

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX032121\  
 Data File : VX021327.D  
 Acq On : 20 Mar 2021 05:29  
 Operator : JC/MD  
 Sample : M1735-05  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE134D4-20210315

Quant Time: Mar 20 07:56:00 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X031621W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 16 14:00:21 2021  
 Response via : Initial Calibration

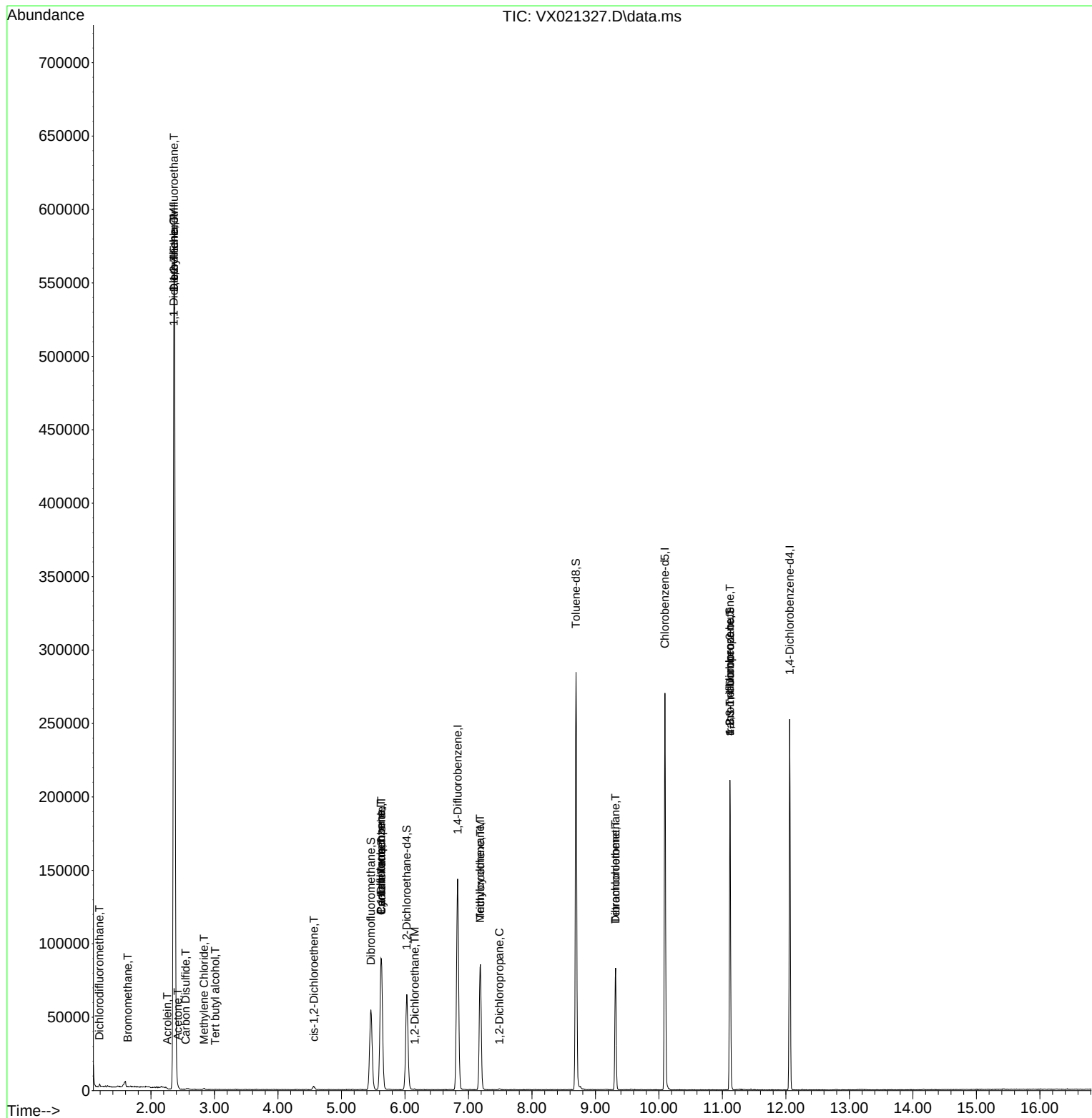
| Compound                      | R.T.           | QIon | Response   | Conc      | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|-------|----------|
| -----                         |                |      |            |           |       |          |
| Internal Standards            |                |      |            |           |       |          |
| 1) Pentafluorobenzene         | 5.623          | 168  | 77475      | 50.00     | ug/l  | #-0.01   |
| 34) 1,4-Difluorobenzene       | 6.829          | 114  | 131270     | 50.00     | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.094         | 117  | 109729     | 50.00     | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.059         | 152  | 44561      | 50.00     | ug/l  | 0.00     |
|                               |                |      |            |           |       |          |
| System Monitoring Compounds   |                |      |            |           |       |          |
| 33) 1,2-Dichloroethane-d4     | 6.029          | 65   | 63096      | 49.65     | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 99.30%    |       |          |
| 35) Dibromofluoromethane      | 5.464          | 113  | 44250      | 49.54     | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 99.08%    |       |          |
| 50) Toluene-d8                | 8.694          | 98   | 156880     | 48.41     | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 96.82%    |       |          |
| 62) 4-Bromofluorobenzene      | 11.118         | 95   | 53982      | 42.89     | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 85.78%    |       |          |
|                               |                |      |            |           |       |          |
| Target Compounds              |                |      |            |           |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.187          | 85   | 275        | 0.30      | ug/l  | # 62     |
| 3) Chloromethane              | 1.317          | 50   | 1721       | Below Cal |       | # 86     |
| 5) Bromomethane               | 1.634          | 94   | 118        | 0.29      | ug/l  | 82       |
| 8) Diethyl Ether              | 2.364          | 74   | 244        | 0.49      | ug/l  | # 29     |
| 9) 1,1,2-Trichlorotrifluo...  | 2.364          | 101  | 235517     | 290.88    | ug/l  | 95       |
| 11) Tert butyl alcohol        | 3.011          | 59   | 44         | 0.21      | ug/l  | # 73     |
| 12) 1,1-Dichloroethene        | 2.358          | 96   | 1783       | 2.26      | ug/l  | 89       |
| 13) Acrolein                  | 2.258          | 56   | 20         | 3.28      | ug/l  | # 1      |
| 16) Acetone                   | 2.423          | 43   | 1084       | 2.32      | ug/l  | # 70     |
| 17) Carbon Disulfide          | 2.546          | 76   | 279        | 0.66      | ug/l  | # 75     |
| 20) Methylene Chloride        | 2.834          | 84   | 295        | 0.31      | ug/l  | # 81     |
| 27) cis-1,2-Dichloroethene    | 4.564          | 96   | 1197       | 1.18      | ug/l  | 90       |
| 31) Cyclohexane               | 5.629          | 56   | 2188       | 1.42      | ug/l  | # 42     |
| 36) 1,1-Dichloropropene       | 5.623          | 75   | 7146       | 5.40      | ug/l  | # 50     |
| 38) Carbon Tetrachloride      | 5.629          | 117  | 8974       | 6.53      | ug/l  | # 16     |
| 39) Methylcyclohexane         | 7.182          | 83   | 436        | 0.30      | ug/l  | # 1      |
| 42) 1,2-Dichloroethane        | 6.152          | 62   | 367        | 0.23      | ug/l  | # 73     |
| 44) Trichloroethene           | 7.188          | 130  | 29689      | 30.66     | ug/l  | 90       |
| 45) 1,2-Dichloropropane       | 7.488          | 63   | 331        | 0.34      | ug/l  | # 43     |
| 49) 1,4-Dioxane               | 7.711          | 88   | 157        | Below Cal |       | # 77     |
| 60) Dibromochloromethane      | 9.318          | 129  | 14078      | 13.40     | ug/l  | # 11     |
| 64) Tetrachloroethene         | 9.318          | 164  | 13992      | 17.07     | ug/l  | 95       |
| 76) 1,2,3-Trichloropropane    | 11.118         | 75   | 29903      | 28.93     | ug/l  | # 39     |
| 81) trans-1,4-Dichloro-2-b... | 11.118         | 75   | 29903      | 78.54     | ug/l  | # 12     |
| -----                         |                |      |            |           |       |          |

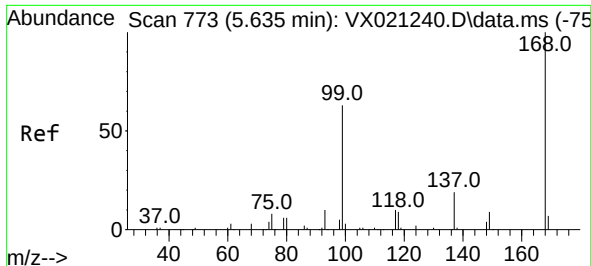
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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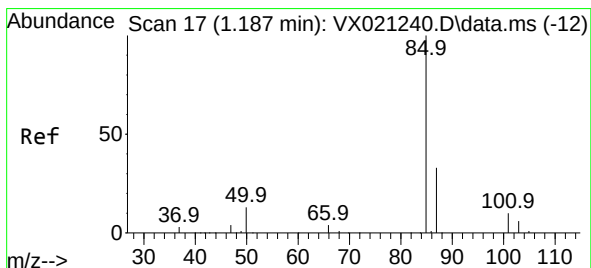
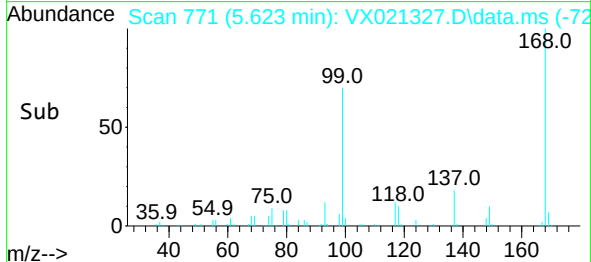
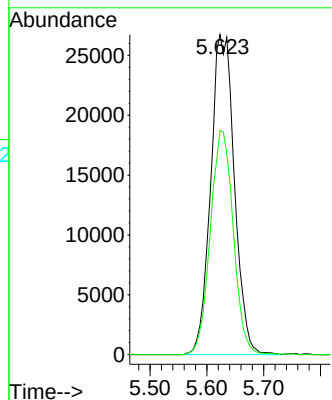
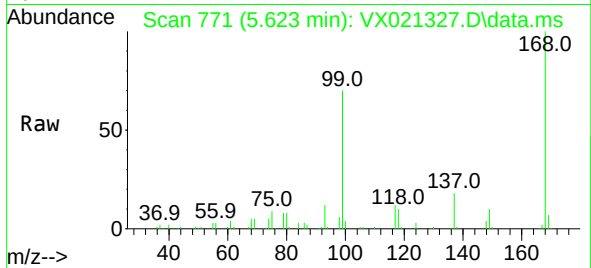




