

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX062321\  
 Data File : VX022851.D  
 Acq On : 23 Jun 2021 19:42  
 Operator : JC/MD  
 Sample : M2783-18 5X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE132D4-20210618

Quant Time: Jun 24 03:37:32 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062321W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 23 19:12:26 2021  
 Response via : Initial Calibration

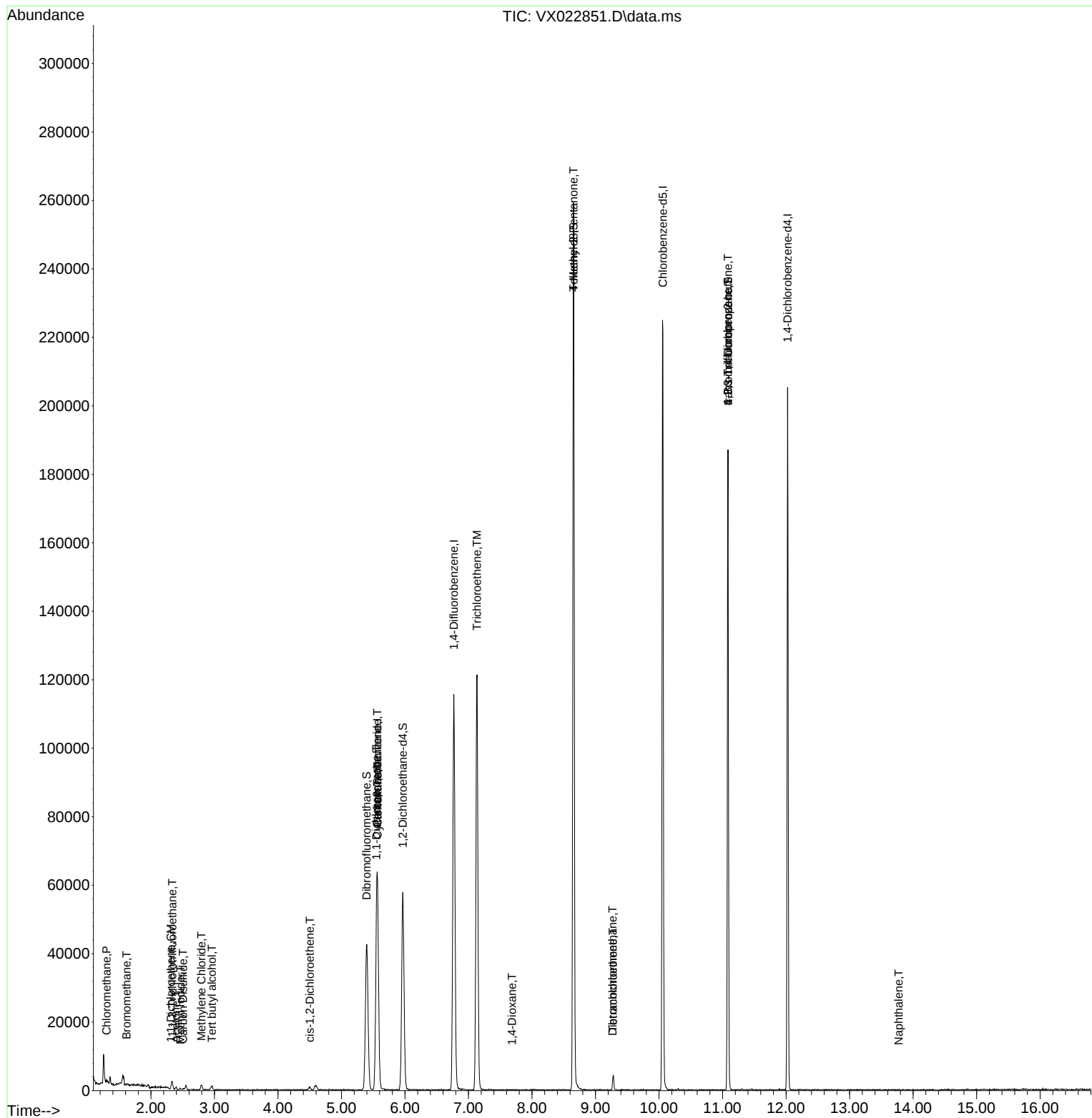
| Compound                      | R.T.           | QIon | Response            | Conc   | Units | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|-------|----------|
| -----                         |                |      |                     |        |       |          |
| Internal Standards            |                |      |                     |        |       |          |
| 1) Pentafluorobenzene         | 5.562          | 168  | 53899               | 50.000 | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.769          | 114  | 110709              | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.061         | 117  | 95945               | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 35295               | 50.000 | ug/l  | 0.00     |
|                               |                |      |                     |        |       |          |
| System Monitoring Compounds   |                |      |                     |        |       |          |
| 33) 1,2-Dichloroethane-d4     | 5.964          | 65   | 51556               | 52.707 | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 105.420% |        |       |          |
| 35) Dibromofluoromethane      | 5.397          | 113  | 35626               | 50.675 | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 101.360% |        |       |          |
| 50) Toluene-d8                | 8.653          | 98   | 145707              | 52.882 | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 105.760% |        |       |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 48307               | 46.977 | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 93.960%  |        |       |          |
|                               |                |      |                     |        |       |          |
| Target Compounds              |                |      |                     |        |       | Qvalue   |
| 3) Chloromethane              | 1.300          | 50   | 192                 | 0.230  | ug/l  | # 44     |
| 5) Bromomethane               | 1.617          | 94   | 193                 | 0.455  | ug/l  | # 45     |
| 9) 1,1,2-Trichlorotrifluo...  | 2.337          | 101  | 986                 | 1.407  | ug/l  | 92       |
| 10) Methyl Iodide             | 2.465          | 142  | 249                 | 4.152  | ug/l  | # 59     |
| 11) Tert butyl alcohol        | 2.959          | 59   | 778                 | 3.816  | ug/l  | # 73     |
| 12) 1,1-Dichloroethene        | 2.312          | 96   | 165                 | 0.236  | ug/l  | # 47     |
| 16) Acetone                   | 2.392          | 43   | 541                 | 1.248  | ug/l  | 95       |
| 17) Carbon Disulfide          | 2.508          | 76   | 334                 | 3.679  | ug/l  | # 75     |
| 20) Methylene Chloride        | 2.794          | 84   | 696                 | 1.176  | ug/l  | 94       |
| 27) cis-1,2-Dichloroethene    | 4.501          | 96   | 490                 | 0.569  | ug/l  | 92       |
| 31) Cyclohexane               | 5.568          | 56   | 1800                | 1.303  | ug/l  | # 17     |
| 36) 1,1-Dichloropropene       | 5.550          | 75   | 6010                | 5.111  | ug/l  | # 44     |
| 38) Carbon Tetrachloride      | 5.562          | 117  | 6236                | 6.323  | ug/l  | # 12     |
| 44) Trichloroethene           | 7.135          | 130  | 41480               | 51.584 | ug/l  | 89       |
| 49) 1,4-Dioxane               | 7.683          | 88   | 56                  | 2.567  | ug/l  | # 24     |
| 51) 4-Methyl-2-Pentanone      | 8.653          | 43   | 879                 | 0.645  | ug/l  | # 1      |
| 60) Dibromochloromethane      | 9.268          | 129  | 964                 | 4.759  | ug/l  | # 11     |
| 64) Tetrachloroethene         | 9.275          | 164  | 778                 | 1.154  | ug/l  | # 79     |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 26815               | 28.763 | ug/l  | # 38     |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 26815               | 74.084 | ug/l  | # 12     |
| 95) Naphthalene               | 13.774         | 128  | 86                  | 1.951  | ug/l  | # 69     |
| -----                         |                |      |                     |        |       |          |

