

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX071921\  
 Data File : VX023340.D  
 Acq On : 19 Jul 2021 14:31  
 Operator : JC/MD  
 Sample : PB137749ZHE#04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

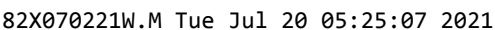
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB137749ZHE#04

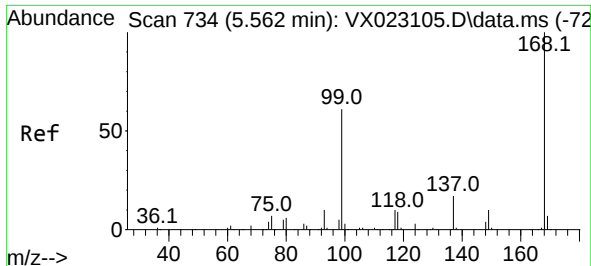
Quant Time: Jul 20 05:25:00 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X070221W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 02 14:29:42 2021  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 5.568          | 168  | 211639              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.775          | 114  | 347385              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.061         | 117  | 317571              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 141053              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.970          | 65   | 149959              | 52.720    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 105.440% |           |        |          |
| 35) Dibromofluoromethane      | 5.397          | 113  | 113974              | 50.807    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 101.620% |           |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 389851              | 46.589    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 93.180%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 154447              | 47.809    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 95.620%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           | Qvalue |          |
| 5) Bromomethane               | 1.618          | 94   | 507                 | Below Cal | #      | 58       |
| 11) Tert butyl alcohol        | 2.953          | 59   | 5076                | 8.483     | ug/l # | 75       |
| 16) Acetone                   | 2.392          | 43   | 40613               | 36.090    | ug/l   | 89       |
| 18) Methyl Acetate            | 2.715          | 43   | 1874                | 0.686     | ug/l   | 95       |
| 20) Methylene Chloride        | 2.794          | 84   | 22472               | 9.275     | ug/l   | 94       |
| 25) 2-Butanone                | 4.587          | 43   | 7407                | 4.365     | ug/l   | 96       |
| 26) 2,2-Dichloropropane       | 4.593          | 77   | 778                 | 0.237     | ug/l # | 52       |
| 29) Tetrahydrofuran           | 5.025          | 42   | 2732                | 2.505     | ug/l # | 27       |
| 31) Cyclohexane               | 5.574          | 56   | 4479                | 1.315     | ug/l # | 42       |
| 36) 1,1-Dichloropropene       | 5.562          | 75   | 16957               | 5.475     | ug/l # | 50       |
| 37) Ethyl Acetate             | 4.587          | 43   | 7407                | 2.193     | ug/l # | 74       |
| 38) Carbon Tetrachloride      | 5.568          | 117  | 22157               | 6.854     | ug/l # | 16       |
| 43) Isopropyl Acetate         | 6.354          | 43   | 32899               | 5.855     | ug/l   | 95       |
| 48) Methyl methacrylate       | 7.805          | 41   | 169195              | 61.362    | ug/l # | 37       |
| 49) 1,4-Dioxane               | 7.690          | 88   | 20                  | 0.322     | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.555          | 43   | 85559               | 24.571    | ug/l # | 48       |
| 54) cis-1,3-Dichloropropene   | 8.555          | 75   | 47780               | 13.519    | ug/l # | 56       |
| 57) 1,3-Dichloropropane       | 9.488          | 76   | 30766               | 7.618     | ug/l # | 43       |
| 59) 2-Hexanone                | 9.488          | 43   | 415480              | 155.513   | ug/l # | 43       |
| 74) N-amyl acetate            | 10.768         | 43   | 964                 | 0.229     | ug/l # | 47       |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 80399               | 28.325    | ug/l # | 38       |
| 80) 1,3,5-Trimethylbenzene    | 11.457         | 105  | 2115                | 0.247     | ug/l   | 85       |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 80399               | 76.319    | ug/l # | 12       |
| 95) Naphthalene               | 13.786         | 128  | 280                 | 1.302     | ug/l # | 69       |
| -----                         |                |      |                     |           |        |          |

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

Quant Time: Jul 20 05:25:00 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X070221W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 02 14:29:42 2021  
Response via : Initial Calibration

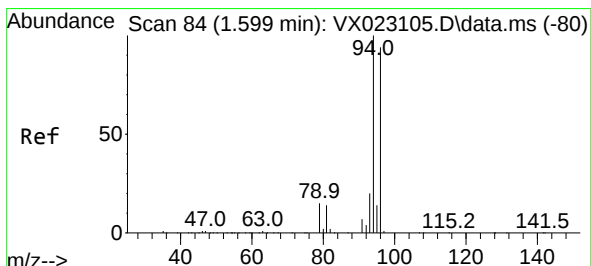
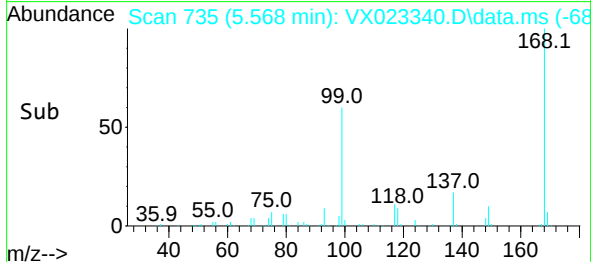
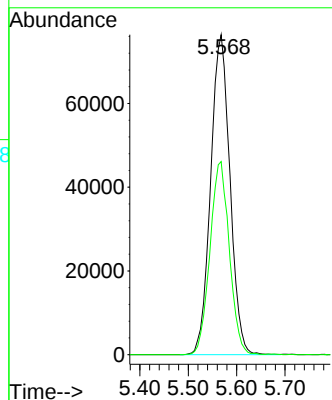
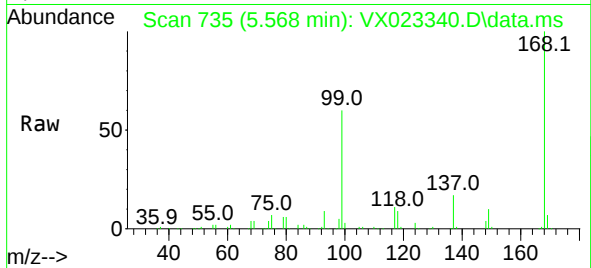




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.568 min Scan# 735  
Delta R.T. 0.006 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

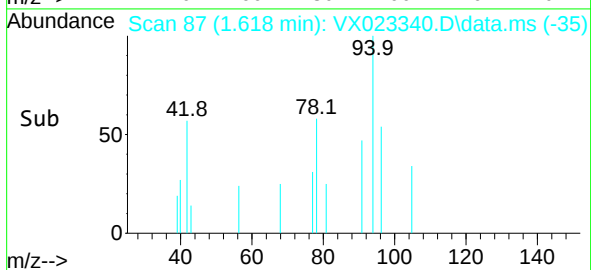
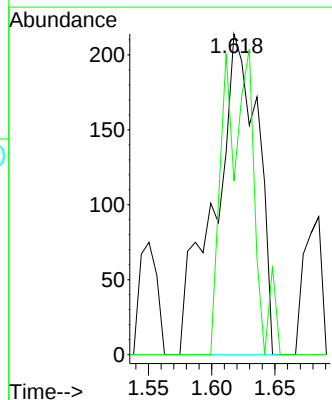
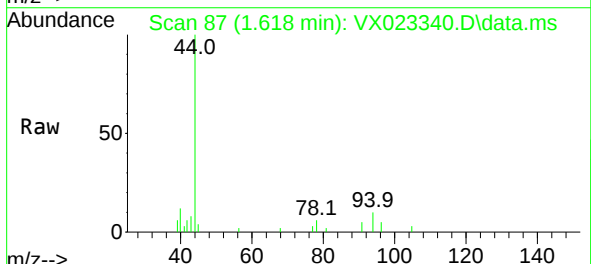
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB137749ZHE#04

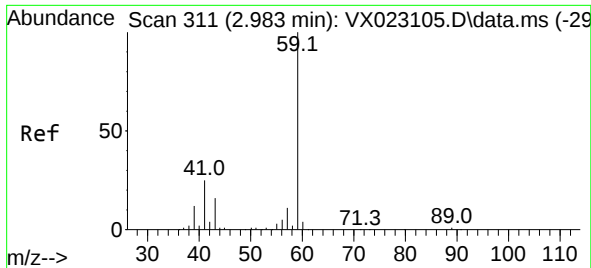
Tgt Ion:168 Resp: 211639  
Ion Ratio Lower Upper  
168 100  
99 60.4 45.8 68.6



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.618 min Scan# 87  
Delta R.T. 0.019 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