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.623 min Scan# 771  
Delta R.T. -0.012 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

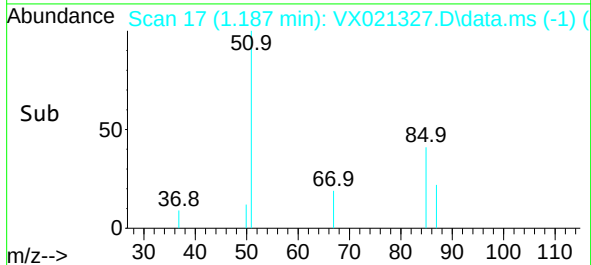
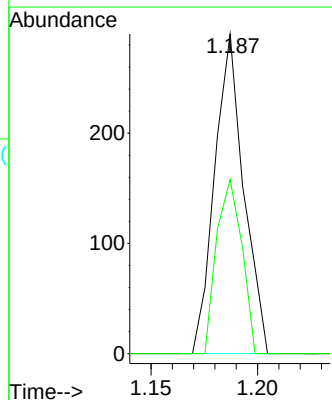
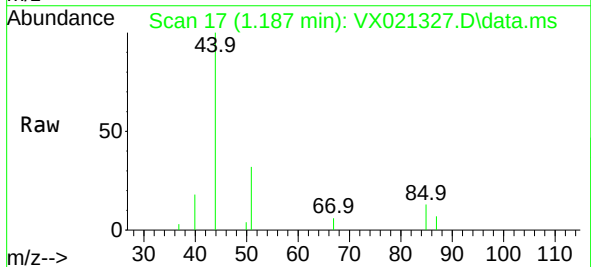
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE134D4-20210315

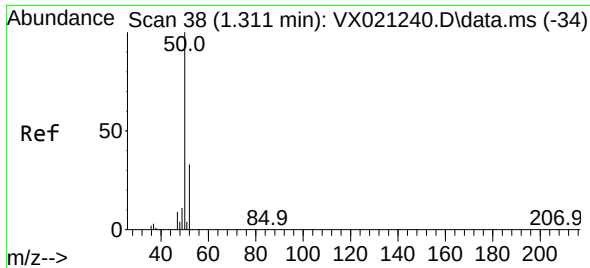
Tgt Ion:168 Resp: 77475  
Ion Ratio Lower Upper  
168 100  
99 70.1 45.8 68.6#



#2  
Dichlorodifluoromethane  
Concen: 0.30 ug/l  
RT: 1.187 min Scan# 17  
Delta R.T. 0.000 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

Tgt Ion: 85 Resp: 275  
Ion Ratio Lower Upper  
85 100  
87 54.5 16.4 49.2#

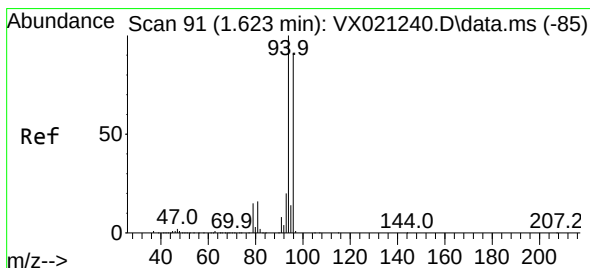
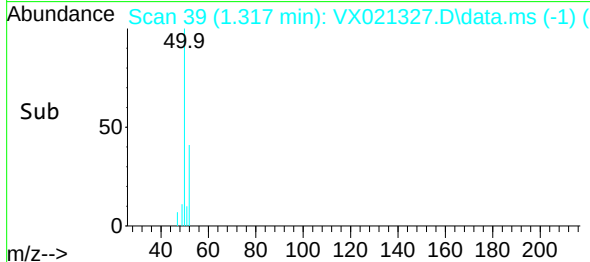
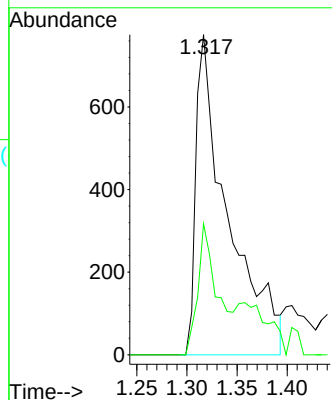
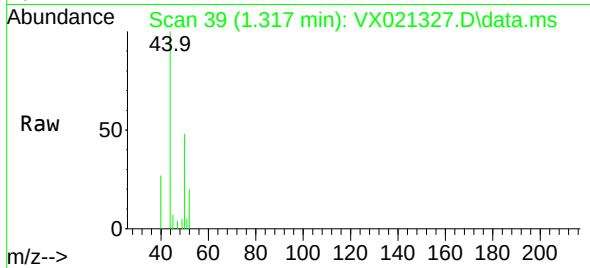




#3  
Chloromethane  
Concen: Below Cal  
RT: 1.317 min Scan# 39  
Delta R.T. 0.006 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

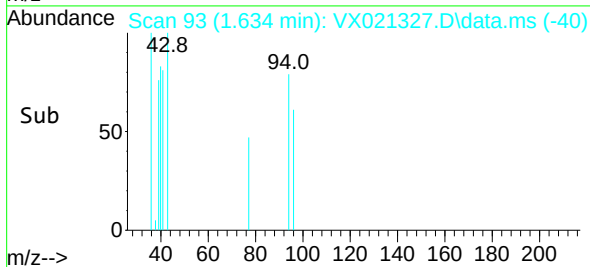
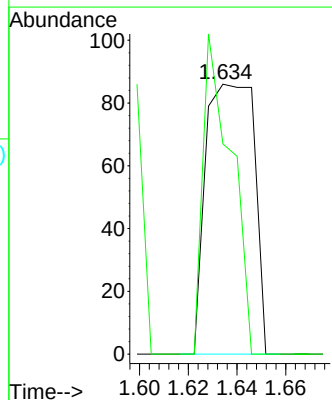
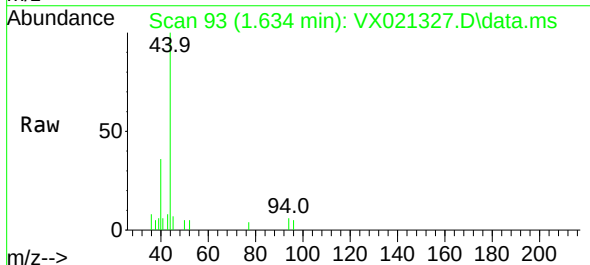
Instrument :  
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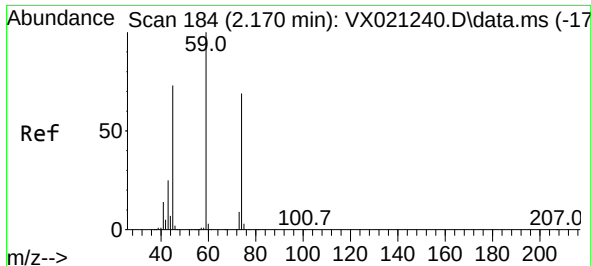
Tgt Ion: 50 Resp: 1721  
Ion Ratio Lower Upper  
50 100  
52 40.9 26.4 39.6#



#5  
Bromomethane  
Concen: 0.29 ug/l  
RT: 1.634 min Scan# 93  
Delta R.T. 0.011 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

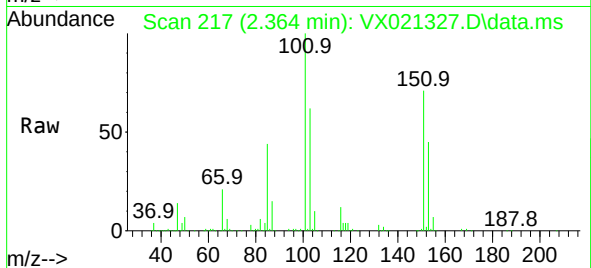
Tgt Ion: 94 Resp: 118  
Ion Ratio Lower Upper  
94 100  
96 77.9 76.4 114.6



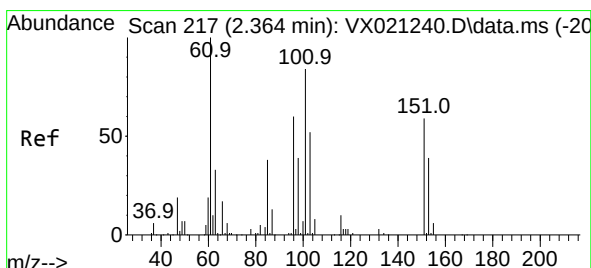
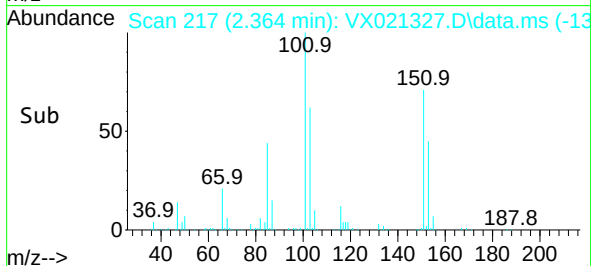
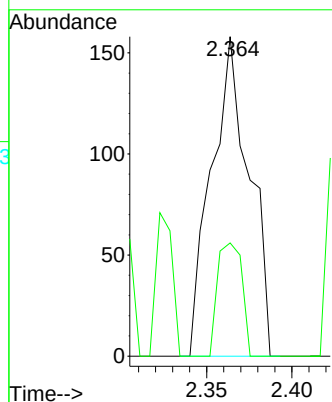


#8  
Diethyl Ether  
Concen: 0.49 ug/l  
RT: 2.364 min Scan# 217  
Delta R.T. 0.194 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