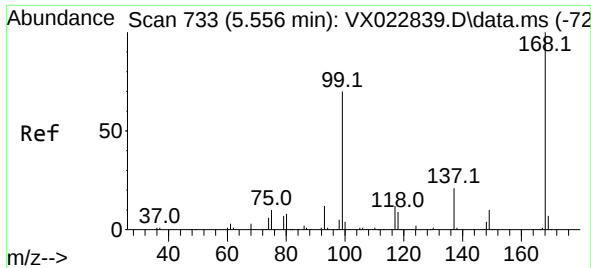
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX062321\  
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RE132D4-20210618

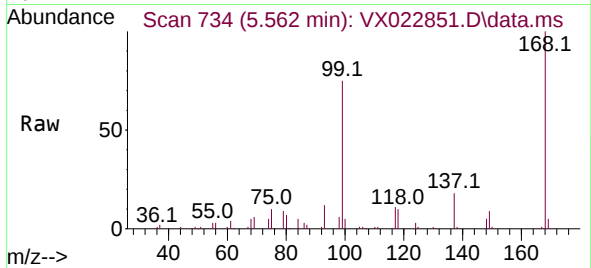
Quant Time: Jun 24 03:37:32 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062321W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 23 19:12:26 2021  
Response via : Initial Calibration



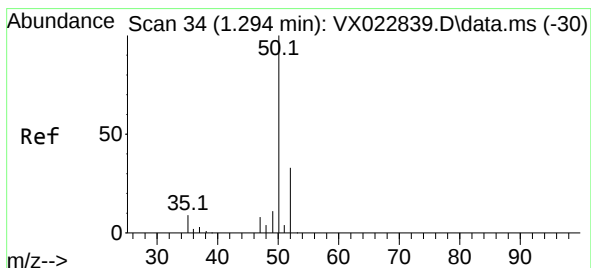
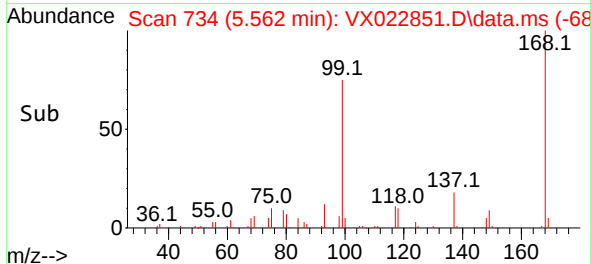
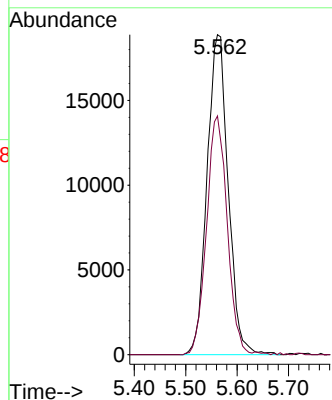


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. 0.006 min  
Lab File: VX022851.D  
Acq: 23 Jun 2021 19:42

Instrument :  
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RE132D4-20210618

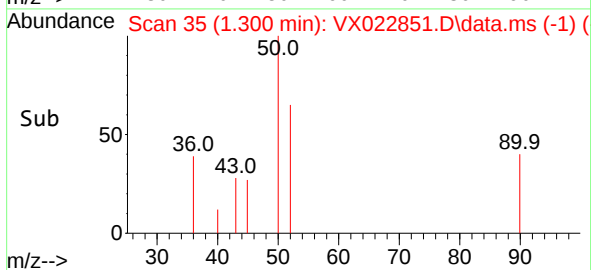
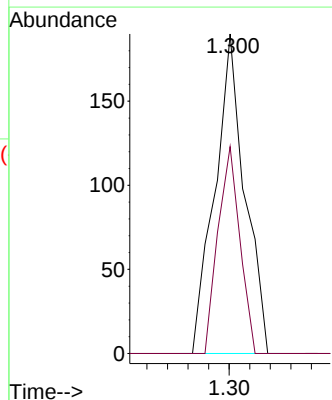
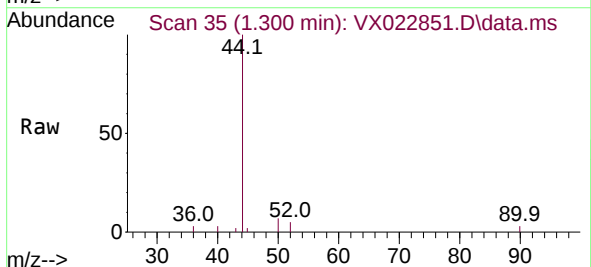


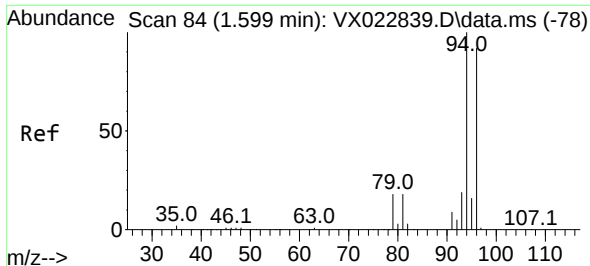
Tgt Ion:168 Resp: 53899  
Ion Ratio Lower Upper  
168 100  
99 74.6 45.8 68.6#



#3  
Chloromethane  
Concen: 0.230 ug/l  
RT: 1.300 min Scan# 35  
Delta R.T. 0.006 min  
Lab File: VX022851.D  
Acq: 23 Jun 2021 19:42

