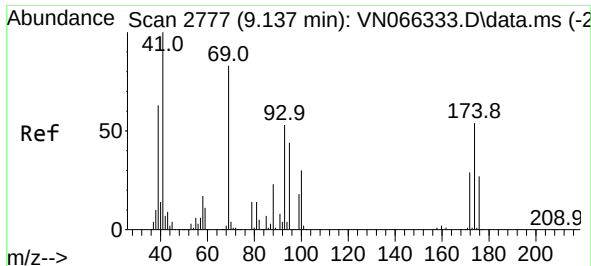
Delta R.T. -0.000 min

Lab File: VN066354.D

Acq: 26 Mar 2021 17:09

|              |              |
|--------------|--------------|
| Tgt Ion: 130 | Resp: 491293 |
| Ion Ratio    | Lower Upper  |
| 130 100      |              |
| 95 101.0     | 0.0 200.6    |

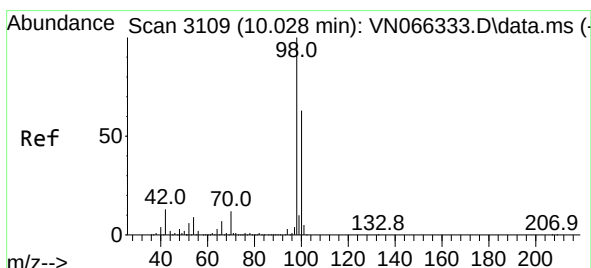
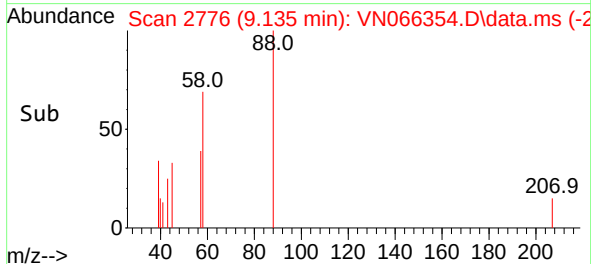
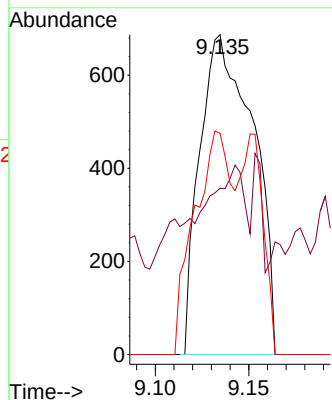
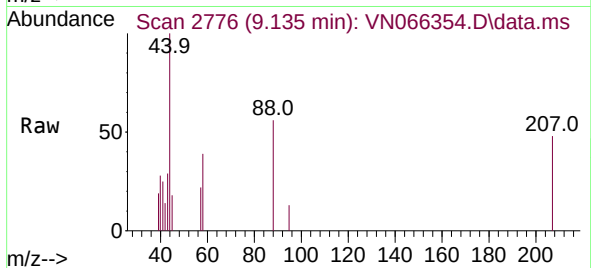




#49  
1,4-Dioxane  
Concen: 17.36 ug/l  
RT: 9.135 min Scan# 2776  
Delta R.T. -0.003 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

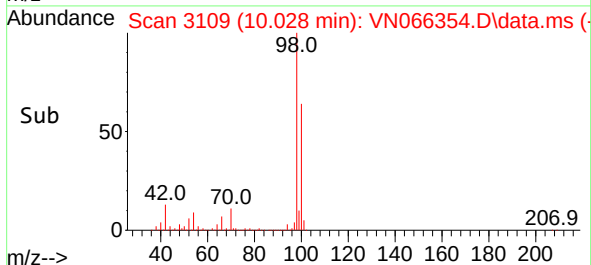
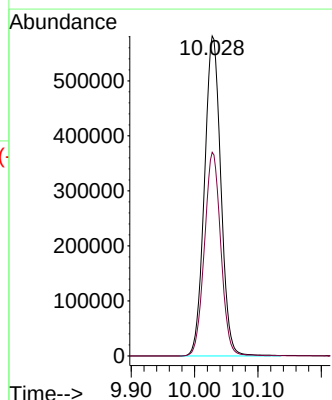
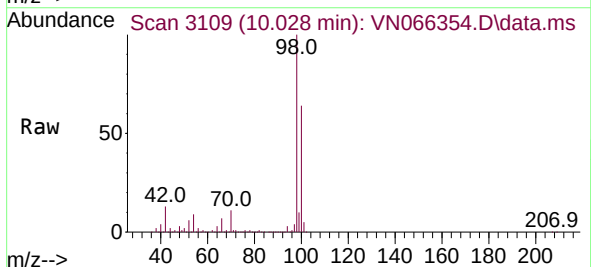
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE105D1-20210322