Instrument :  
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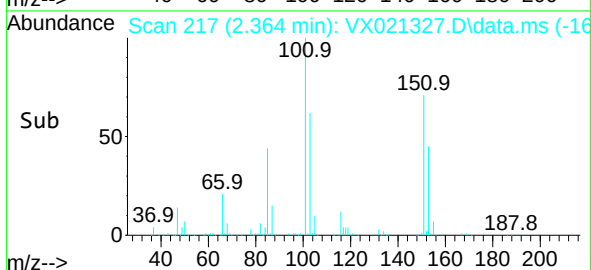
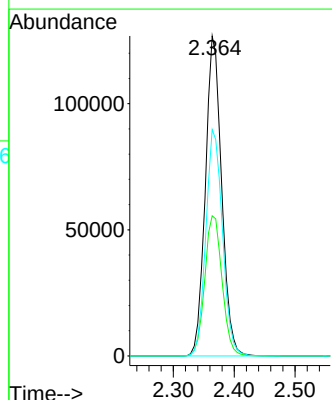
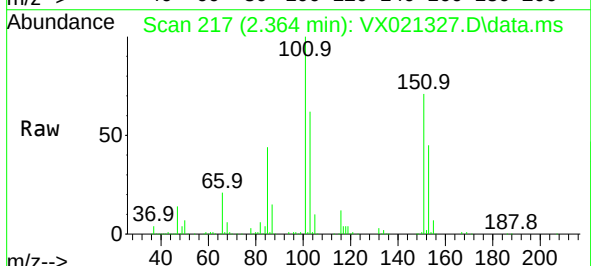


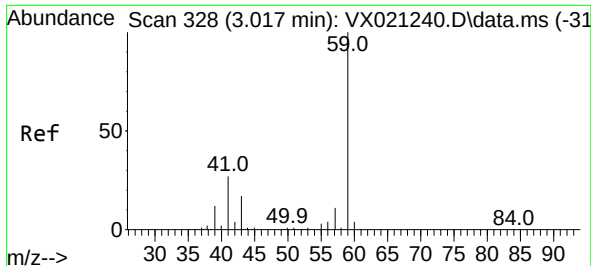
Tgt Ion: 74 Resp: 244  
Ion Ratio Lower Upper  
74 100  
45 23.0 44.5 133.5#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 290.88 ug/l  
RT: 2.364 min Scan# 217  
Delta R.T. -0.000 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

Tgt Ion: 101 Resp: 235517  
Ion Ratio Lower Upper  
101 100  
85 46.6 34.9 52.3  
151 72.6 61.4 92.2



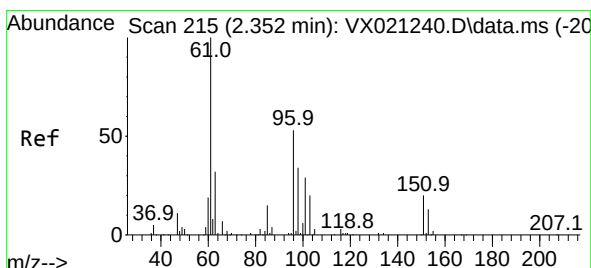
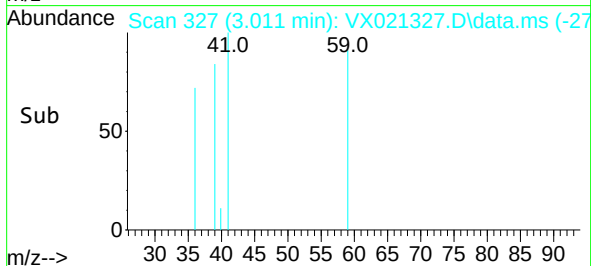
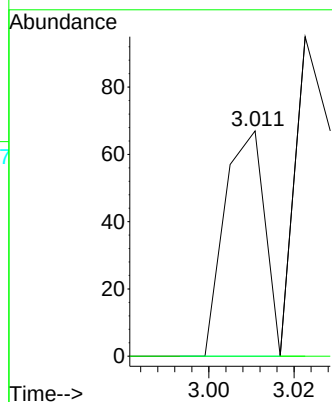
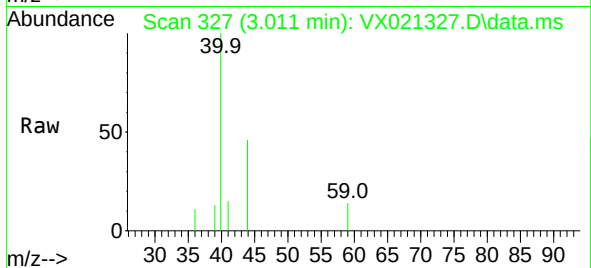


#11

Tert butyl alcohol  
Concen: 0.21 ug/l  
RT: 3.011 min Scan# 327  
Delta R.T. -0.006 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

Instrument :  
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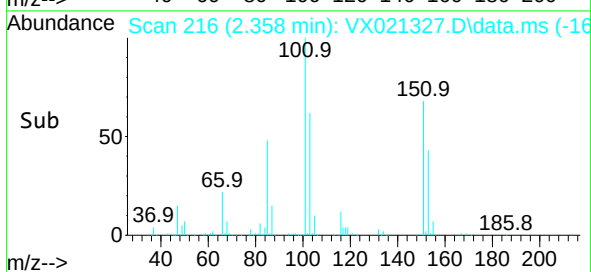
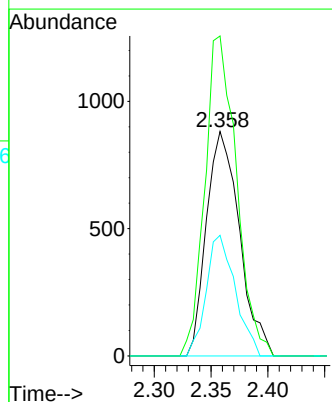
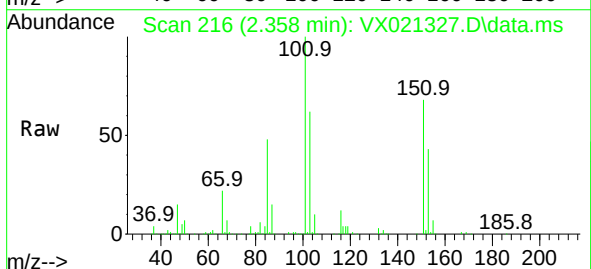
Tgt Ion: 59 Resp: 44  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

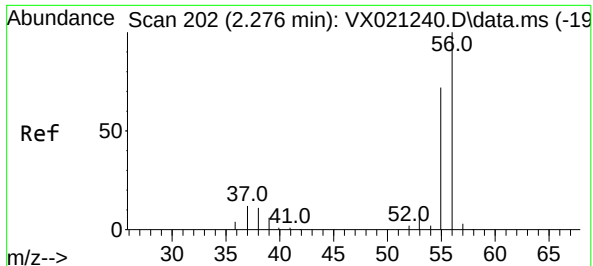


#12

1,1-Dichloroethene  
Concen: 2.26 ug/l  
RT: 2.358 min Scan# 216  
Delta R.T. 0.006 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

Tgt Ion: 96 Resp: 1783  
Ion Ratio Lower Upper  
96 100  
61 142.5 124.6 187.0  
98 53.7 50.6 76.0

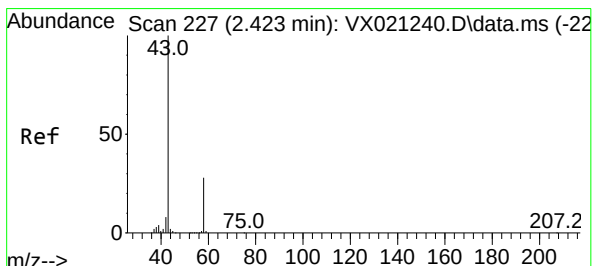
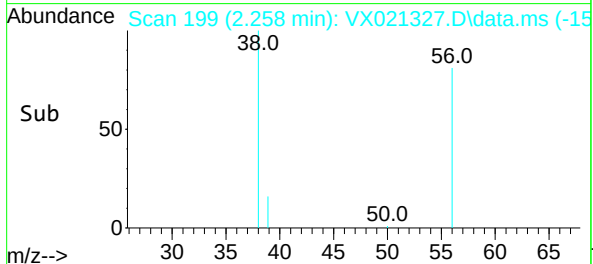
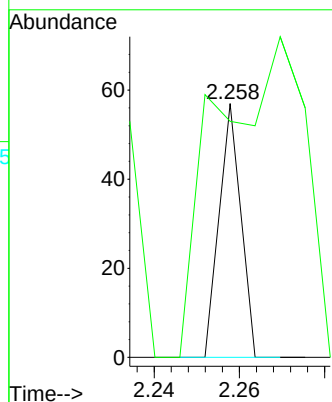
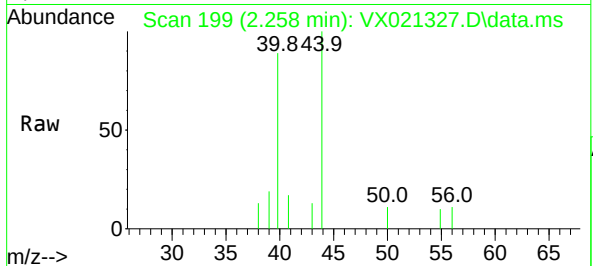




#13  
Acrolein  
Concen: 3.28 ug/l  
RT: 2.258 min Scan# 199  
Delta R.T. -0.018 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

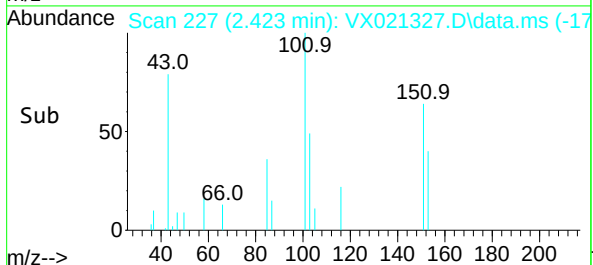
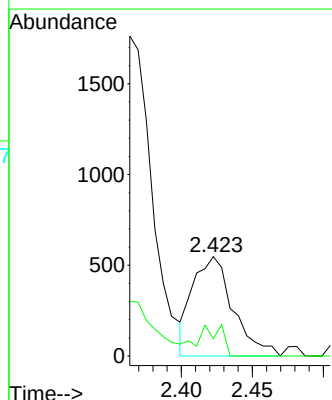
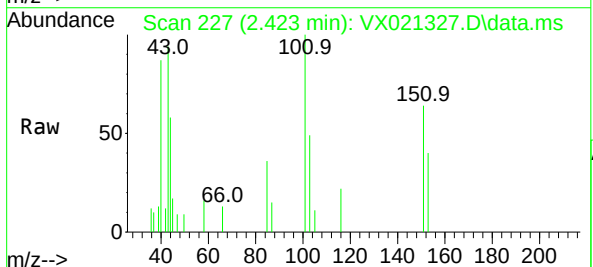
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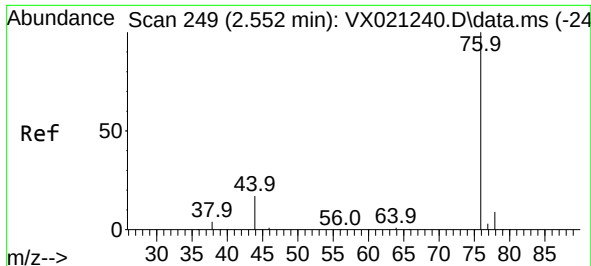
Tgt Ion: 56 Resp: 20  
Ion Ratio Lower Upper  
56 100  
55 515.0 56.4 84.6#