Tgt Ion: 50 Resp: 192  
Ion Ratio Lower Upper  
50 100  
52 64.7 26.4 39.6#

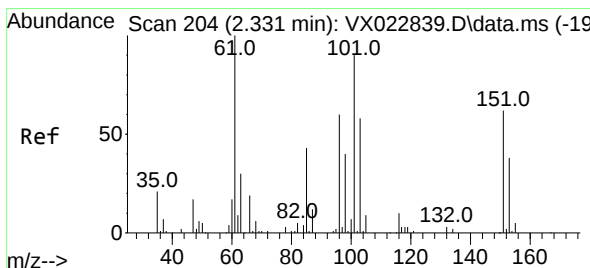
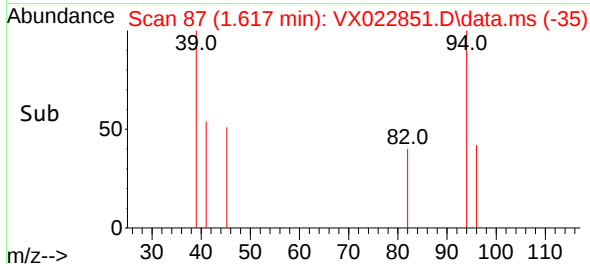
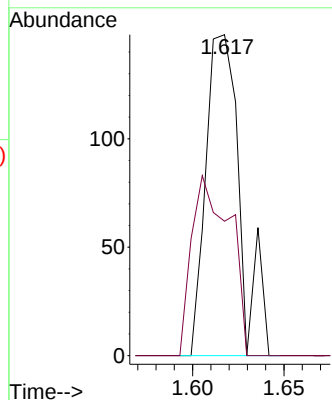
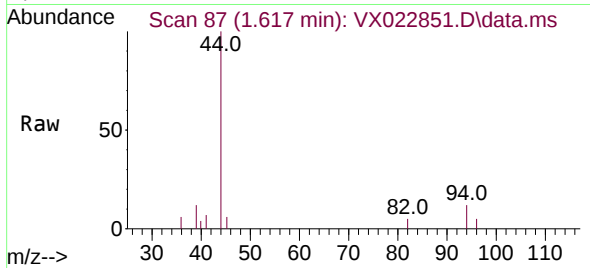




#5  
Bromomethane  
Concen: 0.455 ug/l  
RT: 1.617 min Scan# 87  
Delta R.T. 0.018 min  
Lab File: VX022851.D  
Acq: 23 Jun 2021 19:42

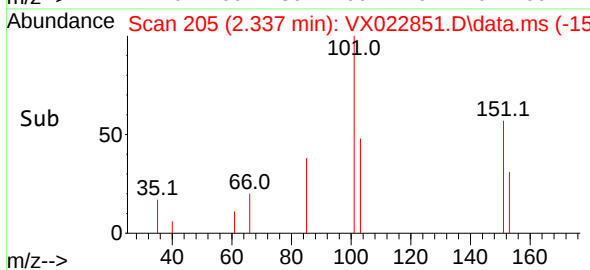
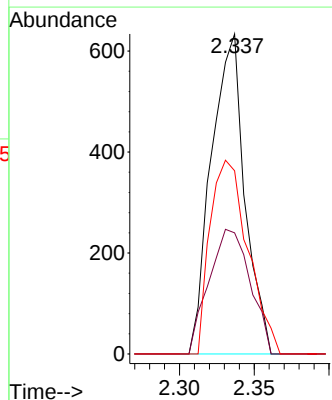
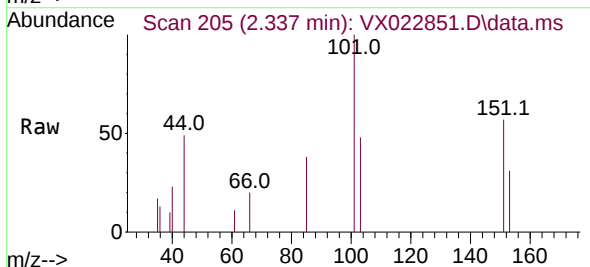
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20210618

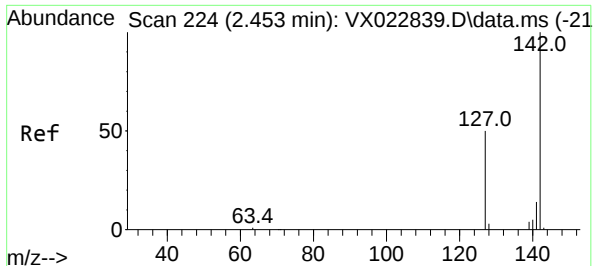
Tgt Ion: 94 Resp: 193  
Ion Ratio Lower Upper  
94 100  
96 41.9 76.4 114.6#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 1.407 ug/l  
RT: 2.337 min Scan# 205  
Delta R.T. 0.006 min  
Lab File: VX022851.D  
Acq: 23 Jun 2021 19:42

Tgt Ion: 101 Resp: 986  
Ion Ratio Lower Upper  
101 100  
85 48.0 34.9 52.3  
151 68.7 61.4 92.2

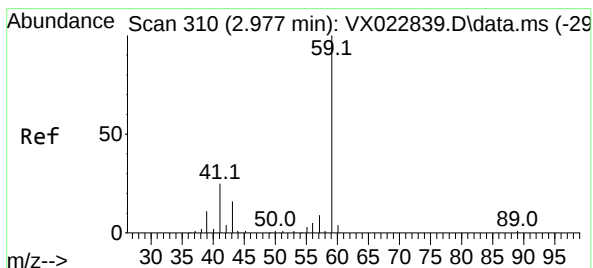
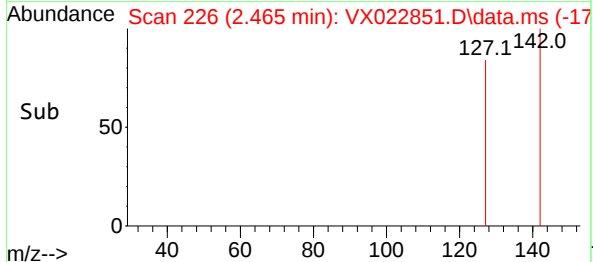
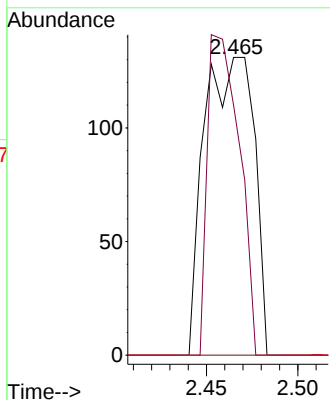
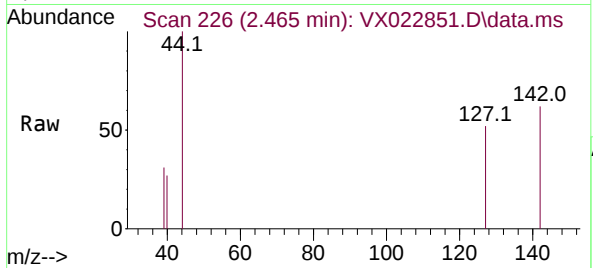