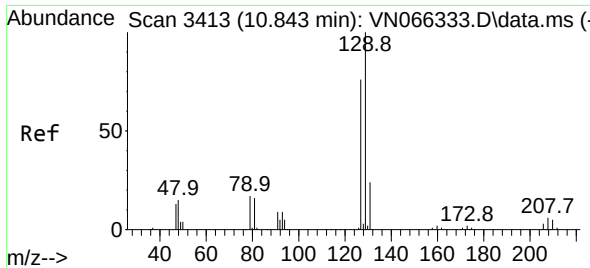
Tgt Ion: 88 Resp: 1363  
Ion Ratio Lower Upper  
88 100  
43 0.0 28.2 42.4#  
58 49.2 56.6 84.8#



#50  
Toluene-d8  
Concen: 55.91 ug/l  
RT: 10.028 min Scan# 3109  
Delta R.T. -0.000 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

Tgt Ion: 98 Resp: 1044462  
Ion Ratio Lower Upper  
98 100  
100 63.5 50.5 75.7

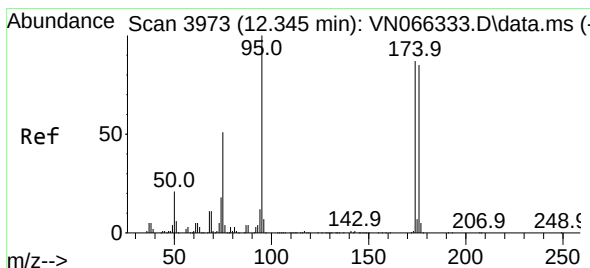
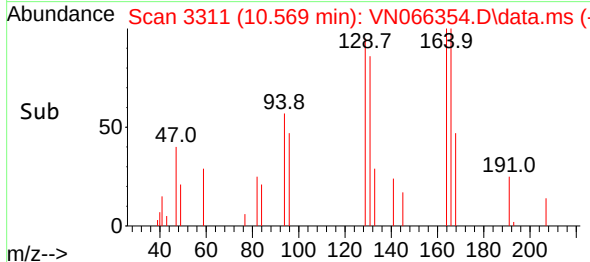
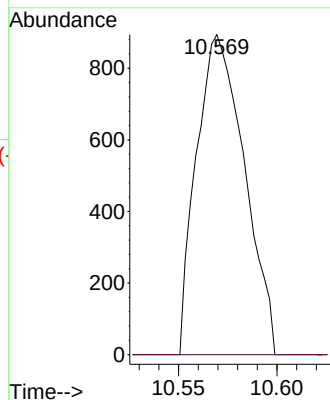
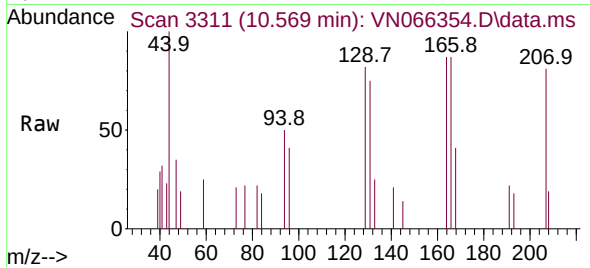




#60  
Dibromochloromethane  
Concen: 0.26 ug/l  
RT: 10.569 min Scan# 3311  
Delta R.T. -0.274 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