Tgt Ion: 94 Resp: 507  
Ion Ratio Lower Upper  
94 100  
96 54.2 76.4 114.6#

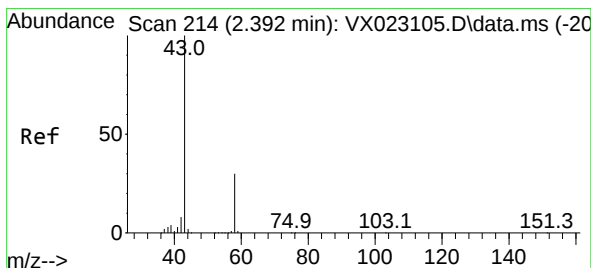
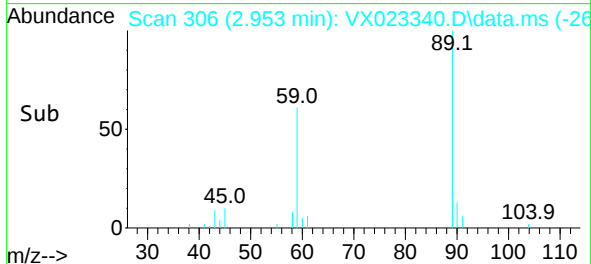
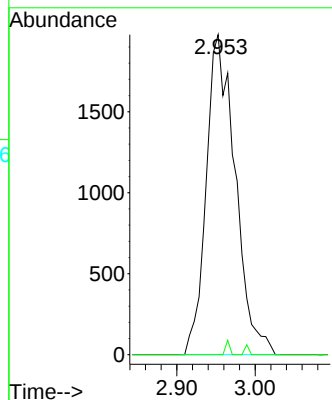
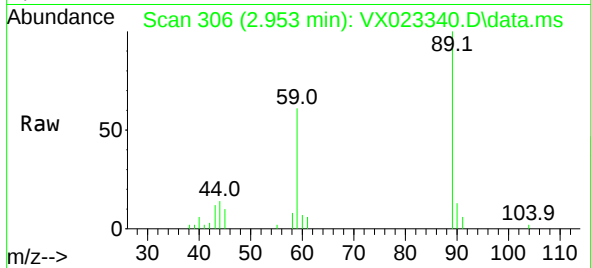




#11  
Tert butyl alcohol  
Concen: 8.483 ug/l  
RT: 2.953 min Scan# 306  
Delta R.T. -0.030 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

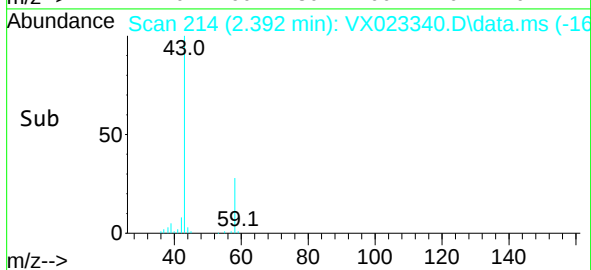
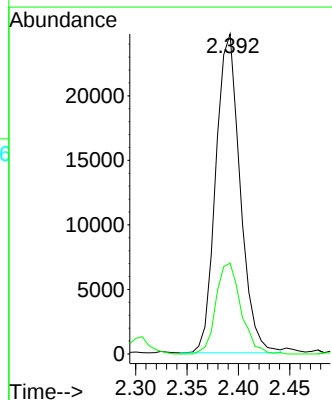
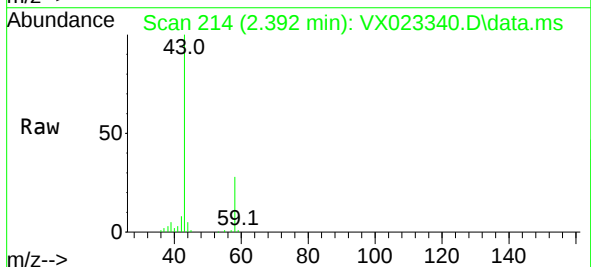
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB137749ZHE#04

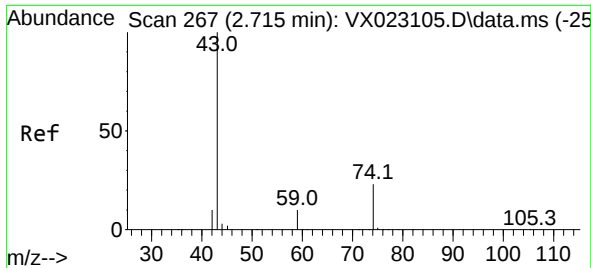
Tgt Ion: 59 Resp: 5076  
Ion Ratio Lower Upper  
59 100  
57 0.7 7.8 11.8#



#16  
Acetone  
Concen: 36.090 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. -0.000 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

Tgt Ion: 43 Resp: 40613  
Ion Ratio Lower Upper  
43 100  
58 28.5 27.8 41.8

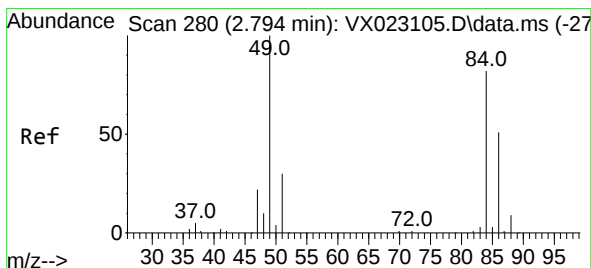
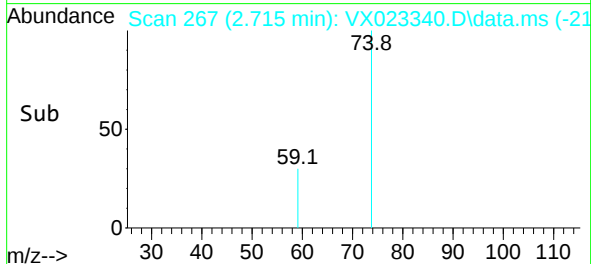
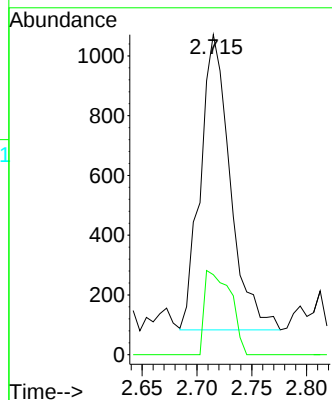
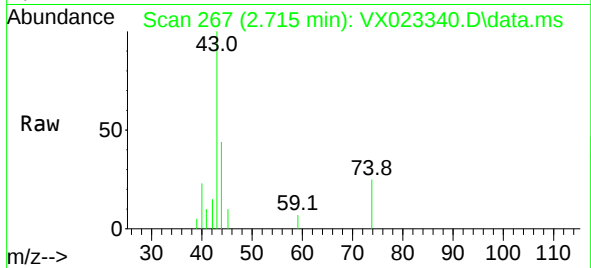




#18  
Methyl Acetate  
Concen: 0.686 ug/l  
RT: 2.715 min Scan# 267  
Delta R.T. -0.000 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

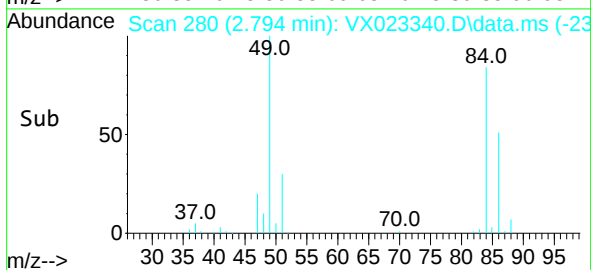
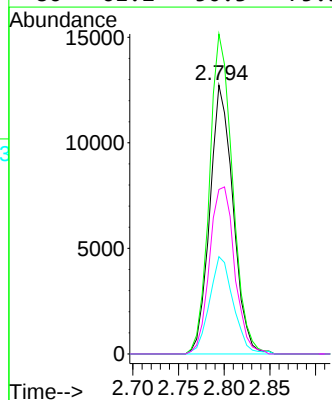
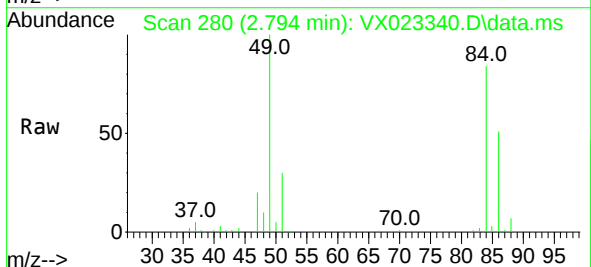
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB137749ZHE#04

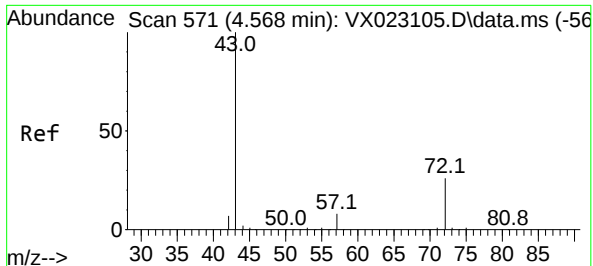
Tgt Ion: 43 Resp: 1874  
Ion Ratio Lower Upper  
43 100  
74 24.9 21.9 32.9



#20  
Methylene Chloride  
Concen: 9.275 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. 0.000 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

Tgt Ion: 84 Resp: 22472  
Ion Ratio Lower Upper  
84 100  
49 119.1 88.6 132.8  
51 36.2 27.0 40.6  
86 61.2 50.3 75.5

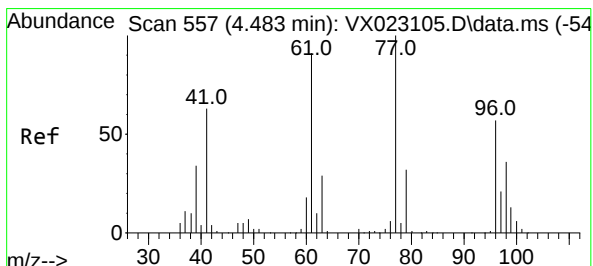
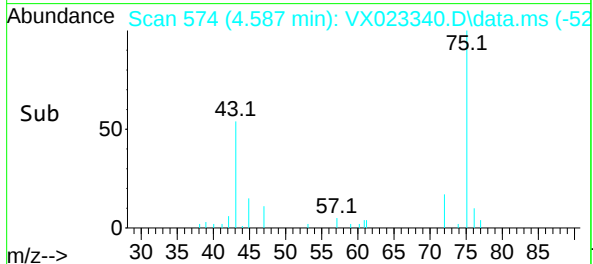
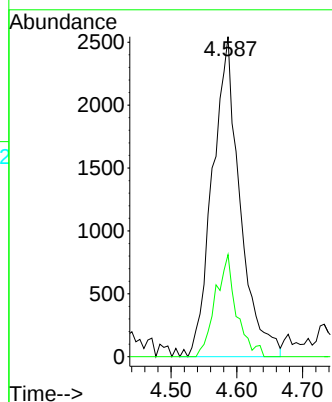
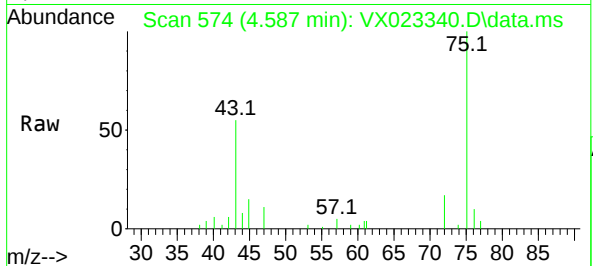