#10  
Methyl Iodide  
Concen: 4.152 ug/l  
RT: 2.465 min Scan# 226  
Delta R.T. 0.012 min  
Lab File: VX022851.D  
Acq: 23 Jun 2021 19:42

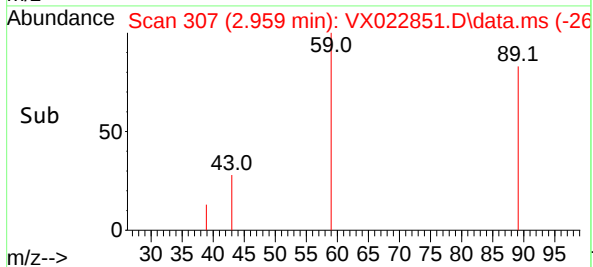
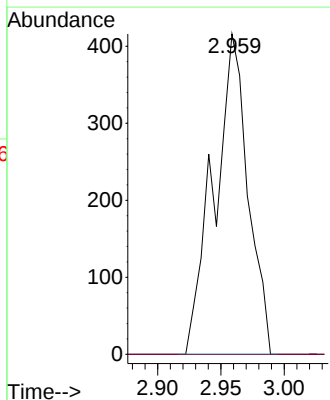
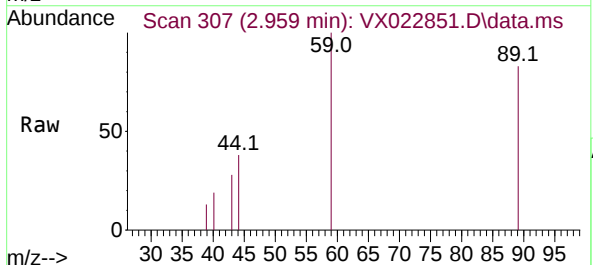
Instrument :  
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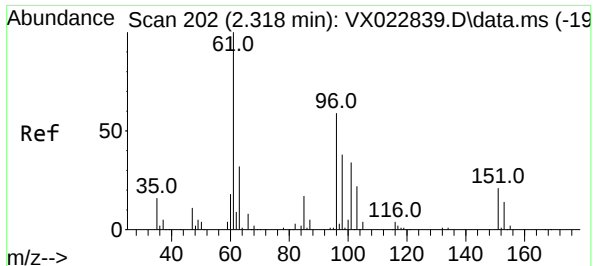
Tgt Ion:142 Resp: 249  
Ion Ratio Lower Upper  
142 100  
127 68.7 33.3 49.9#  
141 0.0 11.4 17.0#



#11  
Tert butyl alcohol  
Concen: 3.816 ug/l  
RT: 2.959 min Scan# 307  
Delta R.T. -0.018 min  
Lab File: VX022851.D  
Acq: 23 Jun 2021 19:42

Tgt Ion: 59 Resp: 778  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#





#12

1,1-Dichloroethene

Concen: 0.236 ug/l

RT: 2.312 min Scan# 201

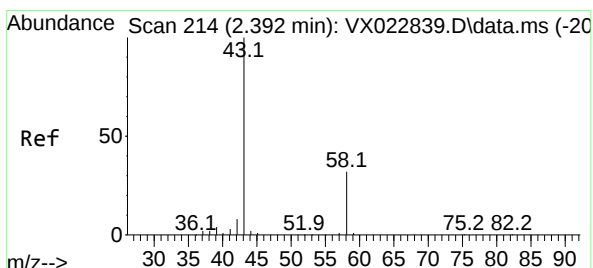
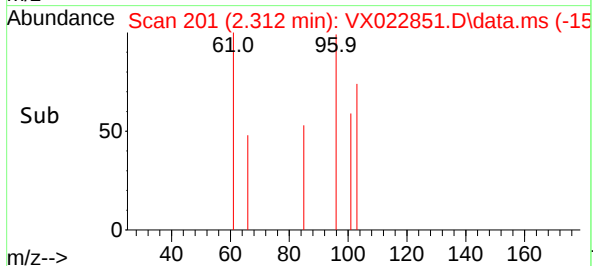
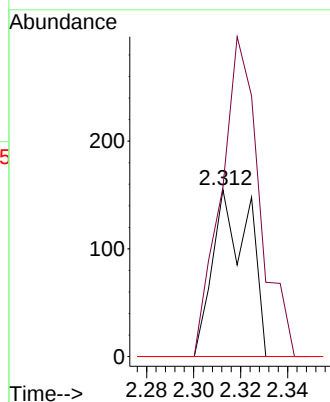
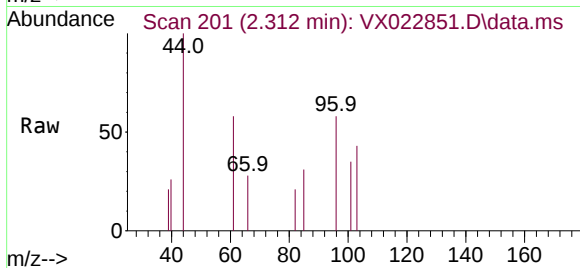
Delta R.T. -0.006 min

Lab File: VX022851.D

Acq: 23 Jun 2021 19:42

|             |                    |
|-------------|--------------------|
| Tgt Ion: 96 | Resp: 165          |
| Ion Ratio   | Lower Upper        |
| 96          | 100                |
| 61          | 101.3 124.6 187.0# |
| 98          | 0.0 50.6 76.0#     |

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20210618



#16

Acetone

Concen: 1.248 ug/l

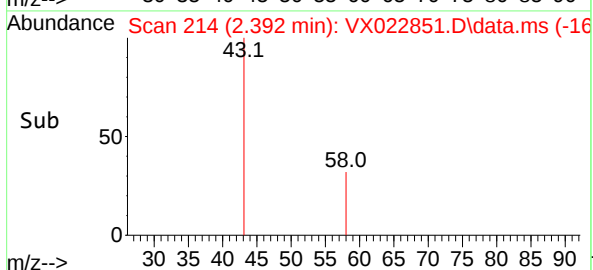
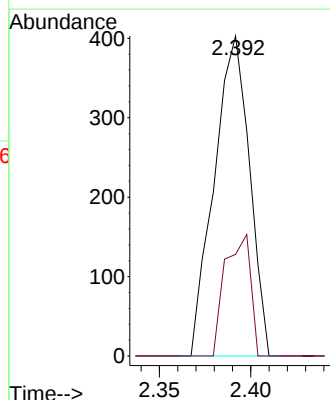
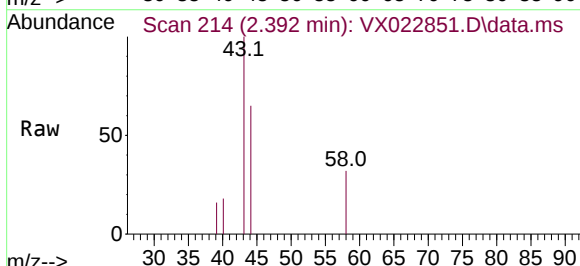
RT: 2.392 min Scan# 214