#16  
Acetone  
Concen: 2.32 ug/l  
RT: 2.423 min Scan# 227  
Delta R.T. -0.000 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

Tgt Ion: 43 Resp: 1084  
Ion Ratio Lower Upper  
43 100  
58 17.3 27.8 41.8#

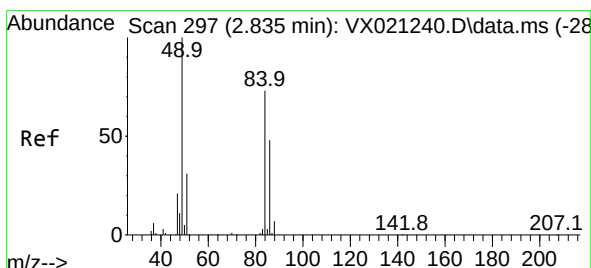
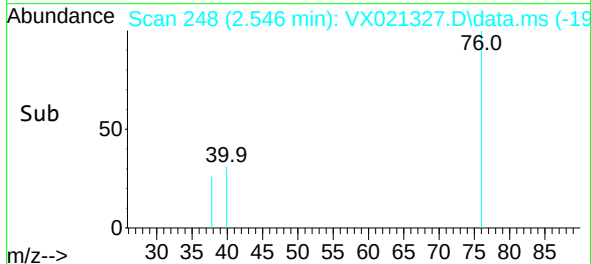
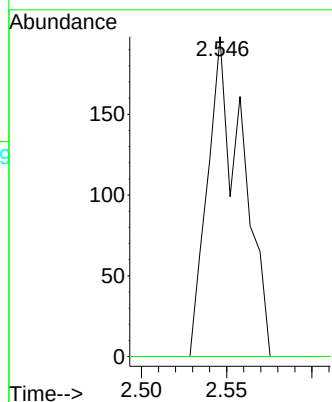
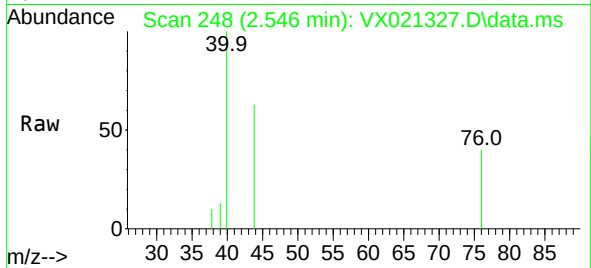




#17  
Carbon Disulfide  
Concen: 0.66 ug/l  
RT: 2.546 min Scan# 248  
Delta R.T. -0.006 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

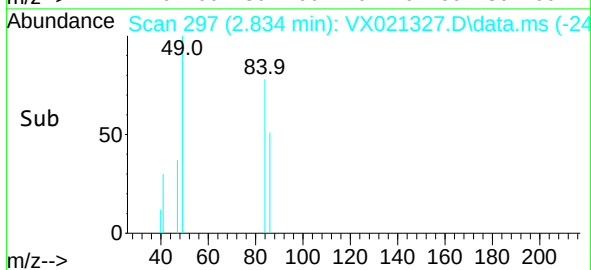
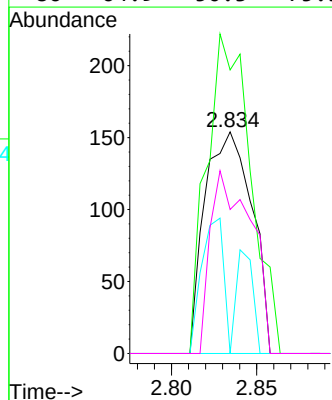
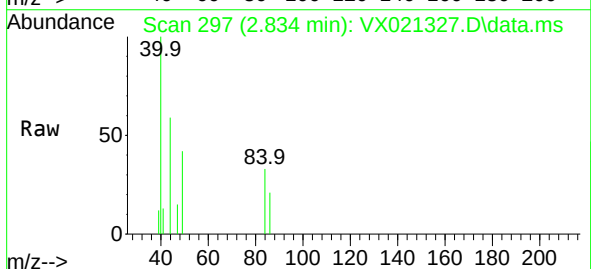
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MSVOA\_X  
ClientSampleId :  
RE134D4-20210315

Tgt Ion: 76 Resp: 279  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.2 10.8#

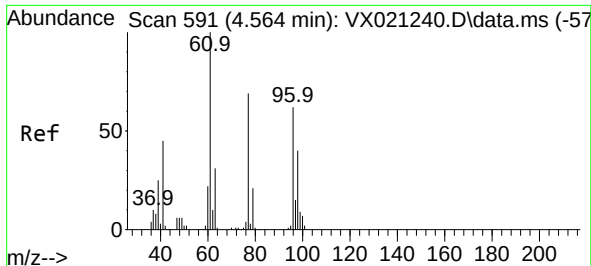


#20  
Methylene Chloride  
Concen: 0.31 ug/l  
RT: 2.834 min Scan# 297  
Delta R.T. -0.001 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

Tgt Ion: 84 Resp: 295  
Ion Ratio Lower Upper  
84 100  
49 127.9 88.6 132.8  
51 0.0 27.0 40.6#  
86 64.9 50.3 75.5







#27

cis-1,2-Dichloroethene

Concen: 1.18 ug/l

RT: 4.564 min Scan# 591

Delta R.T. -0.000 min

Lab File: VX021327.D

Acq: 20 Mar 2021 05:29

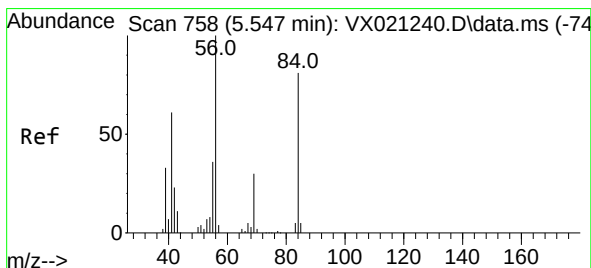
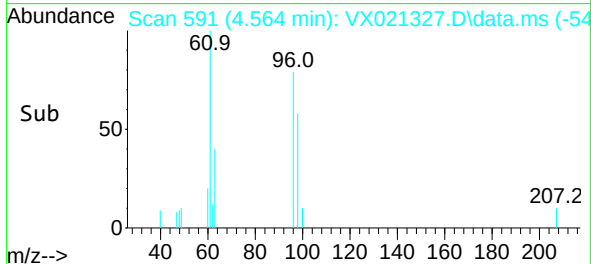
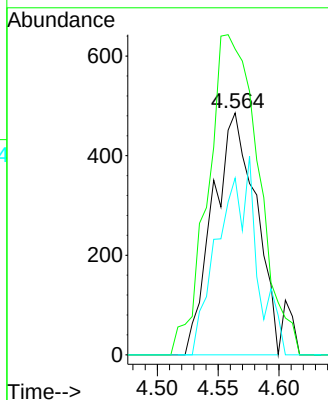
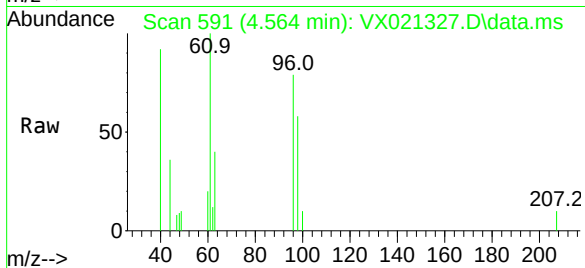
Instrument :

MSVOA\_X

ClientSampleId :

RE134D4-20210315

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 1197  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 155.8 | 0.0   | 285.6 |
| 98       | 71.3  | 0.0   | 129.6 |



#31

Cyclohexane

Concen: 1.42 ug/l

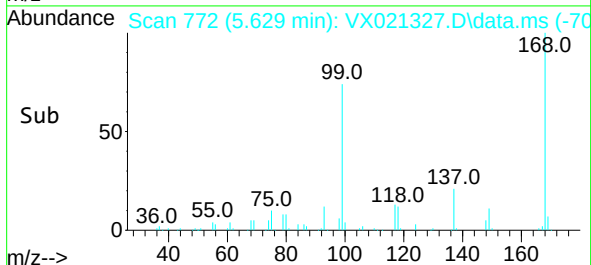
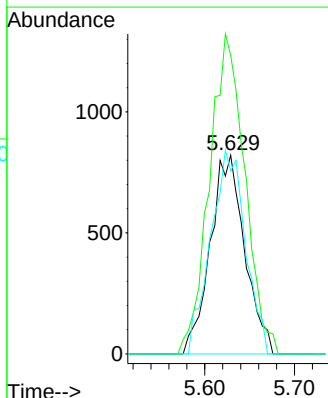
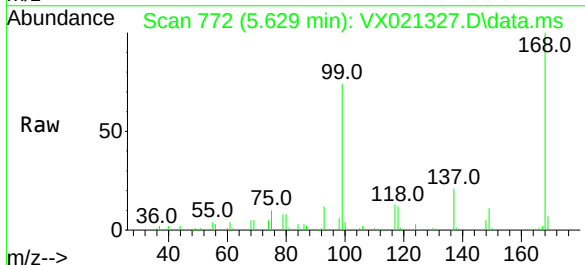
RT: 5.629 min Scan# 772