#25  
2-Butanone  
Concen: 4.365 ug/l  
RT: 4.587 min Scan# 574  
Delta R.T. 0.019 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

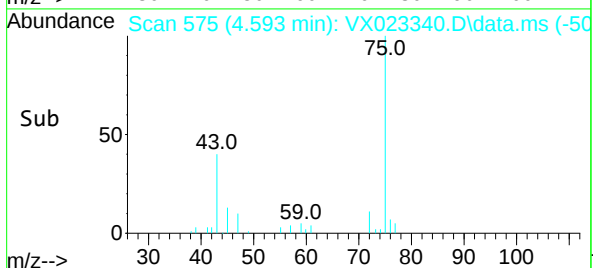
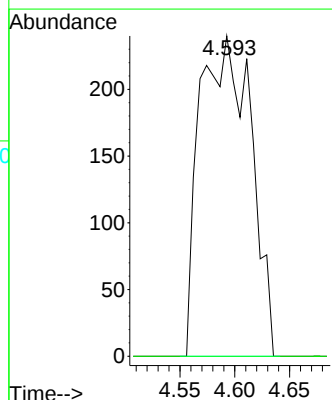
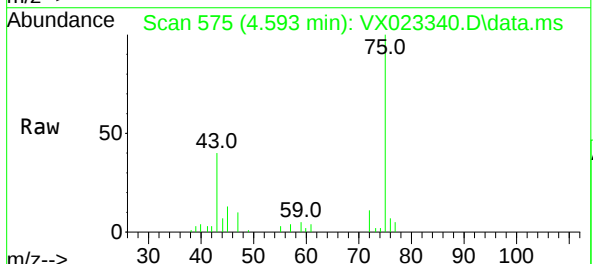
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB137749ZHE#04

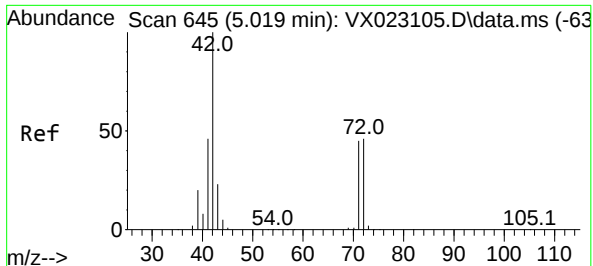
Tgt Ion: 43 Resp: 7407  
Ion Ratio Lower Upper  
43 100  
72 31.9 23.7 35.5



#26  
2,2-Dichloropropane  
Concen: 0.237 ug/l  
RT: 4.593 min Scan# 575  
Delta R.T. 0.110 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

Tgt Ion: 77 Resp: 778  
Ion Ratio Lower Upper  
77 100  
97 0.0 11.7 35.1#





#29

Tetrahydrofuran

Concen: 2.505 ug/l

RT: 5.025 min Scan# 646

Delta R.T. 0.006 min

Lab File: VX023340.D

Acq: 19 Jul 2021 14:31

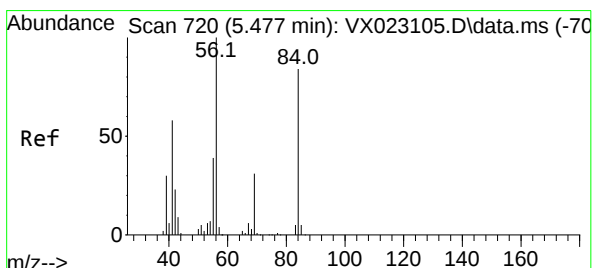
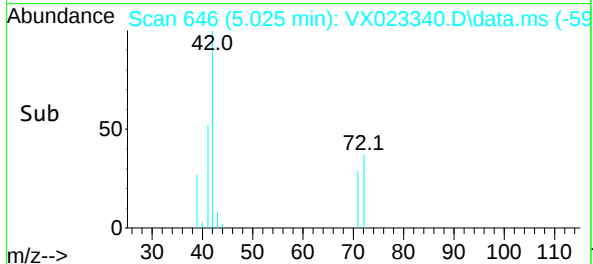
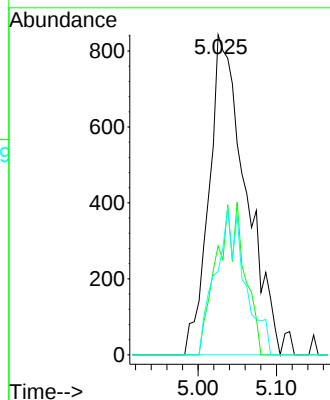
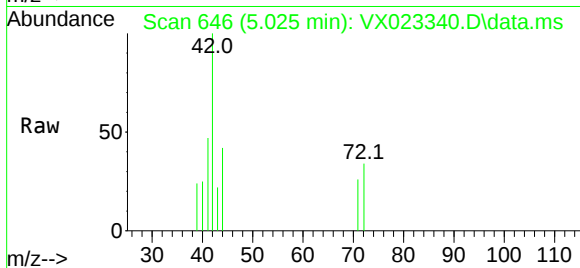
Instrument :

MSVOA\_X

ClientSampleId :

PB137749ZHE#04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 2732  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 41.7  | 62.5# |
| 71       | 0.0   | 38.4  | 57.6# |



#31

Cyclohexane

Concen: 1.315 ug/l

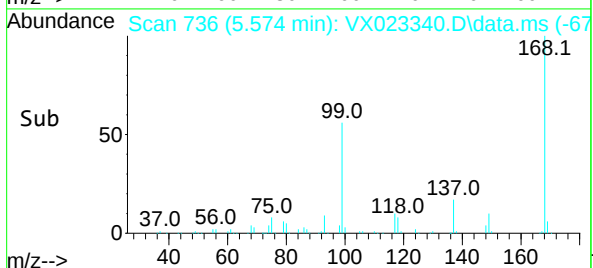
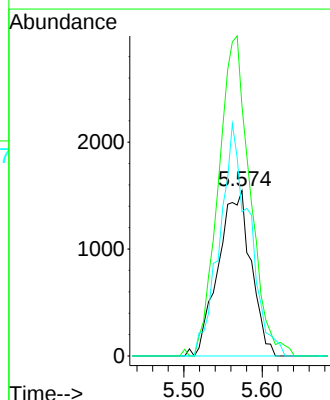
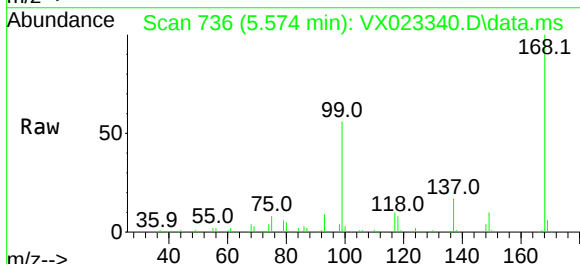
RT: 5.574 min Scan# 736

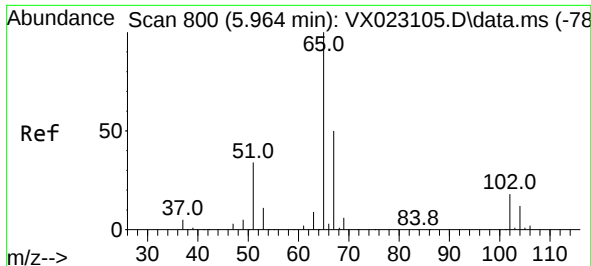
Delta R.T. 0.097 min

Lab File: VX023340.D

Acq: 19 Jul 2021 14:31

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 4479  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 151.2 | 25.3  | 37.9# |
| 84       | 87.2  | 71.4  | 107.0 |

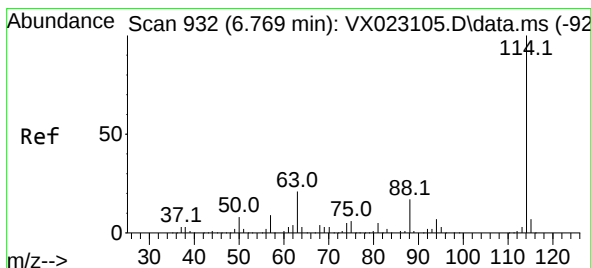
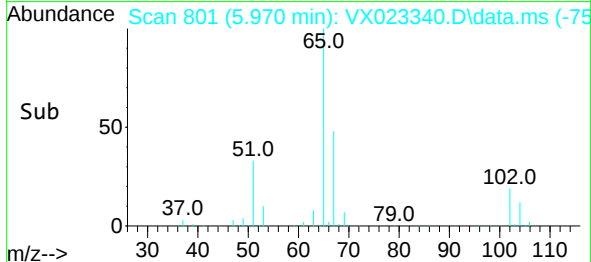
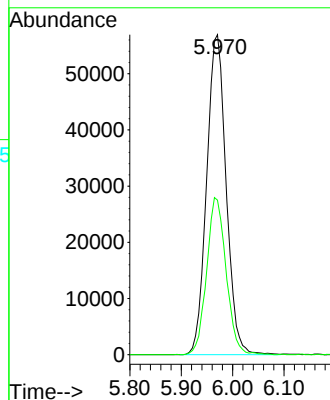
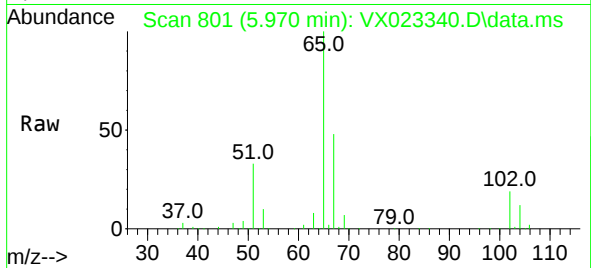