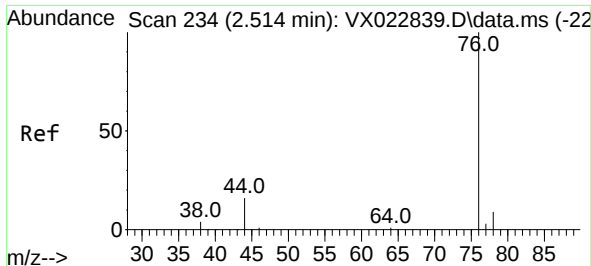
Delta R.T. -0.000 min

Lab File: VX022851.D

Acq: 23 Jun 2021 19:42

|             |                |
|-------------|----------------|
| Tgt Ion: 43 | Resp: 541      |
| Ion Ratio   | Lower Upper    |
| 43          | 100            |
| 58          | 31.8 27.8 41.8 |

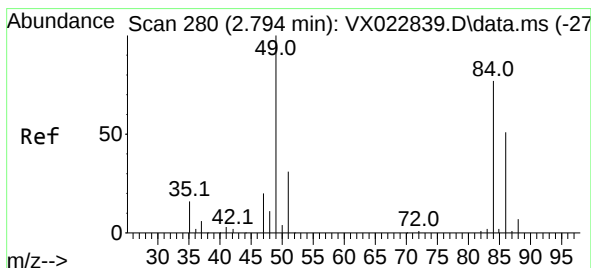
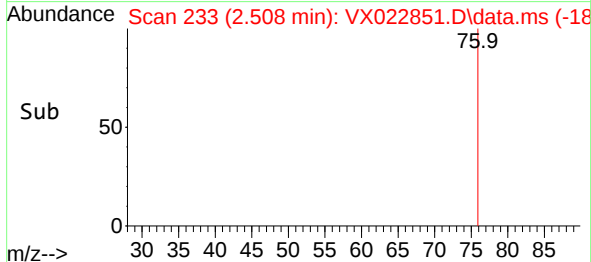
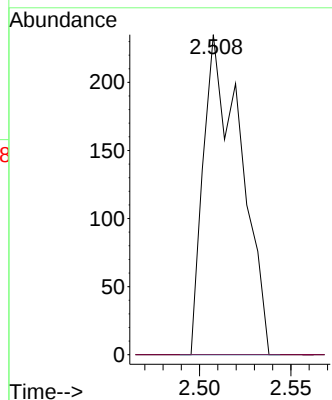
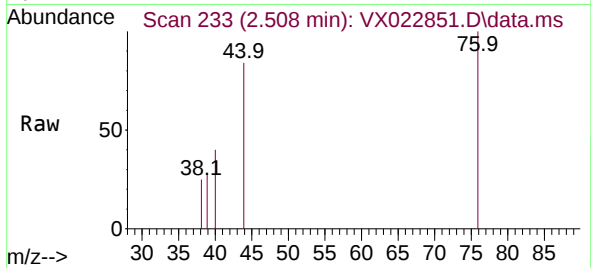




#17  
Carbon Disulfide  
Concen: 3.679 ug/l  
RT: 2.508 min Scan# 233  
Delta R.T. -0.006 min  
Lab File: VX022851.D  
Acq: 23 Jun 2021 19:42

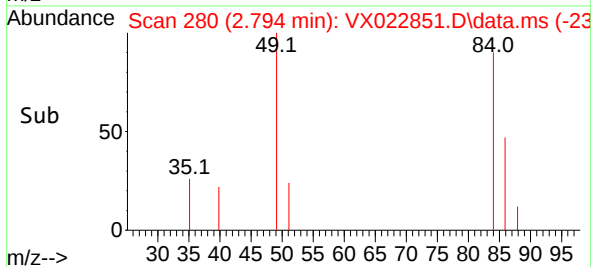
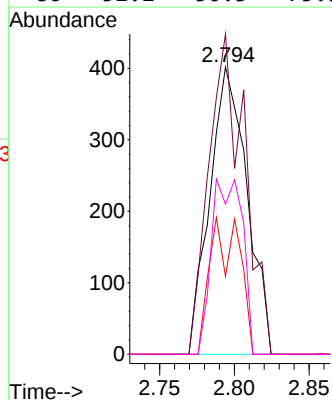
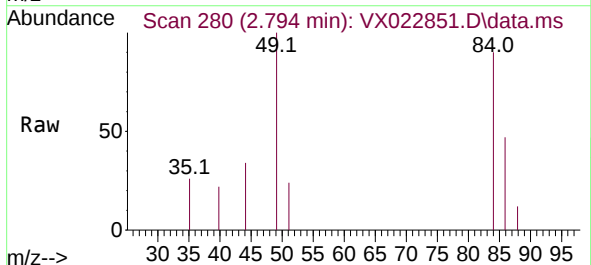
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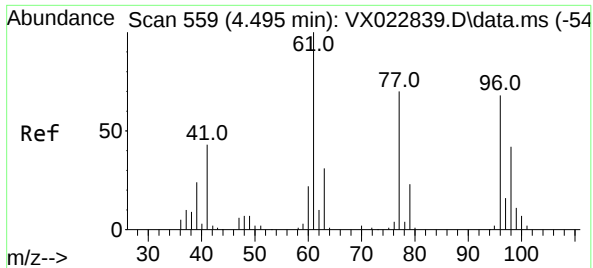
Tgt Ion: 76 Resp: 334  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.2 10.8#



#20  
Methylene Chloride  
Concen: 1.176 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. 0.000 min  
Lab File: VX022851.D  
Acq: 23 Jun 2021 19:42

Tgt Ion: 84 Resp: 696  
Ion Ratio Lower Upper  
84 100  
49 111.4 88.6 132.8  
51 27.1 27.0 40.6  
86 52.2 50.3 75.5