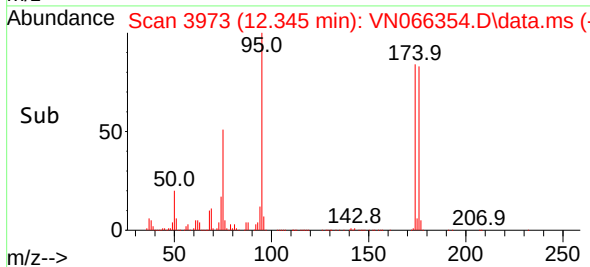
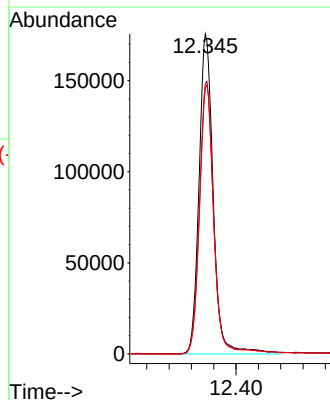
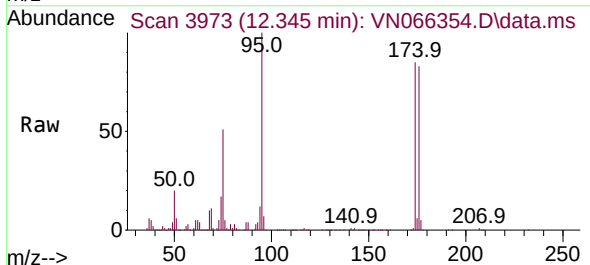
Instrument :  
MSVOA\_N  
ClientSampleId :  
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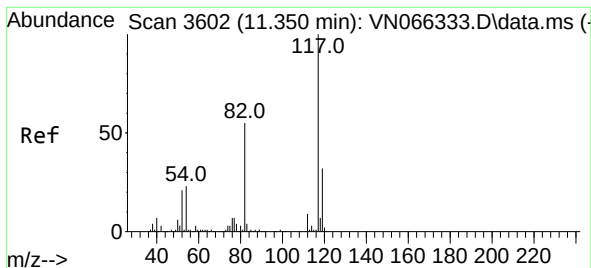
Tgt Ion:129 Resp: 1510  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.5 115.5#



#62  
4-Bromofluorobenzene  
Concen: 47.87 ug/l  
RT: 12.345 min Scan# 3973  
Delta R.T. -0.000 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

Tgt Ion: 95 Resp: 310619  
Ion Ratio Lower Upper  
95 100  
174 84.1 0.0 172.2  
176 82.4 0.0 167.8

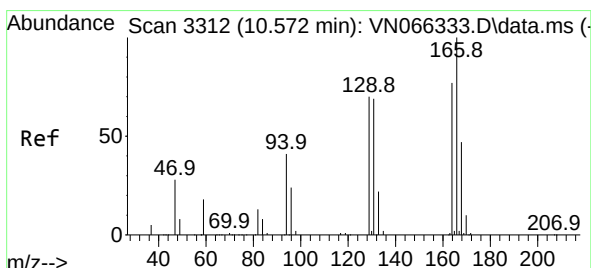
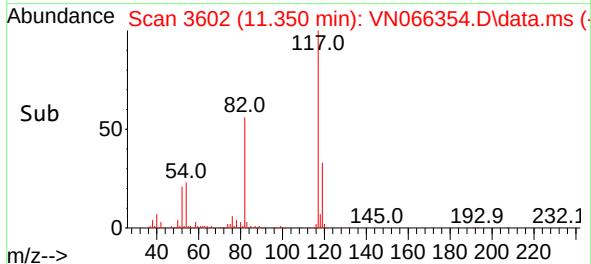
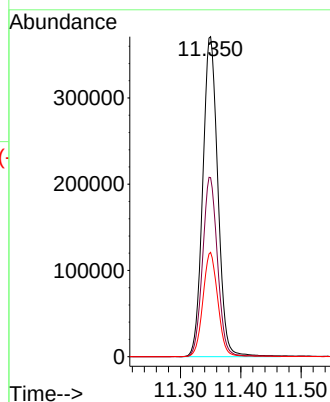
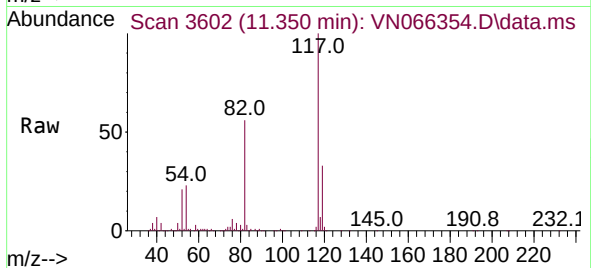