#33  
1,2-Dichloroethane-d4  
Concen: 52.720 ug/l  
RT: 5.970 min Scan# 801  
Delta R.T. 0.006 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

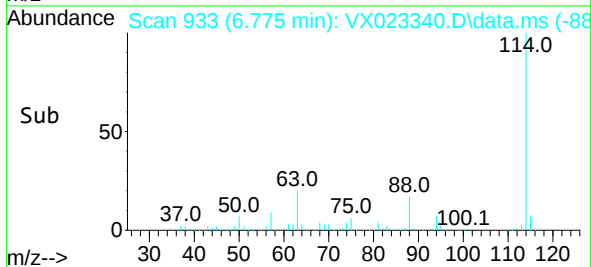
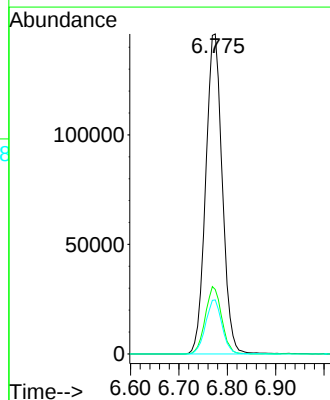
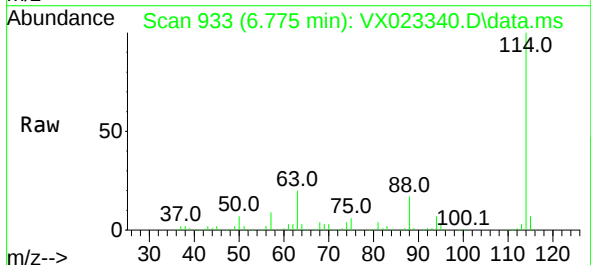
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB137749ZHE#04

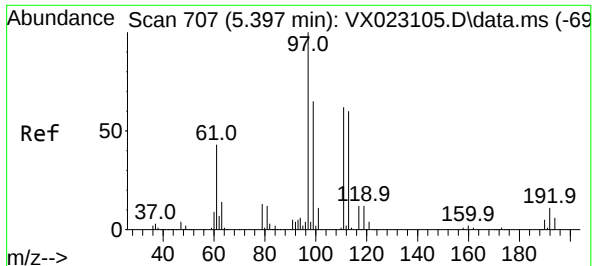
Tgt Ion: 65 Resp: 149959  
Ion Ratio Lower Upper  
65 100  
67 49.0 0.0 105.4



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.775 min Scan# 933  
Delta R.T. 0.006 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

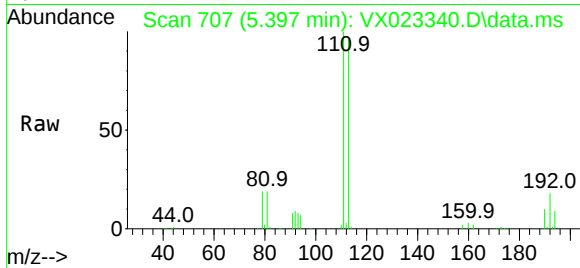
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Ion Ratio Lower Upper  
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88 16.9 0.0 32.8



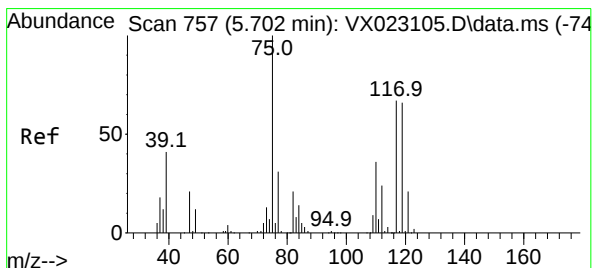
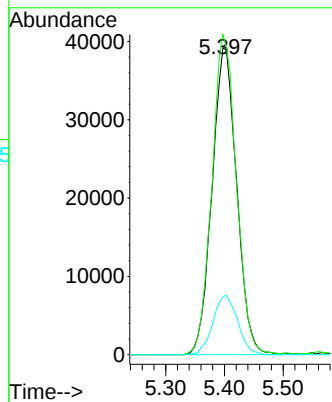
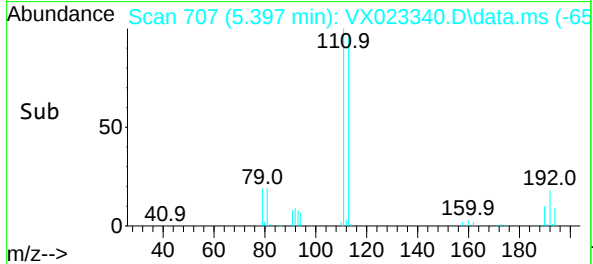


#35  
Dibromofluoromethane  
Concen: 50.807 ug/l  
RT: 5.397 min Scan# 707  
Delta R.T. 0.000 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

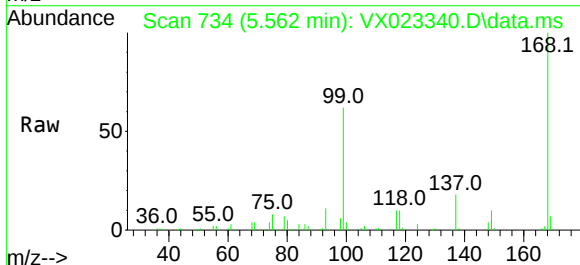
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB137749ZHE#04



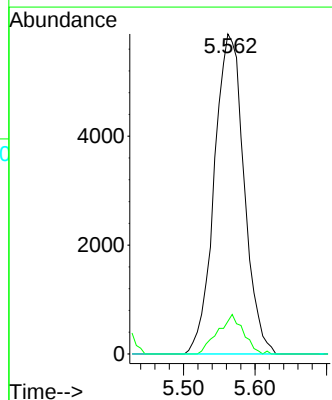
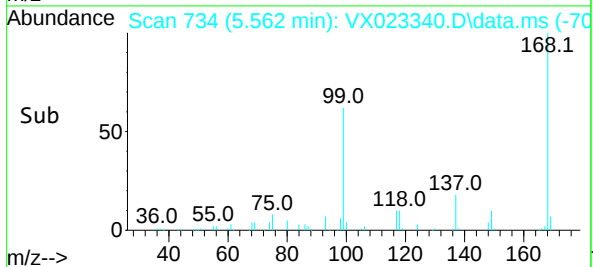
Tgt Ion:113 Resp: 113974  
Ion Ratio Lower Upper  
113 100  
111 103.6 81.9 122.9  
192 19.4 16.7 25.1

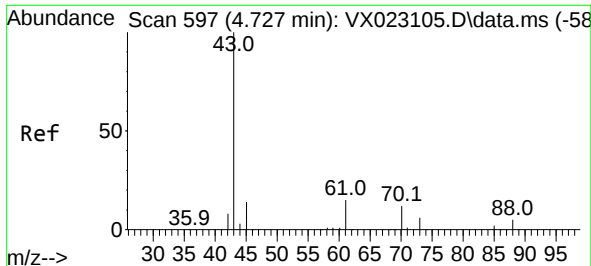


#36  
1,1-Dichloropropene  
Concen: 5.475 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.140 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31



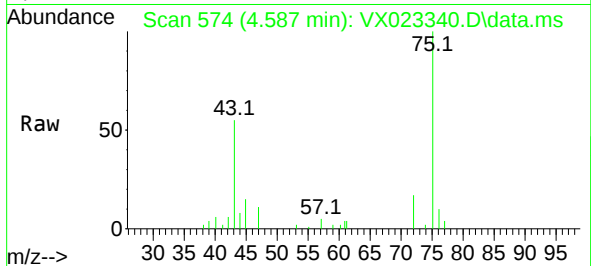
Tgt Ion: 75 Resp: 16957  
Ion Ratio Lower Upper  
75 100  
110 10.7 18.1 54.4#  
77 0.0 25.3 37.9#



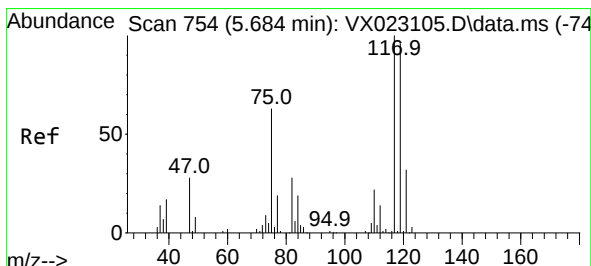
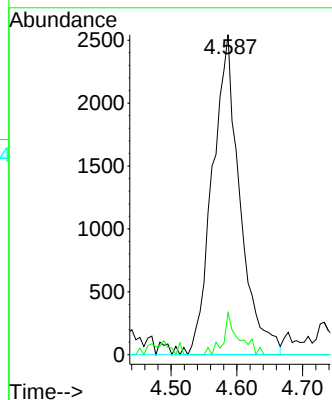
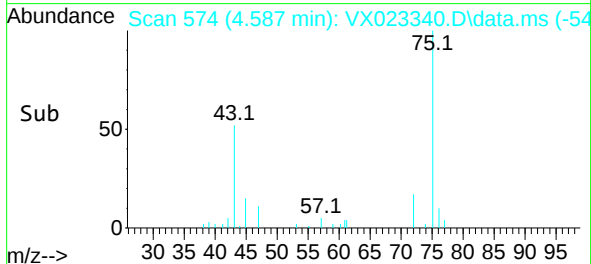