#27

cis-1,2-Dichloroethene

Concen: 0.569 ug/l

RT: 4.501 min Scan# 560

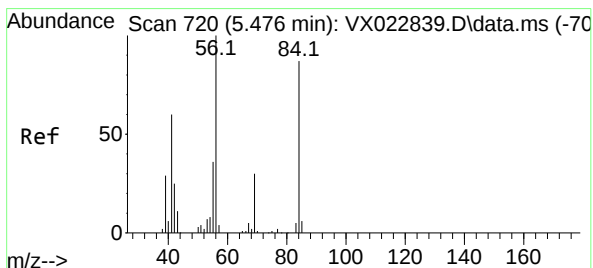
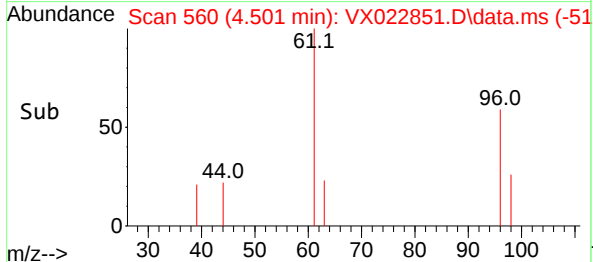
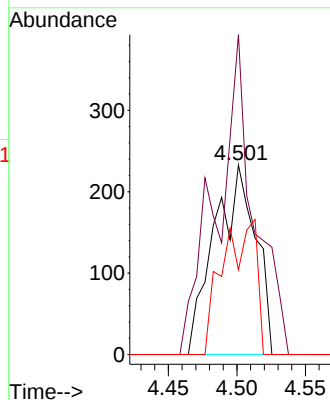
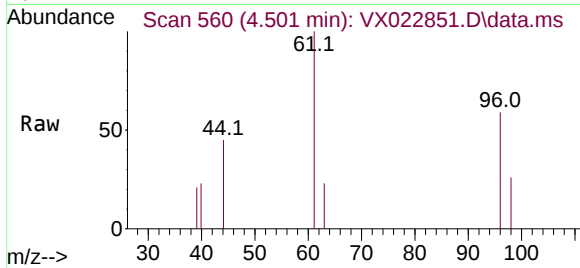
Delta R.T. 0.006 min

Lab File: VX022851.D

Acq: 23 Jun 2021 19:42

Tgt Ion: 96 Resp: 490

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 151.4 | 0.0   | 285.6 |
| 98  | 58.0  | 0.0   | 129.6 |



#31

Cyclohexane

Concen: 1.303 ug/l

RT: 5.568 min Scan# 735

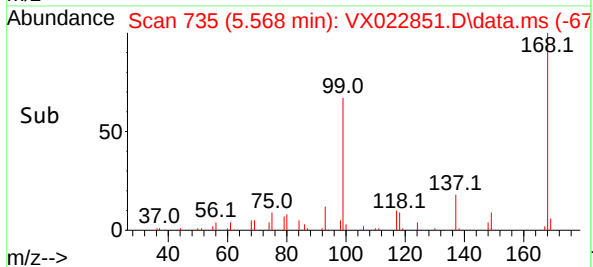
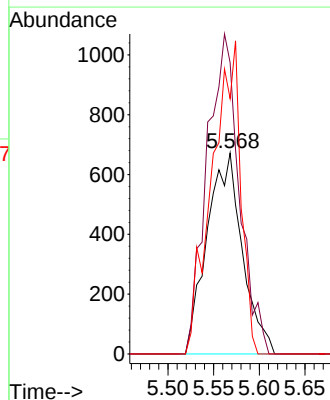
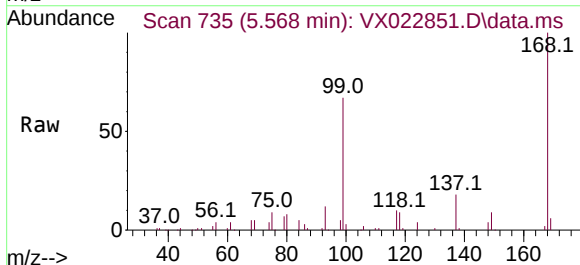
Delta R.T. 0.092 min

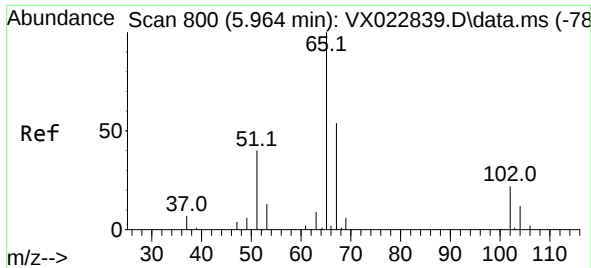
Lab File: VX022851.D

Acq: 23 Jun 2021 19:42

Tgt Ion: 56 Resp: 1800

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 56  | 100   |       |        |
| 69  | 144.9 | 25.3  | 37.9#  |
| 84  | 127.1 | 71.4  | 107.0# |

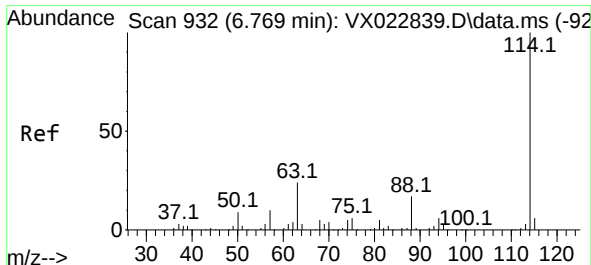
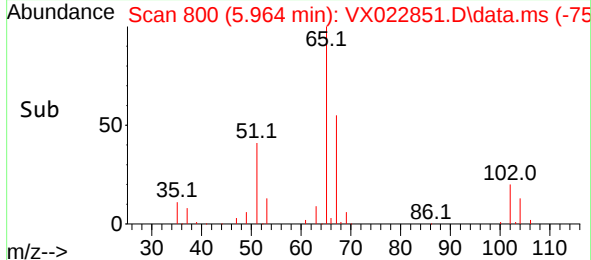
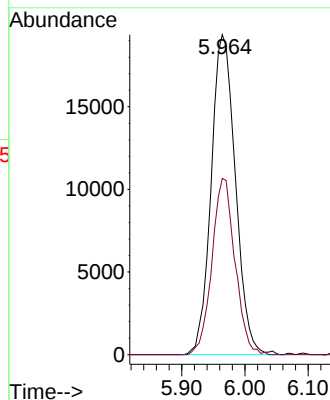
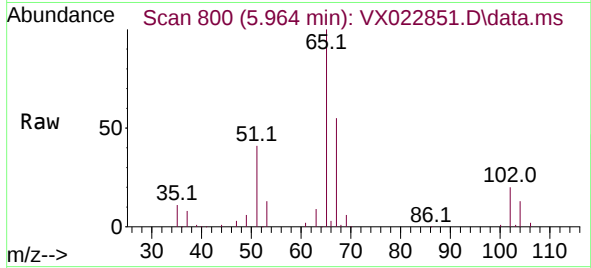