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.350 min Scan# 3602  
Delta R.T. -0.000 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

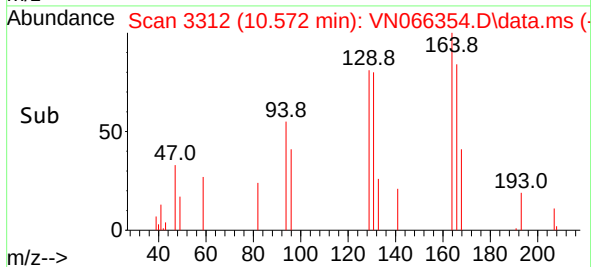
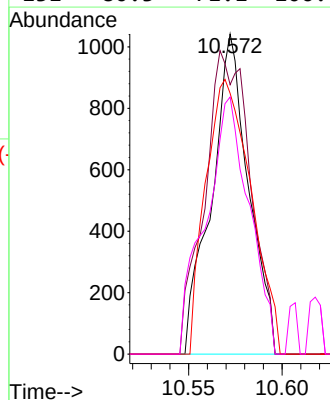
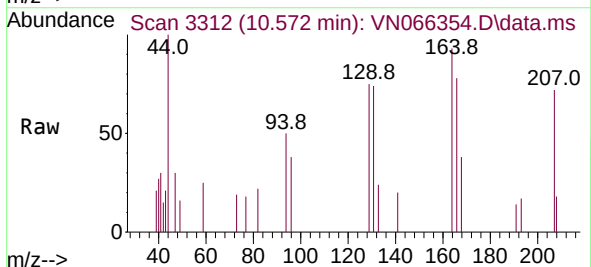
Instrument :  
MSVOA\_N  
ClientSampleId :  
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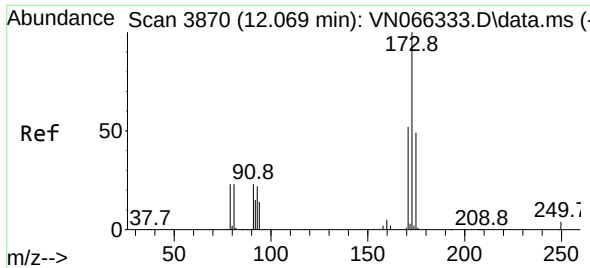
Tgt Ion:117 Resp: 646343  
Ion Ratio Lower Upper  
117 100  
82 55.9 44.2 66.4  
119 32.6 25.8 38.6



#64  
Tetrachloroethene  
Concen: 0.26 ug/l  
RT: 10.572 min Scan# 3312  
Delta R.T. -0.000 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

Tgt Ion:164 Resp: 1441  
Ion Ratio Lower Upper  
164 100  
166 84.2 103.3 154.9#  
129 81.5 72.5 108.7  
131 80.3 71.1 106.7