#37  
Ethyl Acetate  
Concen: 2.193 ug/l  
RT: 4.587 min Scan# 574  
Delta R.T. -0.141 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

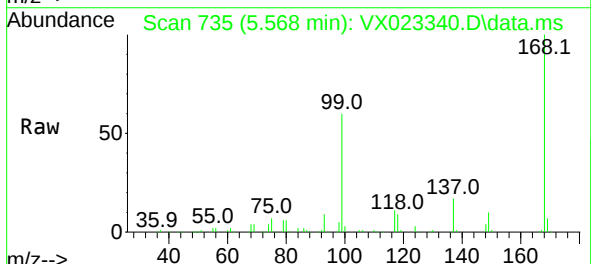
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB137749ZHE#04



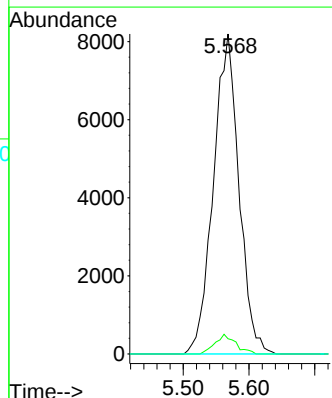
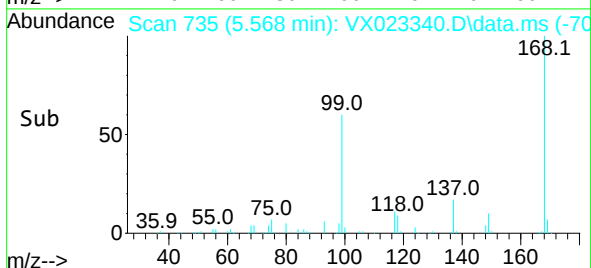
Tgt Ion: 43 Resp: 7407  
Ion Ratio Lower Upper  
43 100  
61 7.3 12.8 19.2#  
70 0.0 10.5 15.7#

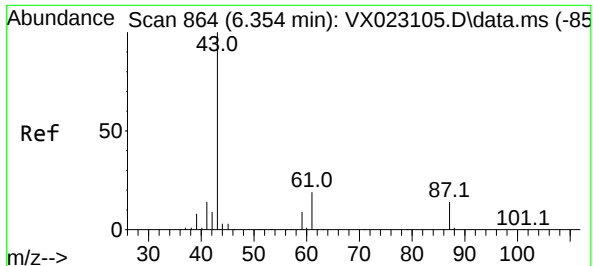


#38  
Carbon Tetrachloride  
Concen: 6.854 ug/l  
RT: 5.568 min Scan# 735  
Delta R.T. -0.116 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31



Tgt Ion: 117 Resp: 22157  
Ion Ratio Lower Upper  
117 100  
119 4.7 76.2 114.2#  
121 0.0 24.8 37.2#

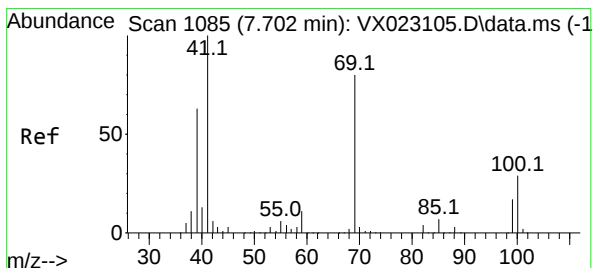
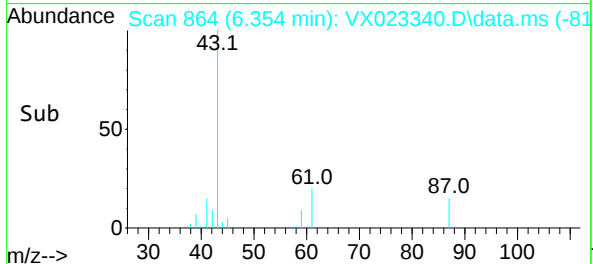
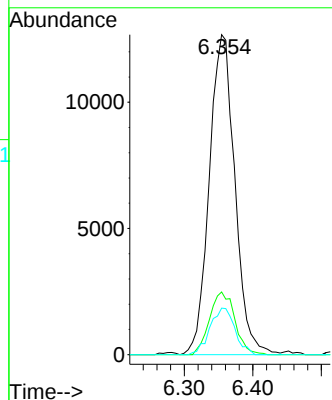
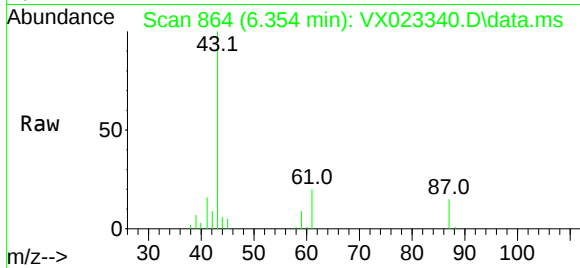




#43  
Isopropyl Acetate  
Concen: 5.855 ug/l  
RT: 6.354 min Scan# 864  
Delta R.T. 0.000 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

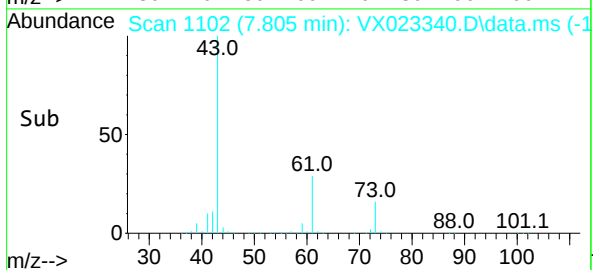
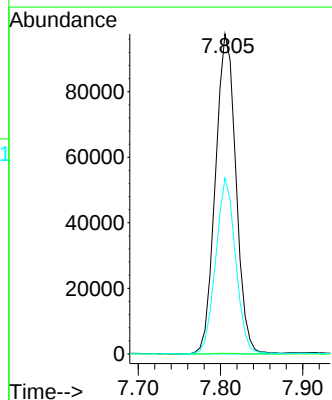
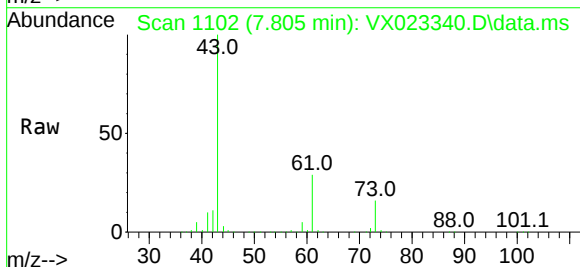
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB137749ZHE#04

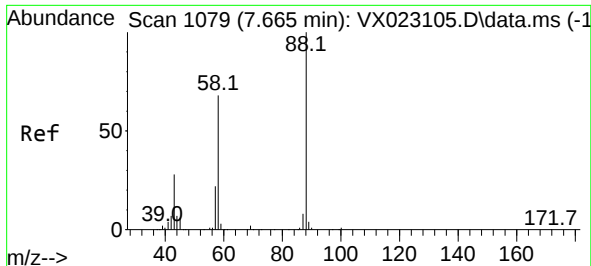
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 32899 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 19.5  | 18.2  | 27.4  |
| 87       | 14.2  | 12.5  | 18.7  |



#48  
Methyl methacrylate  
Concen: 61.362 ug/l  
RT: 7.805 min Scan# 1102  
Delta R.T. 0.103 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 169195 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 69       | 0.2   | 76.0  | 114.0# |
| 39       | 53.3  | 44.6  | 67.0   |

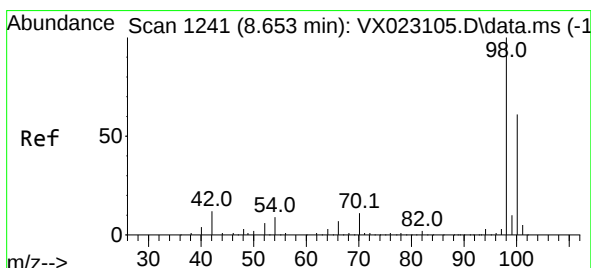
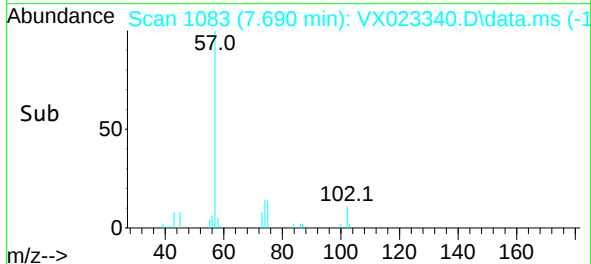
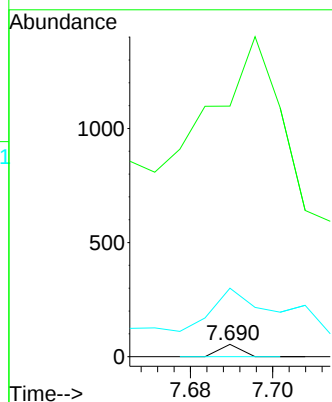
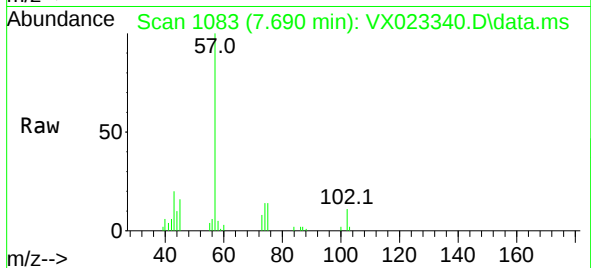