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.707 ug/l  
 RT: 5.964 min Scan# 800  
 Delta R.T. 0.000 min  
 Lab File: VX022851.D  
 Acq: 23 Jun 2021 19:42

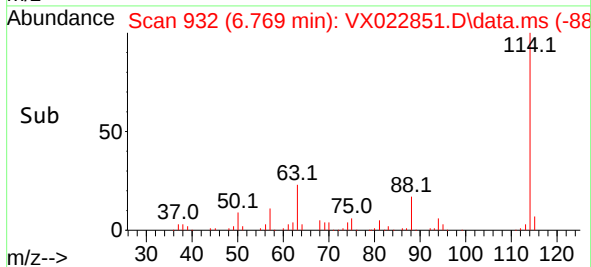
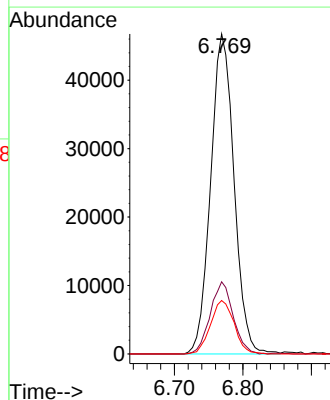
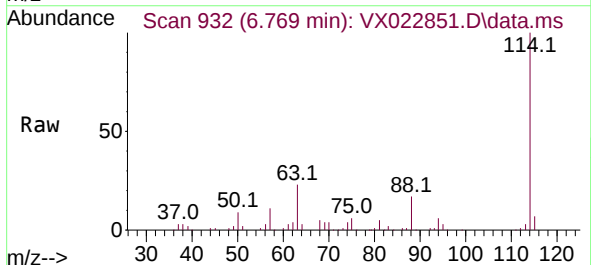
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE132D4-20210618

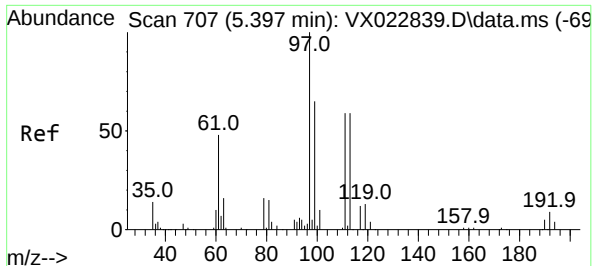
Tgt Ion: 65 Resp: 51556  
 Ion Ratio Lower Upper  
 65 100  
 67 52.3 0.0 105.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.769 min Scan# 932  
 Delta R.T. -0.000 min  
 Lab File: VX022851.D  
 Acq: 23 Jun 2021 19:42

Tgt Ion: 114 Resp: 110709  
 Ion Ratio Lower Upper  
 114 100  
 63 22.5 0.0 40.8  
 88 16.7 0.0 32.8





#35

Dibromofluoromethane

Concen: 50.675 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX022851.D

Acq: 23 Jun 2021 19:42

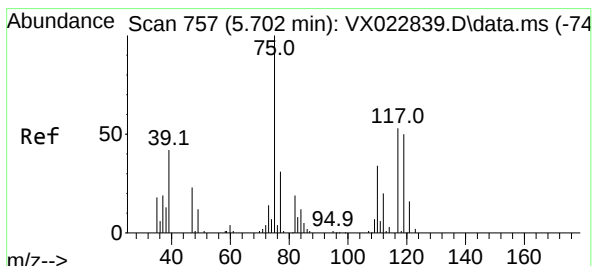
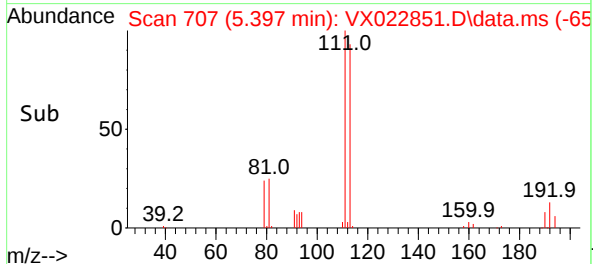
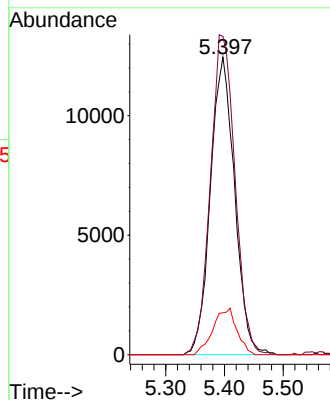
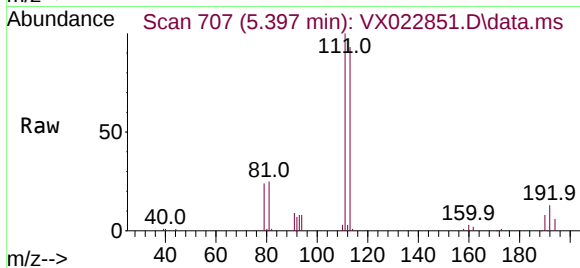
Tgt Ion:113 Resp: 35626

Ion Ratio Lower Upper

113 100

111 109.5 81.9 122.9

192 15.3 16.7 25.1#



#36

1,1-Dichloropropene

Concen: 5.111 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.152 min

Lab File: VX022851.D

Acq: 23 Jun 2021 19:42

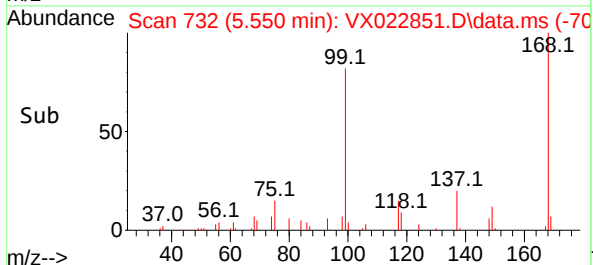
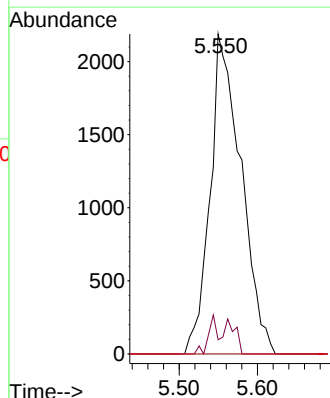
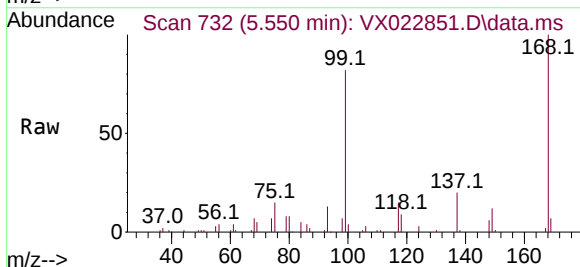
Tgt Ion: 75 Resp: 6010