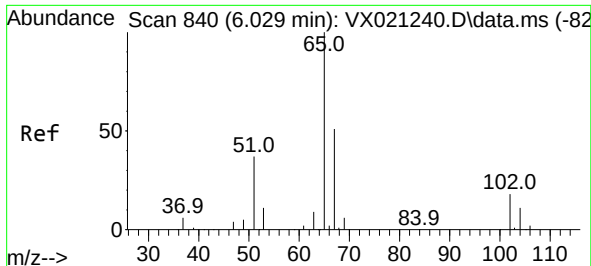
Delta R.T. 0.082 min

Lab File: VX021327.D

Acq: 20 Mar 2021 05:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 2188  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 150.3 | 25.3  | 37.9# |
| 84       | 92.1  | 71.4  | 107.0 |





#33

1,2-Dichloroethane-d4

Concen: 49.65 ug/l

RT: 6.029 min Scan# 840

Delta R.T. -0.000 min

Lab File: VX021327.D

Acq: 20 Mar 2021 05:29

Tgt Ion: 65 Resp: 63096

Ion Ratio Lower Upper

65 100

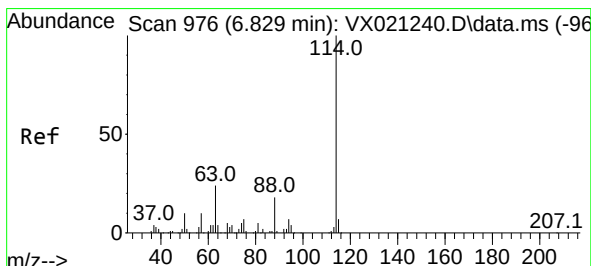
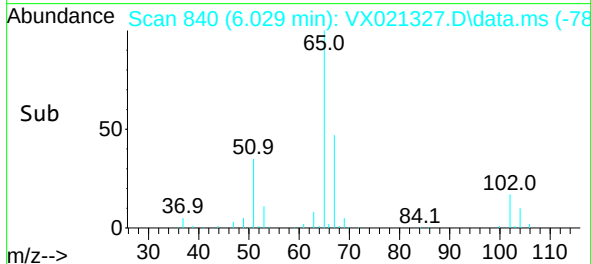
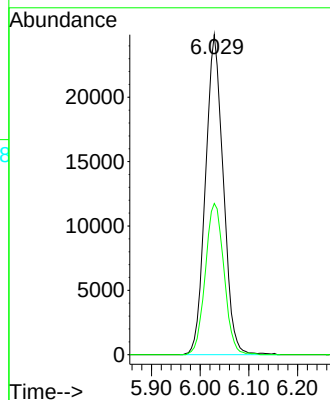
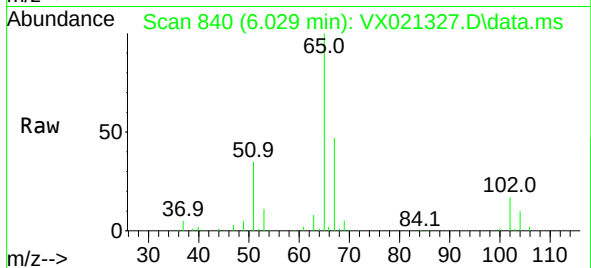
67 49.5 0.0 105.4

Instrument :

MSVOA\_X

ClientSampleId :

RE134D4-20210315



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.829 min Scan# 976

Delta R.T. -0.000 min

Lab File: VX021327.D

Acq: 20 Mar 2021 05:29

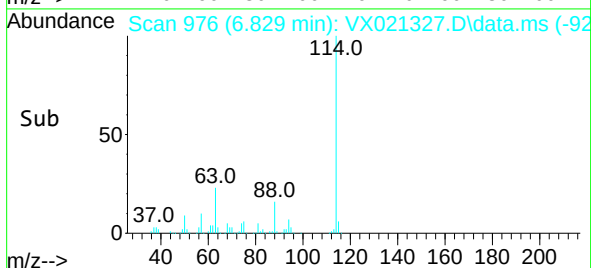
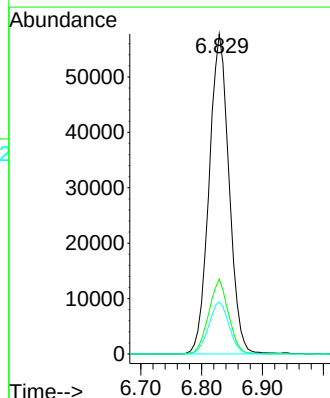
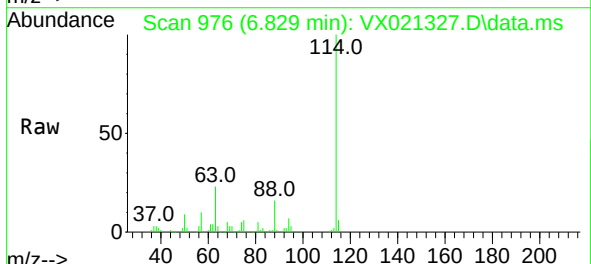
Tgt Ion: 114 Resp: 131270

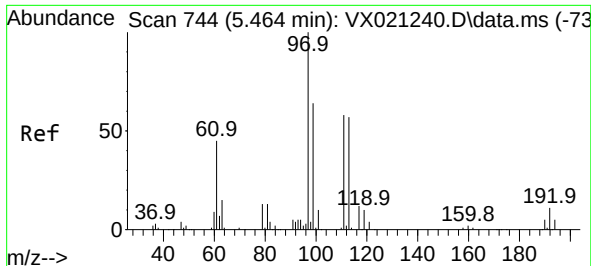
Ion Ratio Lower Upper

114 100

63 23.4 0.0 40.8

88 16.2 0.0 32.8

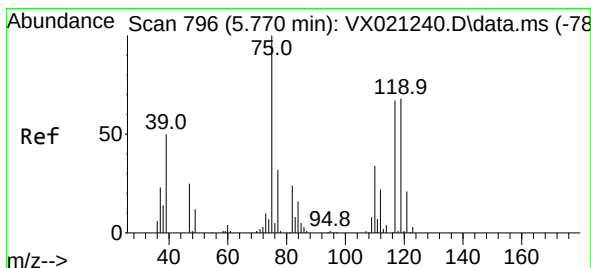
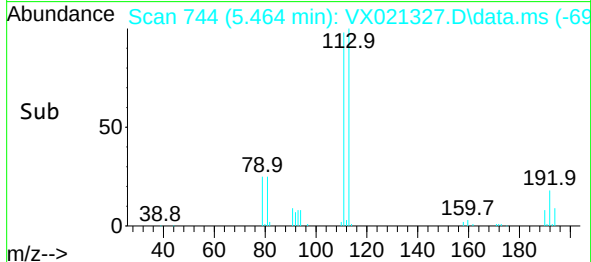
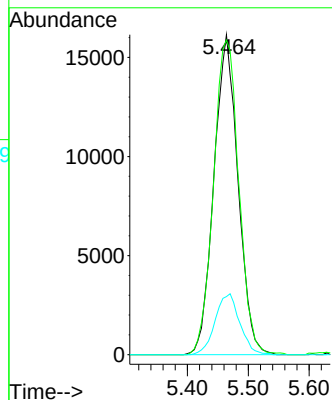
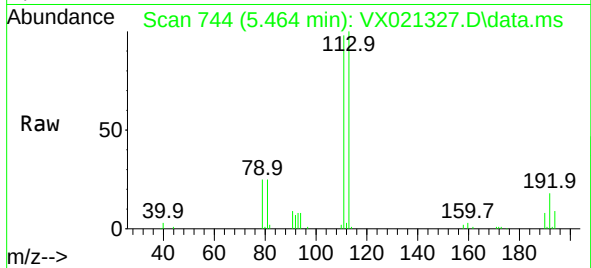




#35  
Dibromofluoromethane  
Concen: 49.54 ug/l  
RT: 5.464 min Scan# 744  
Delta R.T. 0.000 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

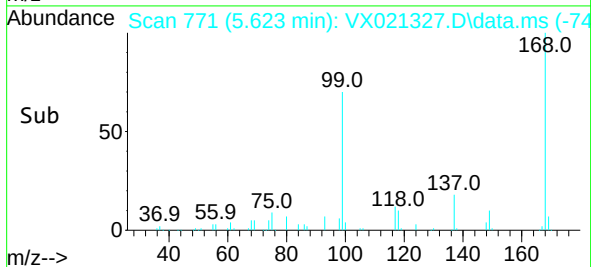
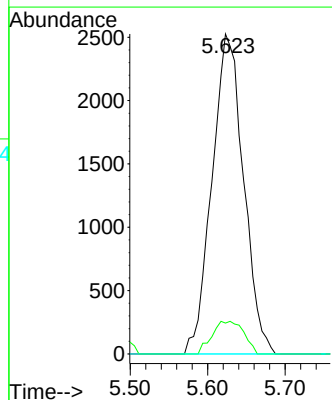
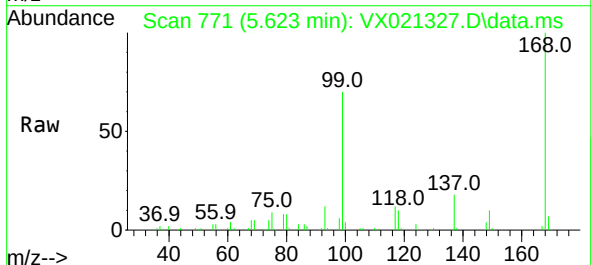
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE134D4-20210315

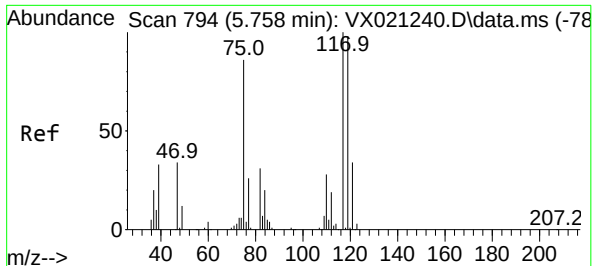
Tgt Ion:113 Resp: 44250  
Ion Ratio Lower Upper  
113 100  
111 103.7 81.9 122.9  
192 19.5 16.7 25.1



#36  
1,1-Dichloropropene  
Concen: 5.40 ug/l  
RT: 5.623 min Scan# 771  
Delta R.T. -0.147 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