#49  
1,4-Dioxane  
Concen: 0.322 ug/l  
RT: 7.690 min Scan# 1083  
Delta R.T. 0.025 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

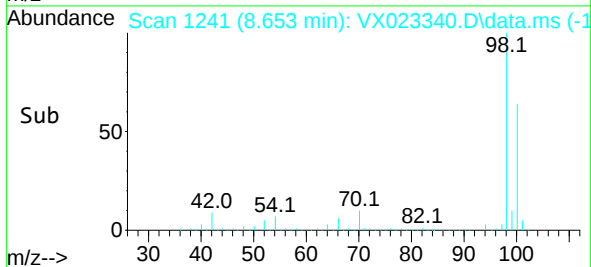
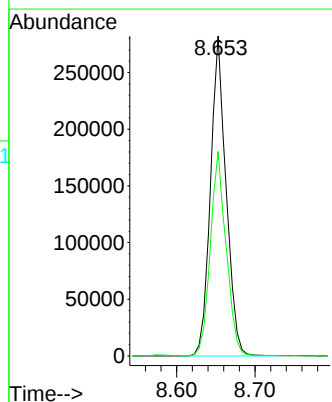
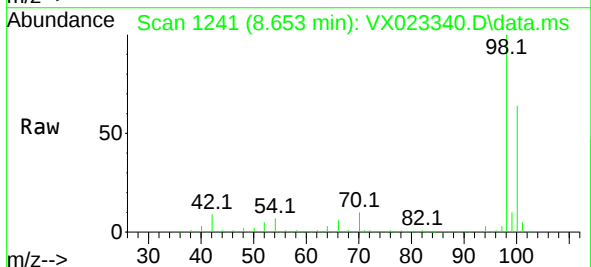
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB137749ZHE#04

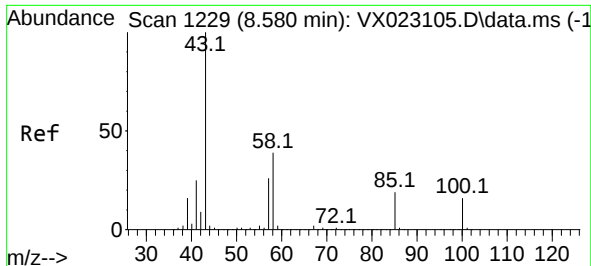
Tgt Ion: 88 Resp: 20  
Ion Ratio Lower Upper  
88 100  
43 0.0 23.2 34.8#  
58 2525.0 55.0 82.4#



#50  
Toluene-d8  
Concen: 46.589 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

Tgt Ion: 98 Resp: 389851  
Ion Ratio Lower Upper  
98 100  
100 65.0 51.9 77.9

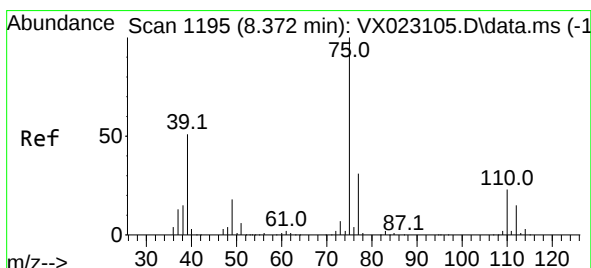
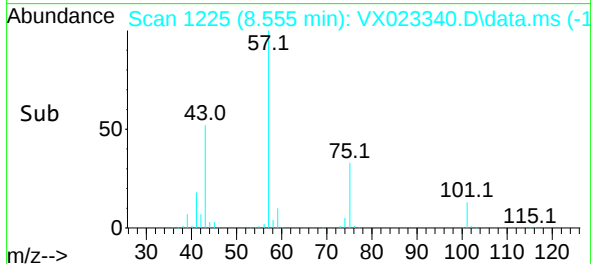
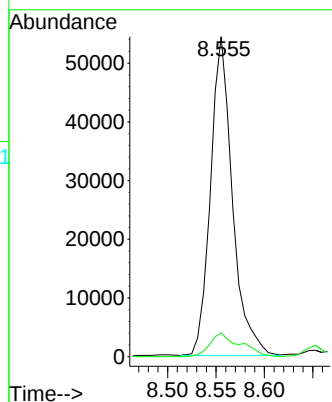
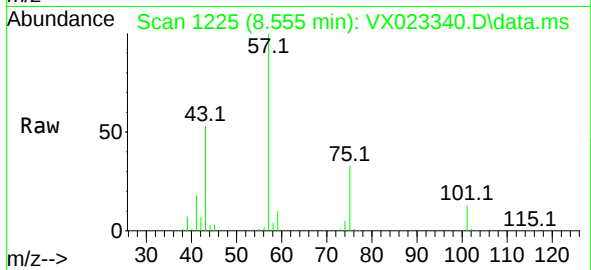




#51  
4-Methyl-2-Pentanone  
Concen: 24.571 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. -0.025 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

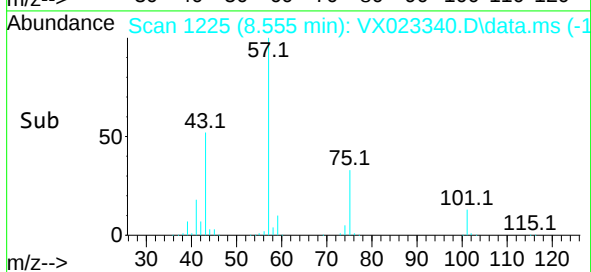
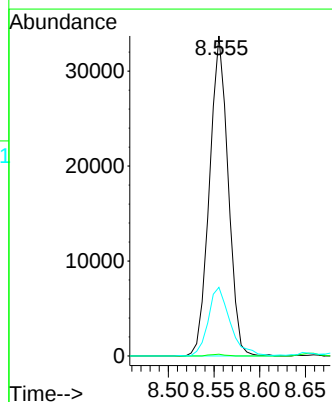
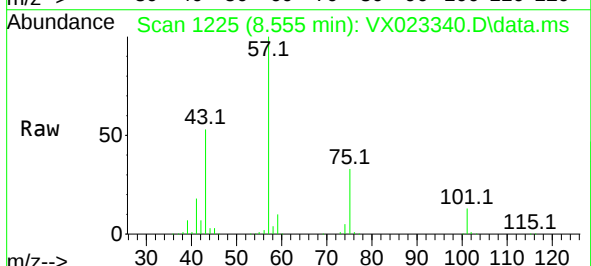
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB137749ZHE#04

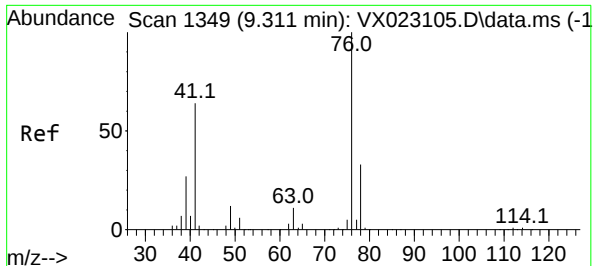
Tgt Ion: 43 Resp: 85559  
Ion Ratio Lower Upper  
43 100  
58 10.2 35.4 53.0#



#54  
cis-1,3-Dichloropropene  
Concen: 13.519 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. 0.183 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

Tgt Ion: 75 Resp: 47780  
Ion Ratio Lower Upper  
75 100  
77 0.5 25.7 38.5#  
39 21.3 35.1 52.7#



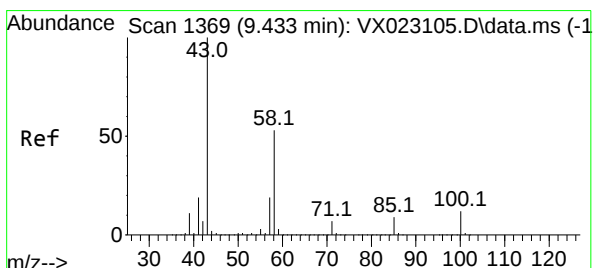
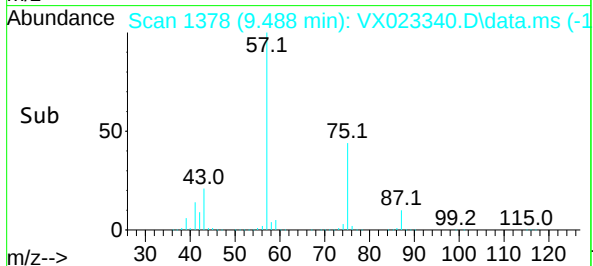
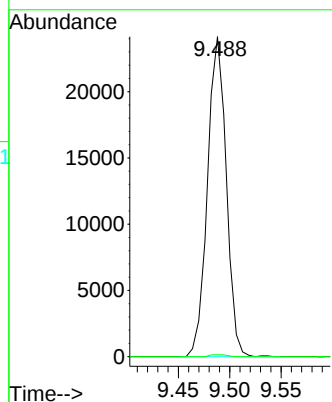
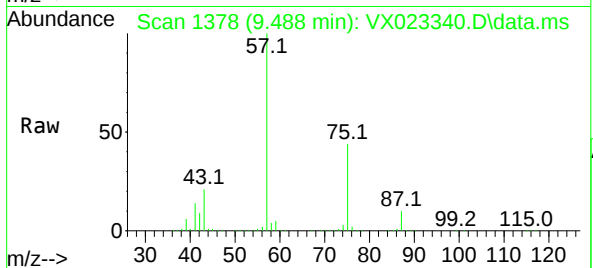