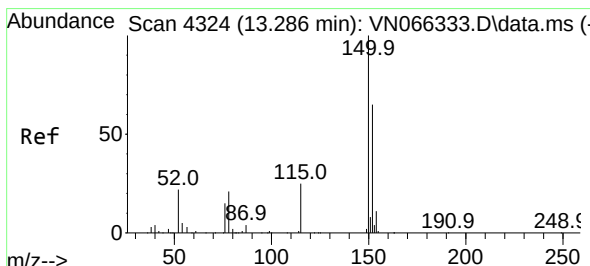
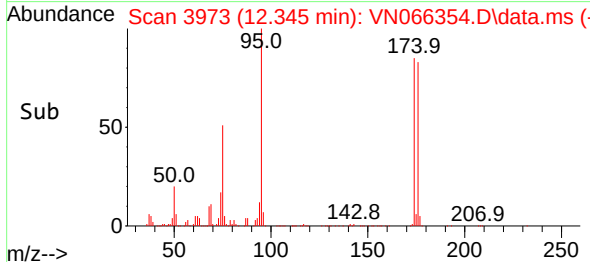
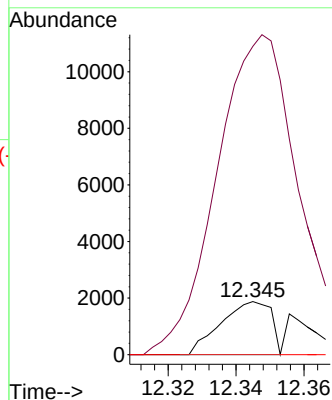
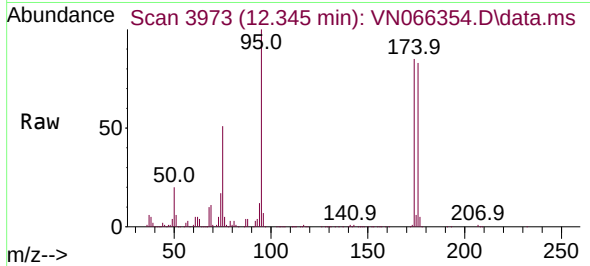




#71  
Bromoform  
Concen: 0.47 ug/l  
RT: 12.345 min Scan# 3973  
Delta R.T. 0.276 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

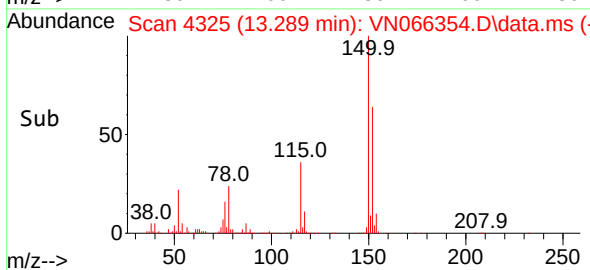
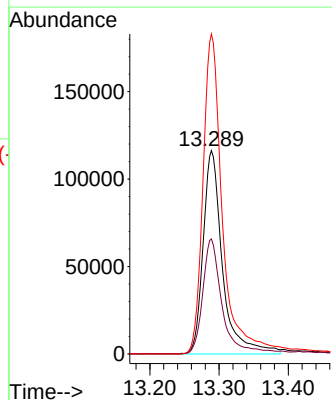
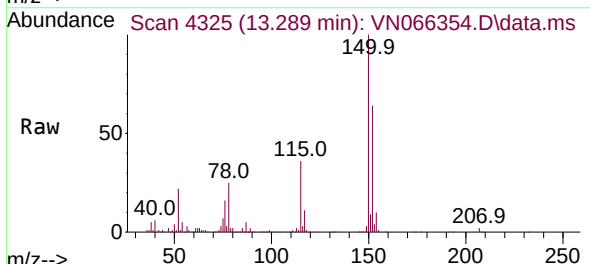
Instrument :  
MSVOA\_N  
ClientSampleId :  
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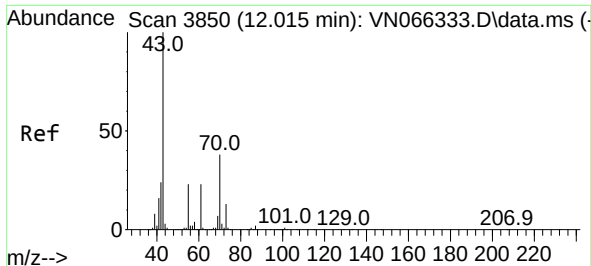
Tgt Ion:173 Resp: 1928  
Ion Ratio Lower Upper  
173 100  
175 861.7 24.3 72.8#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.289 min Scan# 4325  
Delta R.T. 0.003 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