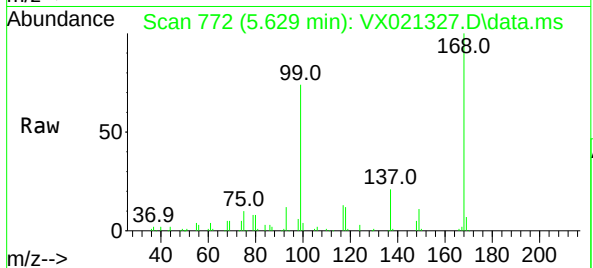
Tgt Ion: 75 Resp: 7146  
Ion Ratio Lower Upper  
75 100  
110 10.2 18.1 54.4#  
77 0.0 25.3 37.9#



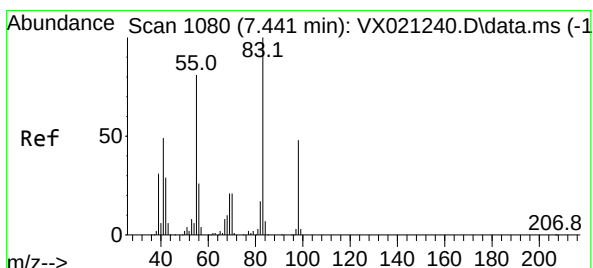
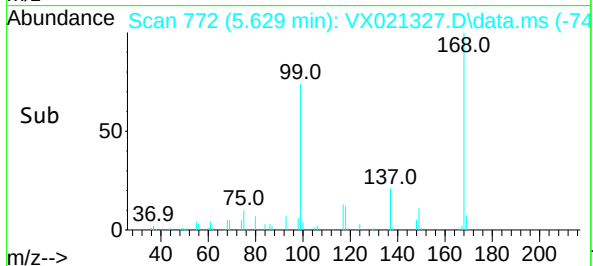
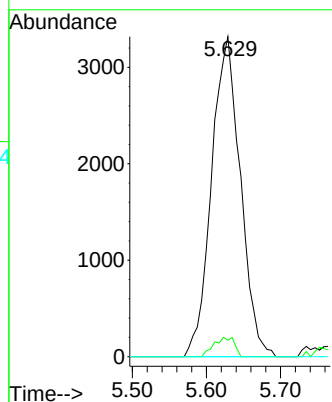


#38  
Carbon Tetrachloride  
Concen: 6.53 ug/l  
RT: 5.629 min Scan# 772  
Delta R.T. -0.129 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE134D4-20210315

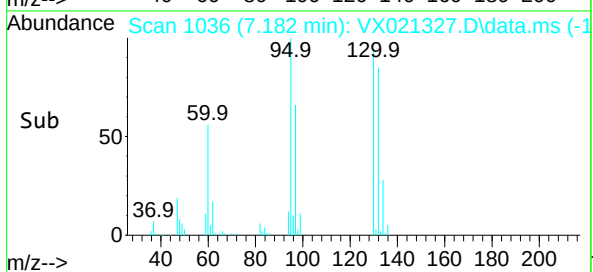
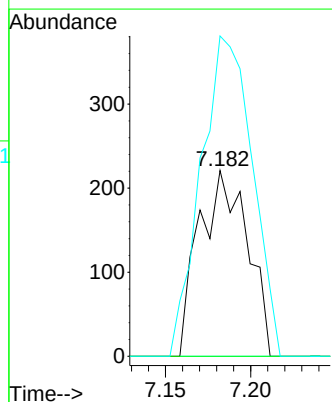
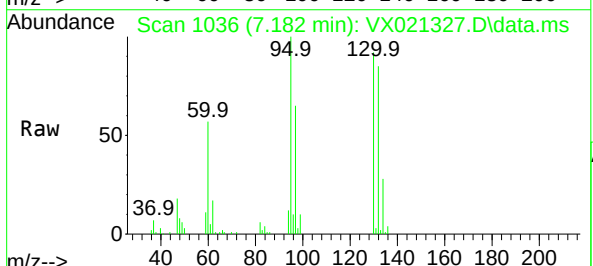


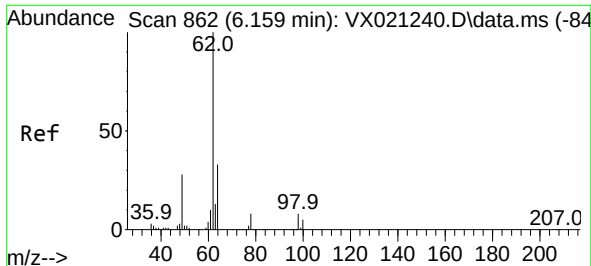
Tgt Ion:117 Resp: 8974  
Ion Ratio Lower Upper  
117 100  
119 5.2 76.2 114.2#  
121 0.0 24.8 37.2#



#39  
Methylcyclohexane  
Concen: 0.30 ug/l  
RT: 7.182 min Scan# 1036  
Delta R.T. -0.259 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

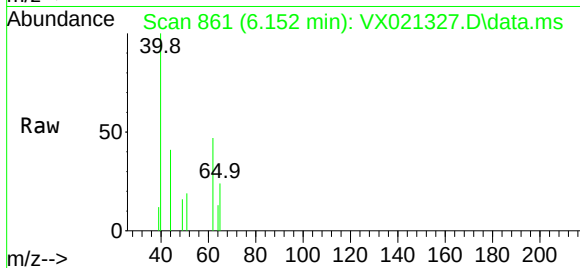
Tgt Ion: 83 Resp: 436  
Ion Ratio Lower Upper  
83 100  
55 0.0 58.9 88.3#  
98 172.4 38.1 57.1#



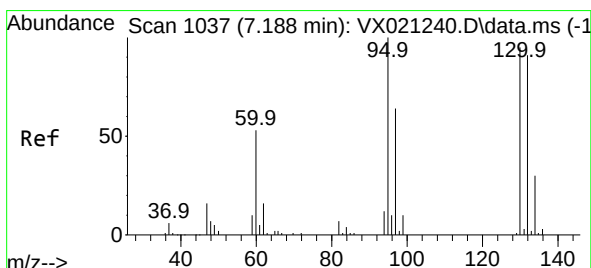
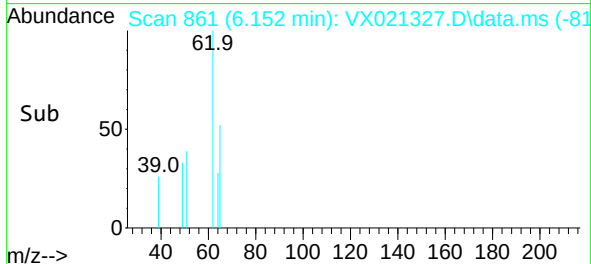
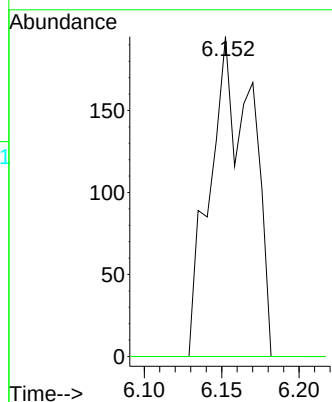


#42  
1,2-Dichloroethane  
Concen: 0.23 ug/l  
RT: 6.152 min Scan# 861  
Delta R.T. -0.007 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE134D4-20210315

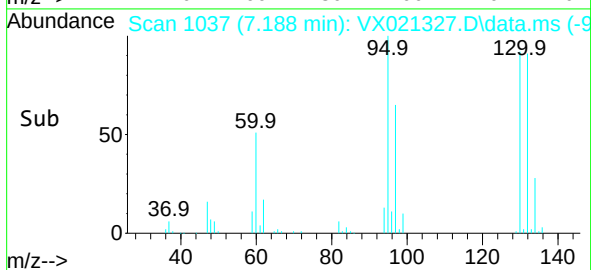
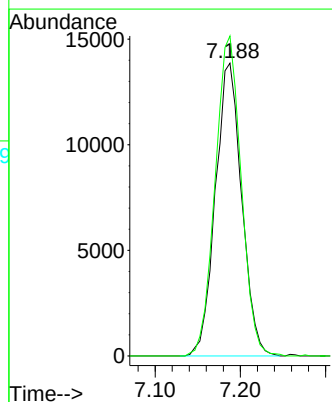
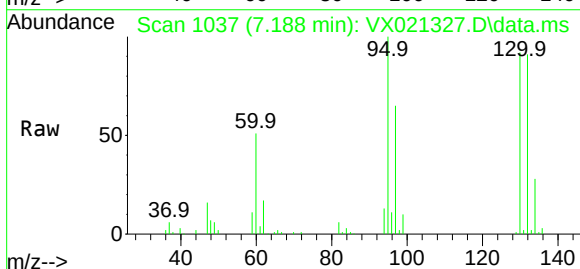


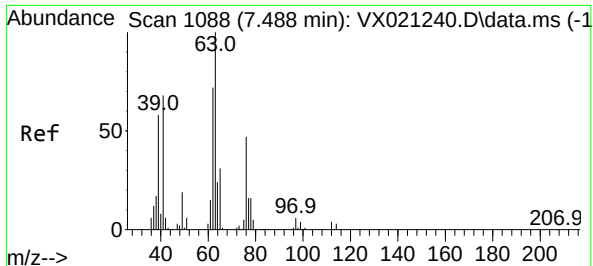
Tgt Ion: 62 Resp: 367  
Ion Ratio Lower Upper  
62 100  
98 0.0 0.0 20.2



#44  
Trichloroethene  
Concen: 30.66 ug/l  
RT: 7.188 min Scan# 1037  
Delta R.T. -0.000 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