#57

1,3-Dichloropropane  
Concen: 7.618 ug/l  
RT: 9.488 min Scan# 1378  
Delta R.T. 0.177 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB137749ZHE#04

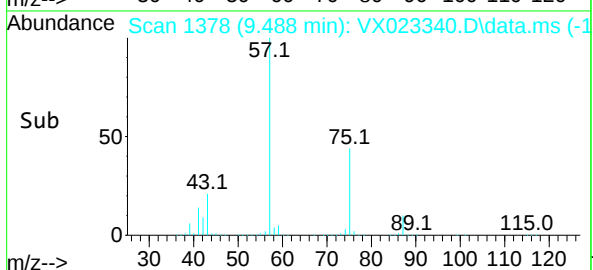
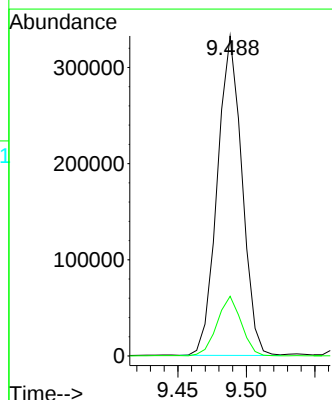
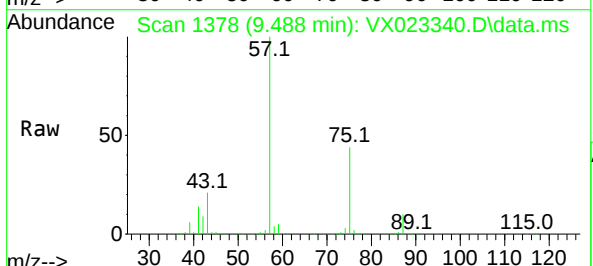
Tgt Ion: 76 Resp: 30766  
Ion Ratio Lower Upper  
76 100  
78 0.5 26.2 39.2#

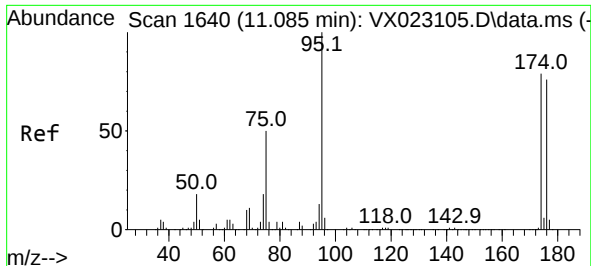


#59

2-Hexanone  
Concen: 155.513 ug/l  
RT: 9.488 min Scan# 1378  
Delta R.T. 0.055 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

Tgt Ion: 43 Resp: 415480  
Ion Ratio Lower Upper  
43 100  
58 18.3 30.9 92.8#

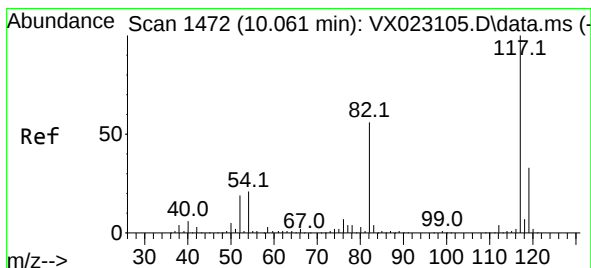
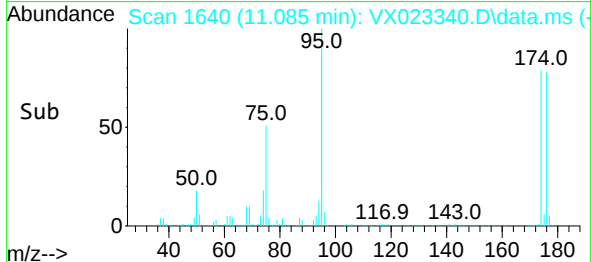
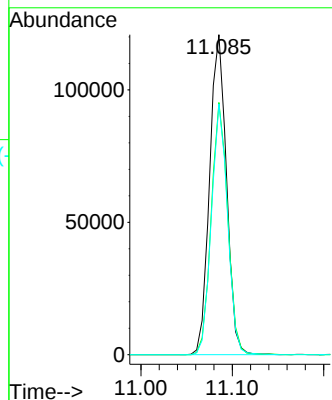
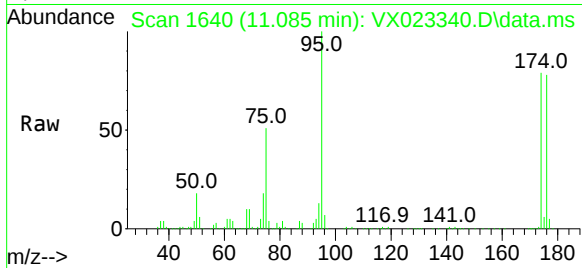




#62  
4-Bromofluorobenzene  
Concen: 47.809 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

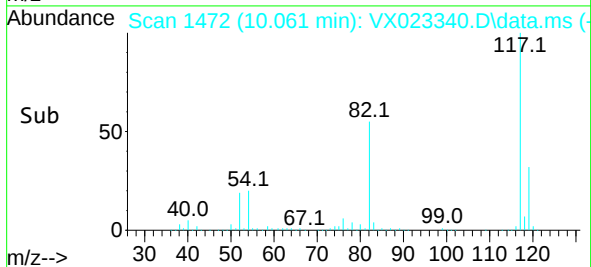
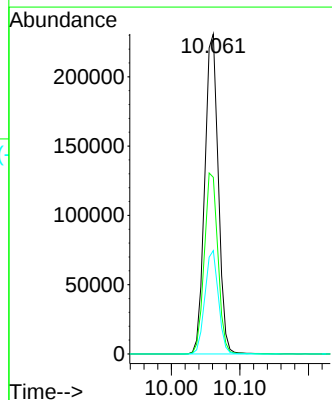
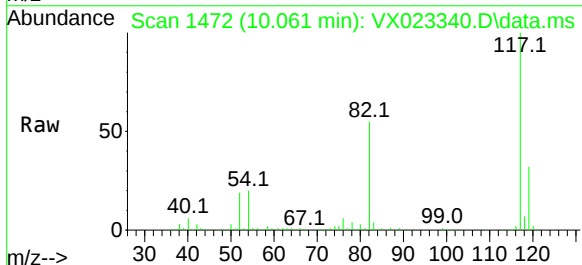
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB137749ZHE#04

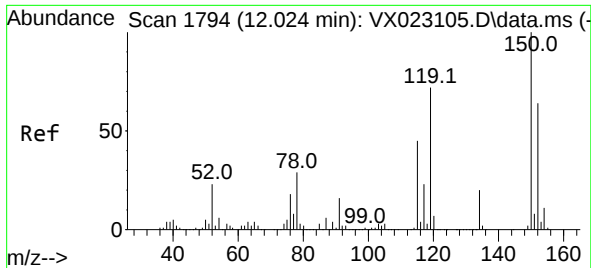
Tgt Ion: 95 Resp: 154447  
Ion Ratio Lower Upper  
95 100  
174 77.1 0.0 154.6  
176 75.0 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.061 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

Tgt Ion: 117 Resp: 317571  
Ion Ratio Lower Upper  
117 100  
82 55.2 47.4 71.2  
119 32.3 26.6 39.8

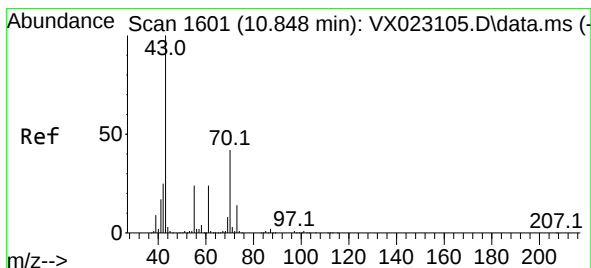
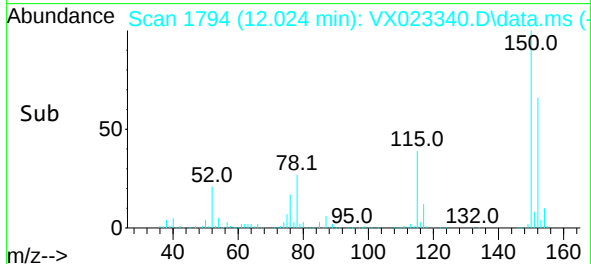
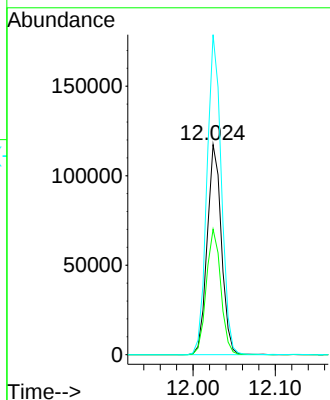
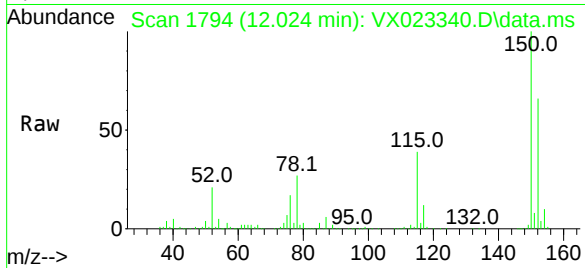