Tgt Ion:152 Resp: 226821  
Ion Ratio Lower Upper  
152 100  
115 56.1 27.8 83.4  
150 158.9 0.0 348.4

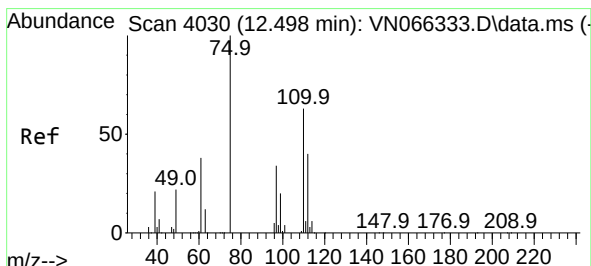
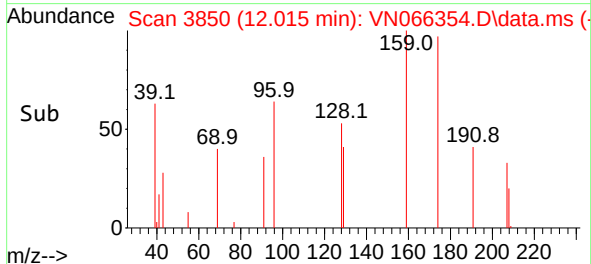
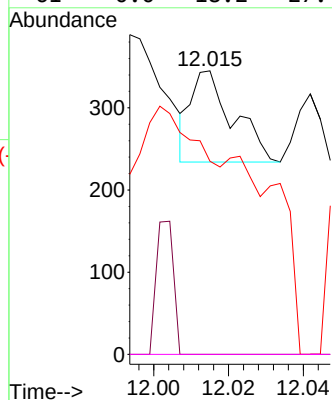
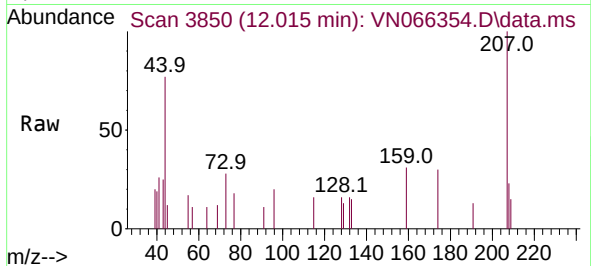




#74  
N-amy1 acetate  
Concen: 3.21 ug/l  
RT: 12.015 min Scan# 3850  
Delta R.T. 0.000 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

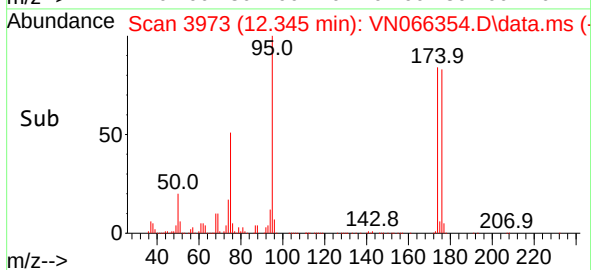
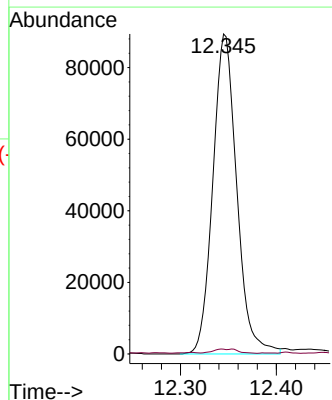
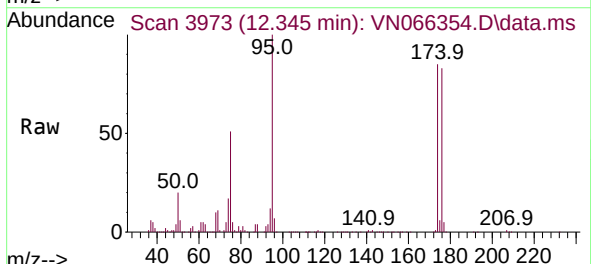
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE105D1-20210322