Tgt Ion: 130 Resp: 29689  
Ion Ratio Lower Upper  
130 100  
95 109.3 0.0 198.0

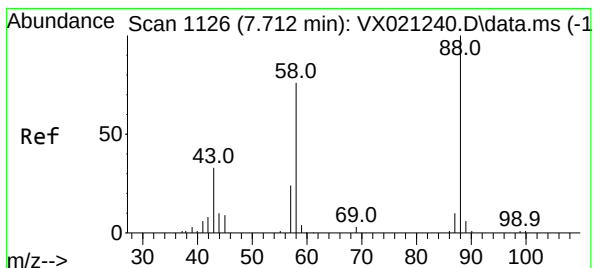
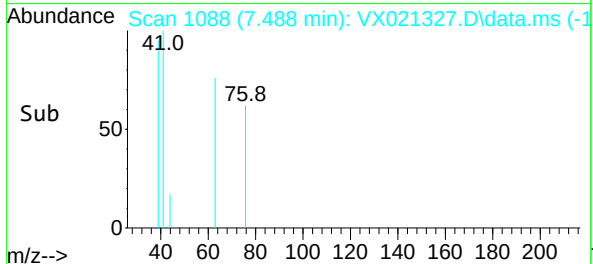
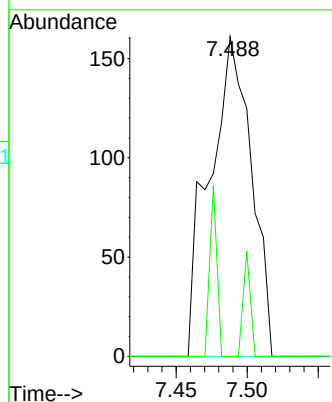
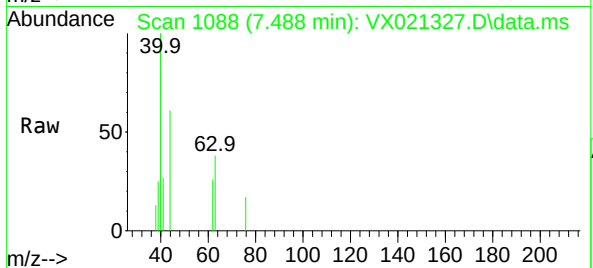




#45  
1,2-Dichloropropane  
Concen: 0.34 ug/l  
RT: 7.488 min Scan# 1088  
Delta R.T. -0.000 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

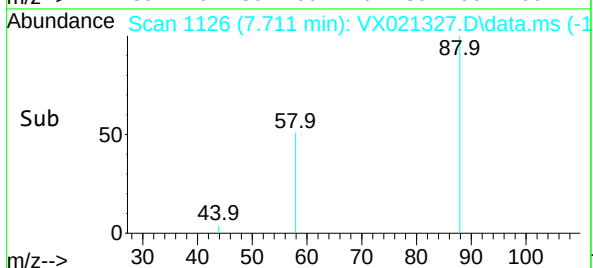
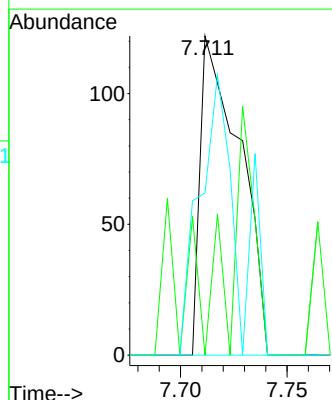
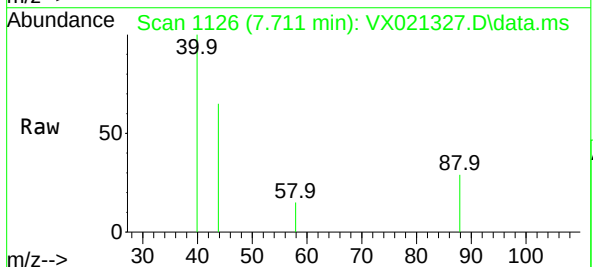
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE134D4-20210315

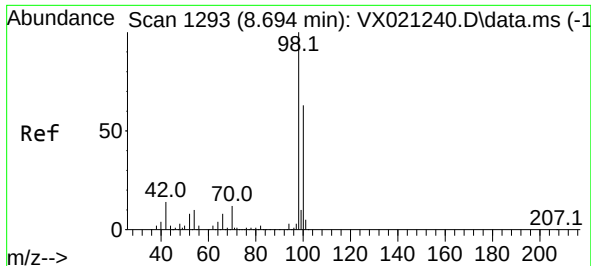
Tgt Ion: 63 Resp: 331  
Ion Ratio Lower Upper  
63 100  
65 0.0 25.7 38.5#



#49  
1,4-Dioxane  
Concen: Below Cal  
RT: 7.711 min Scan# 1126  
Delta R.T. -0.001 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

Tgt Ion: 88 Resp: 157  
Ion Ratio Lower Upper  
88 100  
43 45.2 23.2 34.8#  
58 84.7 55.0 82.4#

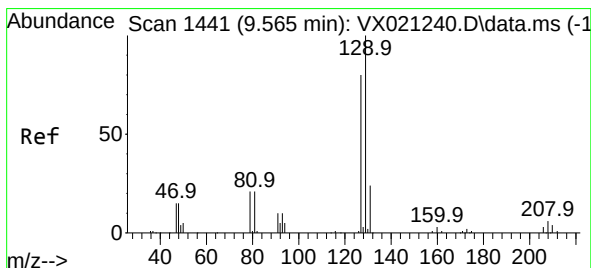
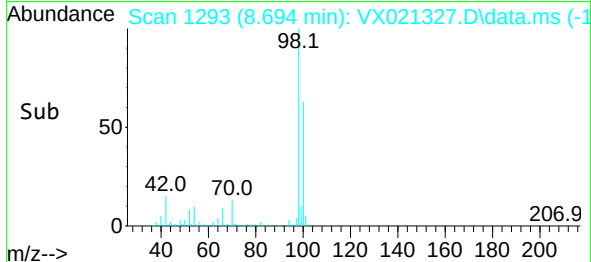
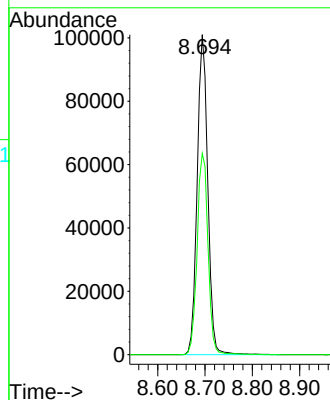
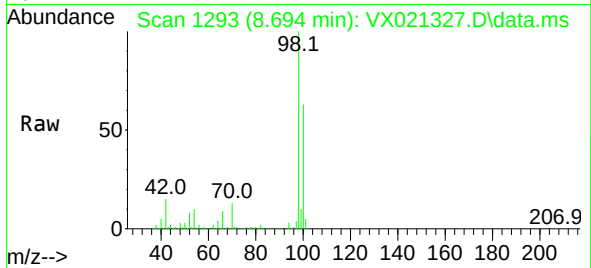




#50  
Toluene-d8  
Concen: 48.41 ug/l  
RT: 8.694 min Scan# 1293  
Delta R.T. -0.000 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

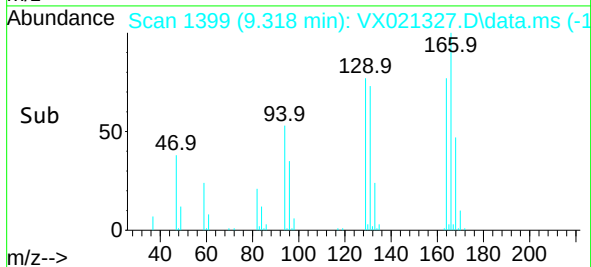
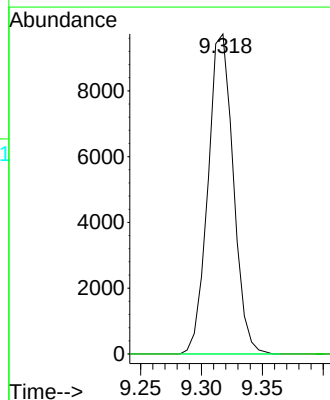
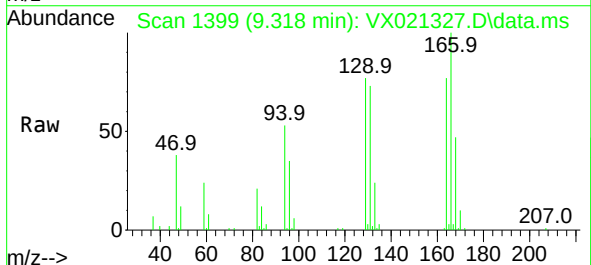
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE134D4-20210315

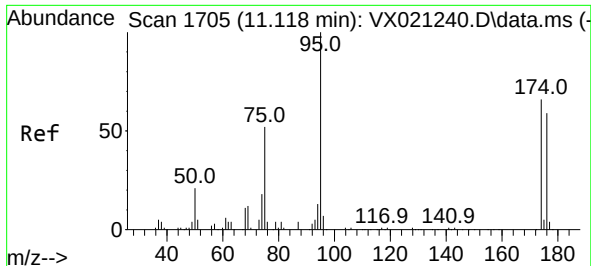
Tgt Ion: 98 Resp: 156880  
Ion Ratio Lower Upper  
98 100  
100 64.7 51.9 77.9



#60  
Dibromochloromethane  
Concen: 13.40 ug/l  
RT: 9.318 min Scan# 1399  
Delta R.T. -0.247 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

Tgt Ion: 129 Resp: 14078  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.4 115.2#

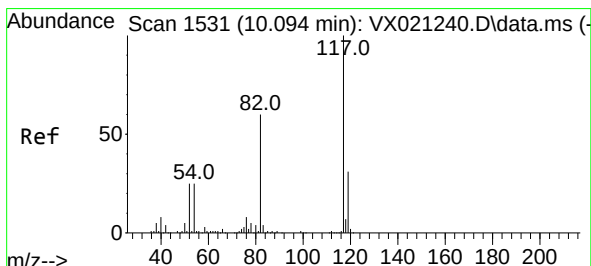
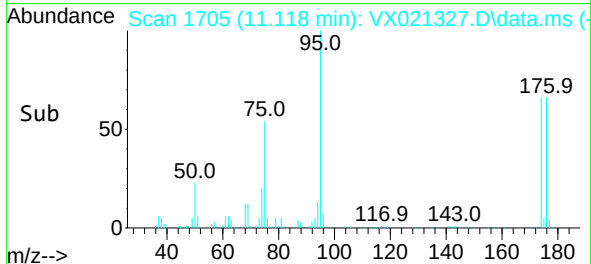
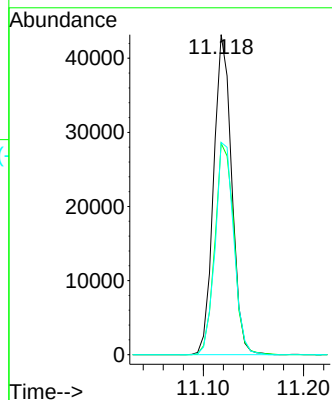
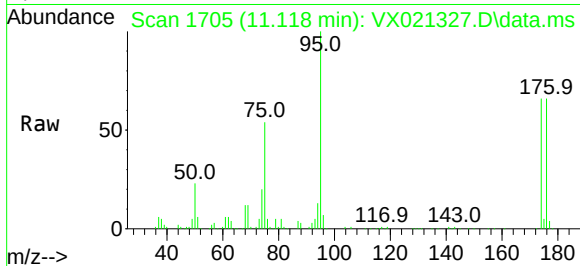