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

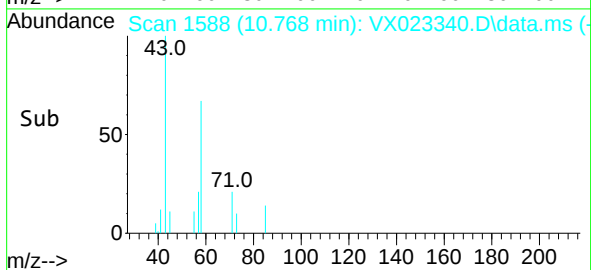
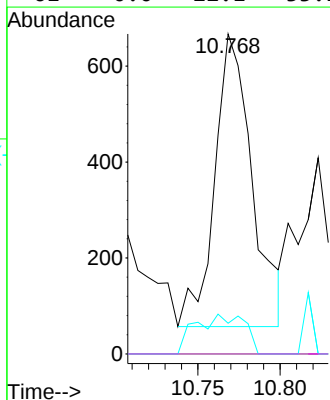
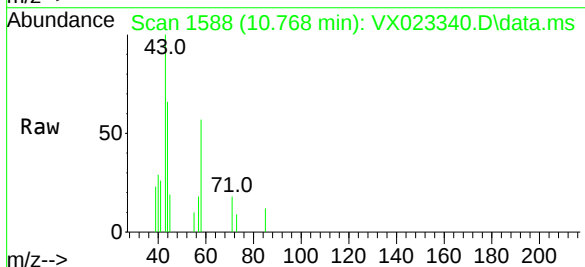
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB137749ZHE#04

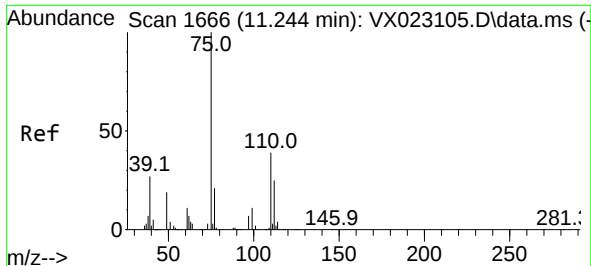
Tgt Ion:152 Resp: 141053  
Ion Ratio Lower Upper  
152 100  
115 60.6 41.1 123.3  
150 153.8 0.0 349.0



#74  
N-ethyl acetate  
Concen: 0.229 ug/l  
RT: 10.768 min Scan# 1588  
Delta R.T. -0.080 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

Tgt Ion: 43 Resp: 964  
Ion Ratio Lower Upper  
43 100  
70 0.0 39.0 58.6#  
55 17.8 21.5 32.3#  
61 0.0 22.1 33.1#

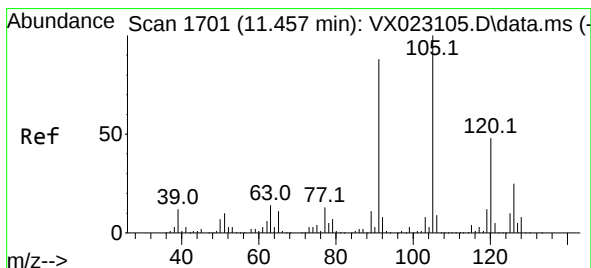
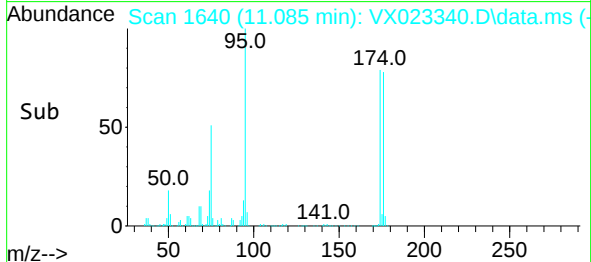
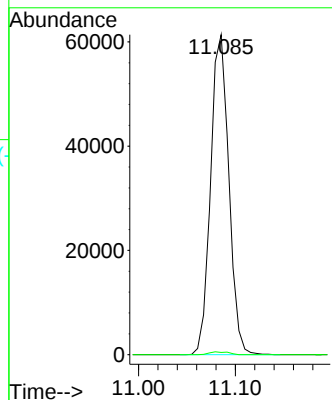
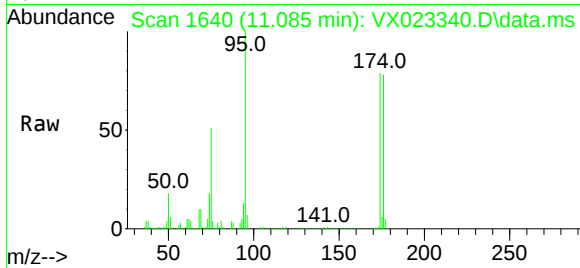




#76  
1,2,3-Trichloropropane  
Concen: 28.325 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

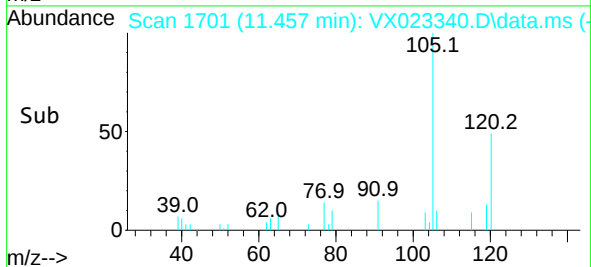
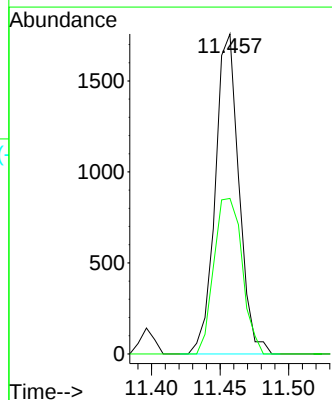
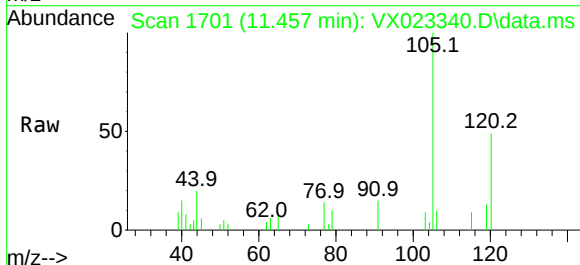
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB137749ZHE#04

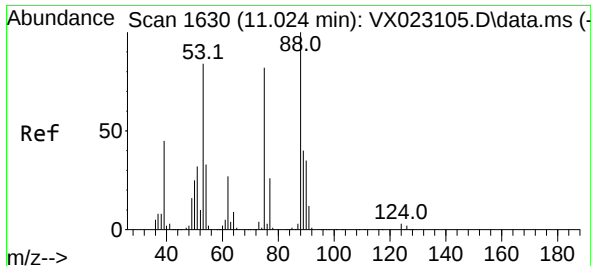
Tgt Ion: 75 Resp: 80399  
Ion Ratio Lower Upper  
75 100  
77 0.9 19.1 57.5#



#80  
1,3,5-Trimethylbenzene  
Concen: 0.247 ug/l  
RT: 11.457 min Scan# 1701  
Delta R.T. 0.000 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

Tgt Ion: 105 Resp: 2115  
Ion Ratio Lower Upper  
105 100  
120 57.8 23.8 71.5

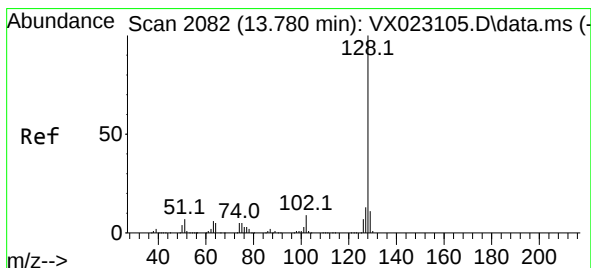
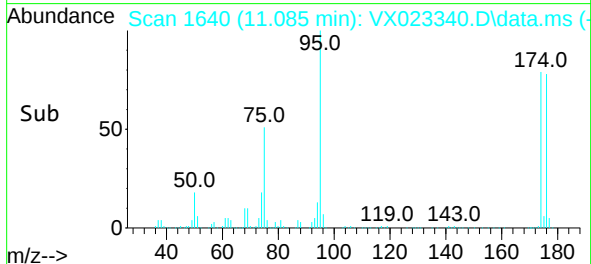
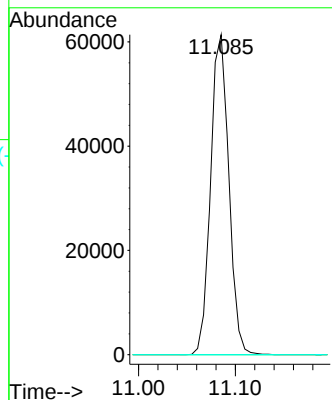
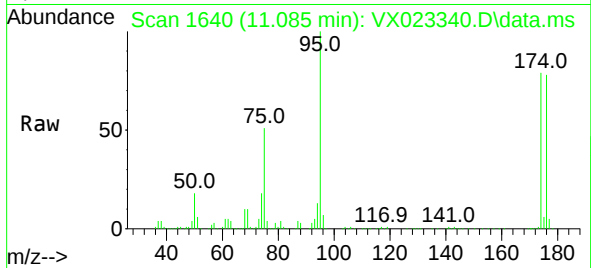




#81  
trans-1,4-Dichloro-2-butene  
Concen: 76.319 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.061 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB137749ZHE#04

Tgt Ion: 75 Resp: 80399  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#



#95  
Naphthalene  
Concen: 1.302 ug/l  
RT: 13.786 min Scan# 2083  
Delta R.T. 0.006 min  
Lab File: VX023340.D  
Acq: 19 Jul 2021 14:31

Tgt Ion: 128 Resp: 280  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.8 13.2#