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 87    |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 70       | 0.0   | 31.2  | 46.8# |
| 55       | 0.0   | 18.6  | 28.0# |
| 61       | 0.0   | 18.2  | 27.4# |

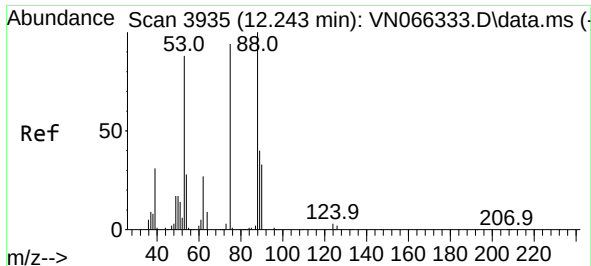


#76  
1,2,3-Trichloropropane  
Concen: 31.11 ug/l  
RT: 12.345 min Scan# 3973  
Delta R.T. -0.153 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 154818 |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 77       | 0.7   | 0.0   | 0.0#   |



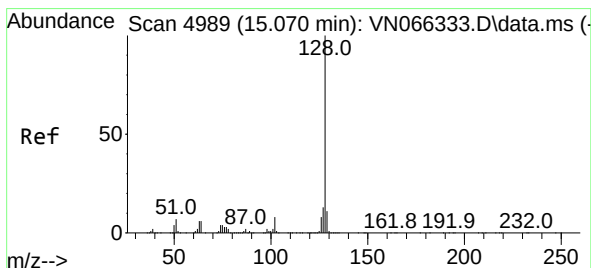
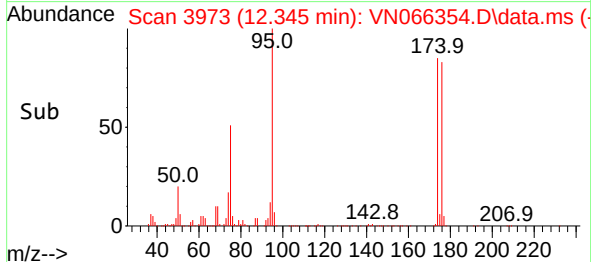
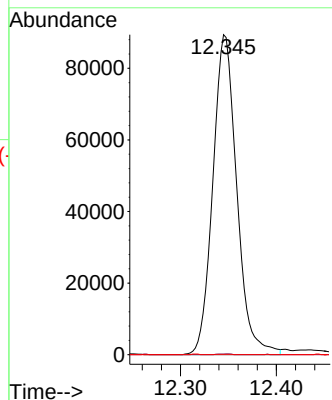
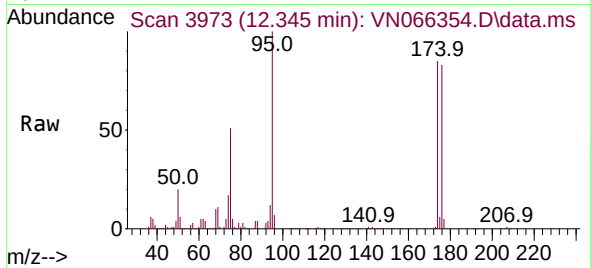




#81  
trans-1,4-Dichloro-2-butene  
Concen: 93.54 ug/l  
RT: 12.345 min Scan# 3973  
Delta R.T. 0.102 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

Instrument :  
MSVOA\_N  
ClientSampleId :  
RE105D1-20210322

Tgt Ion: 75 Resp: 154818  
Ion Ratio Lower Upper  
75 100  
53 0.1 76.1 114.1#  
89 0.0 35.7 53.5#



#95  
Naphthalene  
Concen: 1.11 ug/l  
RT: 15.072 min Scan# 4990  
Delta R.T. 0.002 min  
Lab File: VN066354.D  
Acq: 26 Mar 2021 17:09

Tgt Ion: 128 Resp: 897  
Ion Ratio Lower Upper  
128 100  
127 16.1 10.5 15.7#  
129 50.7 8.5 12.7#