#62  
4-Bromofluorobenzene  
Concen: 42.89 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. -0.000 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

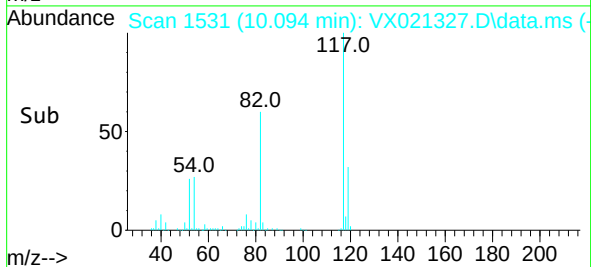
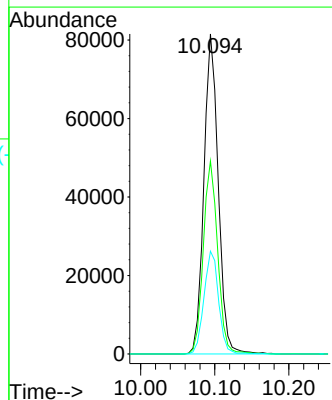
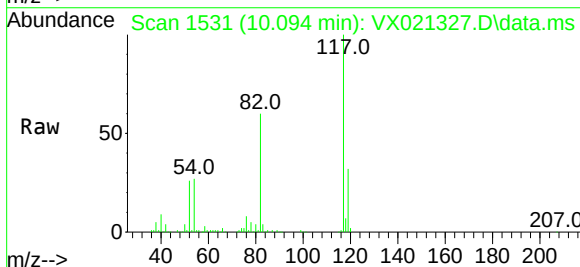
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE134D4-20210315

Tgt Ion: 95 Resp: 53982  
Ion Ratio Lower Upper  
95 100  
174 69.2 0.0 154.6  
176 68.4 0.0 155.8

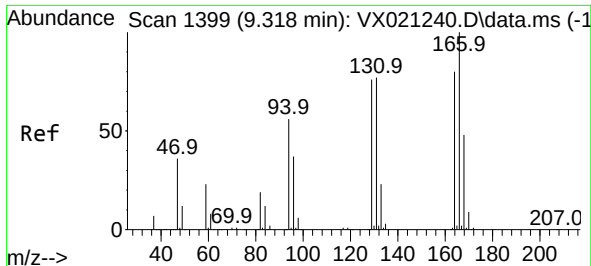


#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.094 min Scan# 1531  
Delta R.T. 0.000 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

Tgt Ion:117 Resp: 109729  
Ion Ratio Lower Upper  
117 100  
82 60.3 47.4 71.2  
119 32.1 26.6 39.8

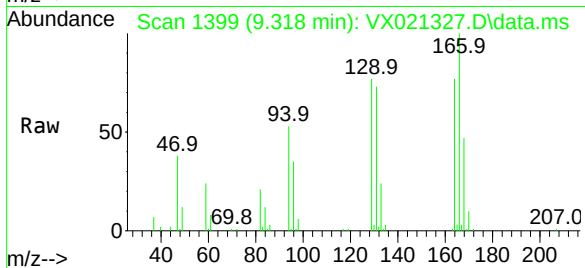




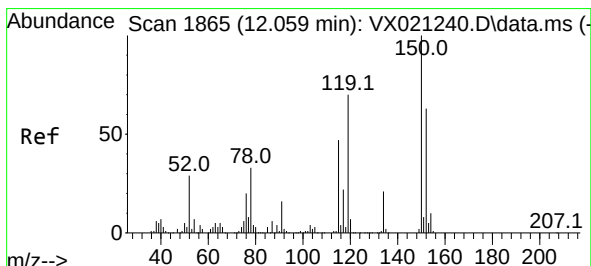
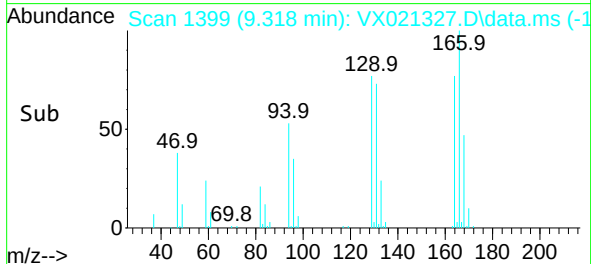
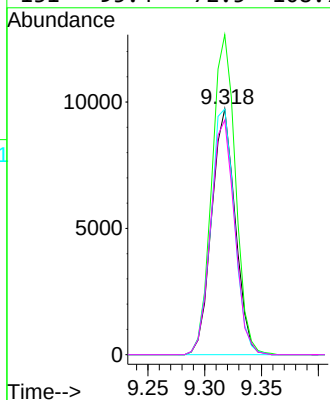


#64  
Tetrachloroethene  
Concen: 17.07 ug/l  
RT: 9.318 min Scan# 1399  
Delta R.T. -0.000 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE134D4-20210315

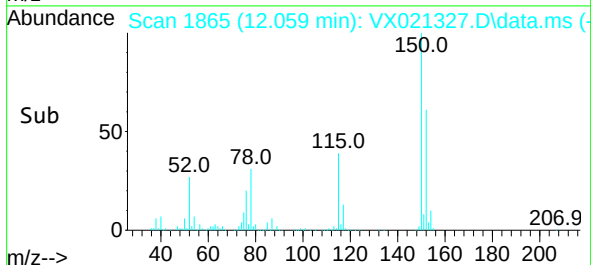
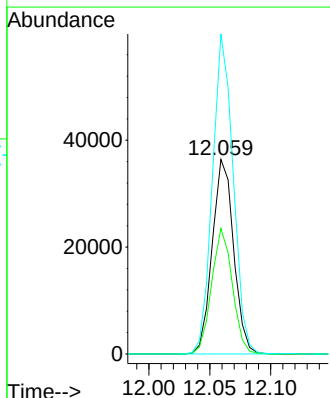
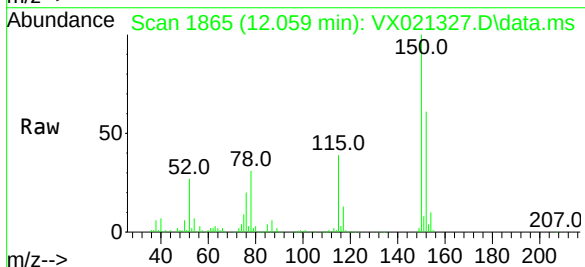


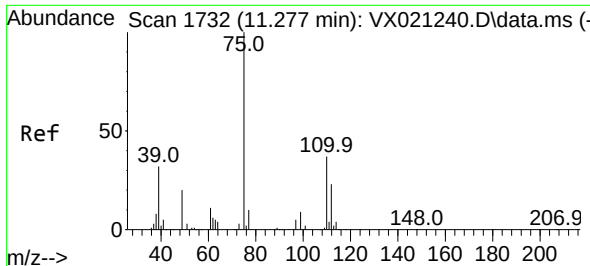
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:164 | Resp: | 13992       |
| Ion         | Ratio | Lower Upper |
| 164         | 100   |             |
| 166         | 130.2 | 103.4 155.2 |
| 129         | 100.0 | 70.8 106.2  |
| 131         | 95.4  | 72.5 108.7  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.059 min Scan# 1865  
Delta R.T. 0.000 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:152 | Resp: | 44561       |
| Ion         | Ratio | Lower Upper |
| 152         | 100   |             |
| 115         | 62.4  | 41.1 123.3  |
| 150         | 159.2 | 0.0 349.0   |

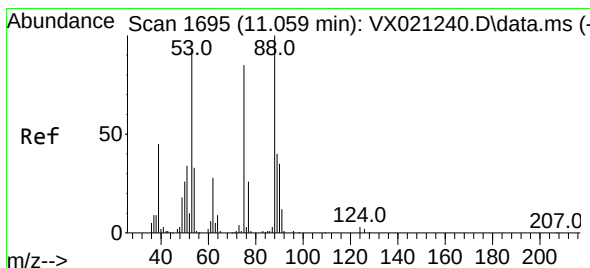
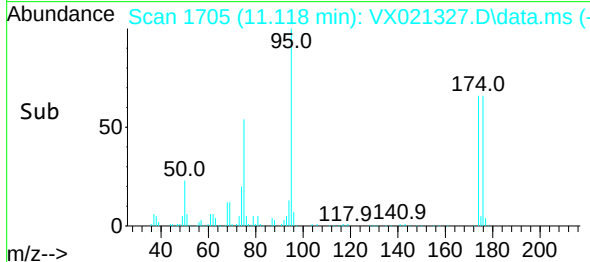
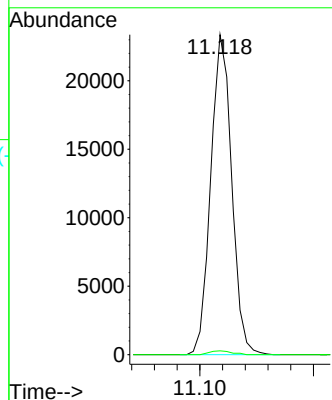
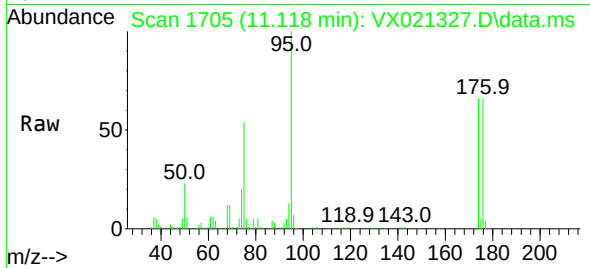




#76  
1,2,3-Trichloropropane  
Concen: 28.93 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. -0.159 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE134D4-20210315

Tgt Ion: 75 Resp: 29903  
Ion Ratio Lower Upper  
75 100  
77 1.3 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 78.54 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. 0.059 min  
Lab File: VX021327.D  
Acq: 20 Mar 2021 05:29

Tgt Ion: 75 Resp: 29903  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#