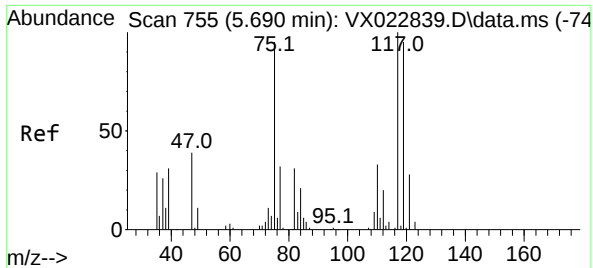
Ion Ratio Lower Upper

75 100

110 3.3 18.1 54.4#

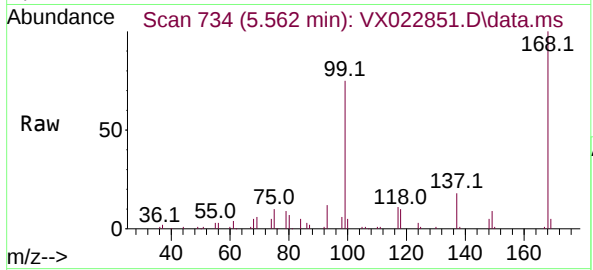
77 0.0 25.3 37.9#



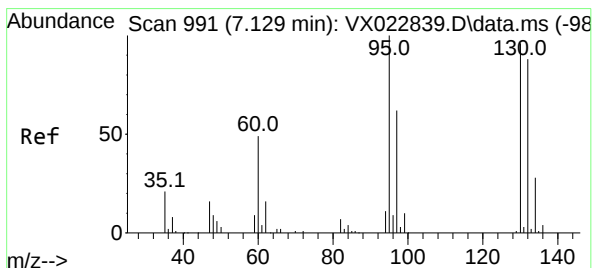
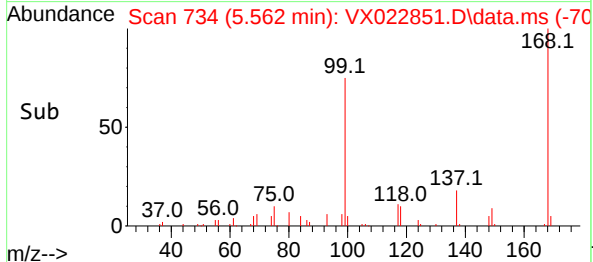
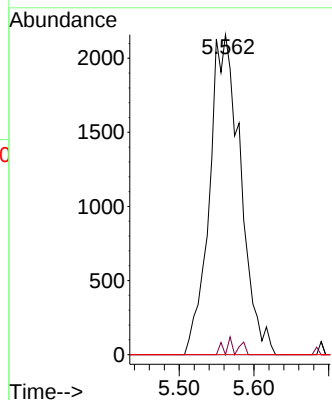


#38  
Carbon Tetrachloride  
Concen: 6.323 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.128 min  
Lab File: VX022851.D  
Acq: 23 Jun 2021 19:42

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20210618

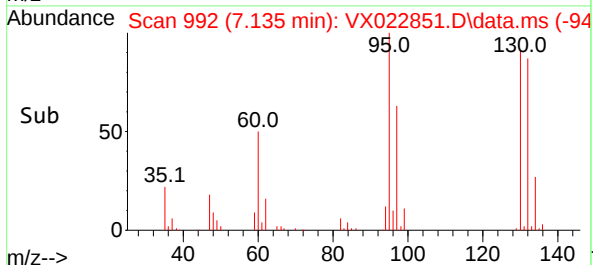
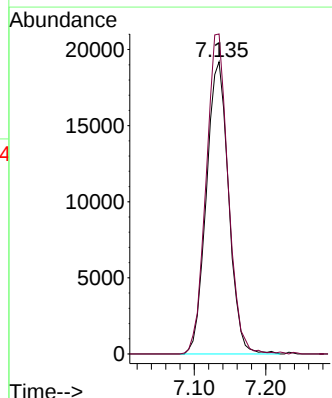
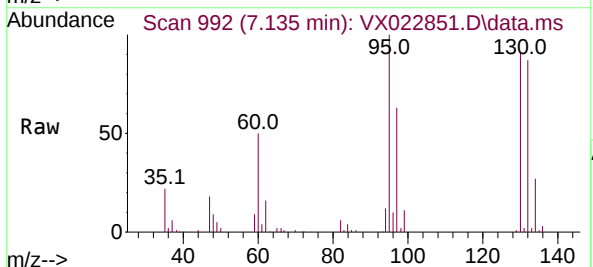


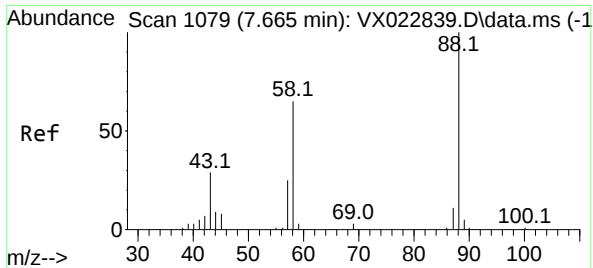
Tgt Ion:117 Resp: 6236  
Ion Ratio Lower Upper  
117 100  
119 0.0 76.2 114.2#  
121 0.0 24.8 37.2#



#44  
Trichloroethene  
Concen: 51.584 ug/l  
RT: 7.135 min Scan# 992  
Delta R.T. 0.006 min  
Lab File: VX022851.D  
Acq: 23 Jun 2021 19:42

Tgt Ion:130 Resp: 41480  
Ion Ratio Lower Upper  
130 100  
95 109.5 0.0 198.0

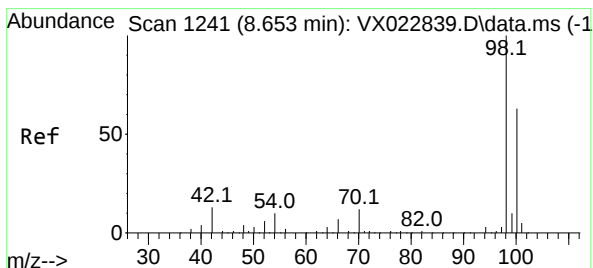
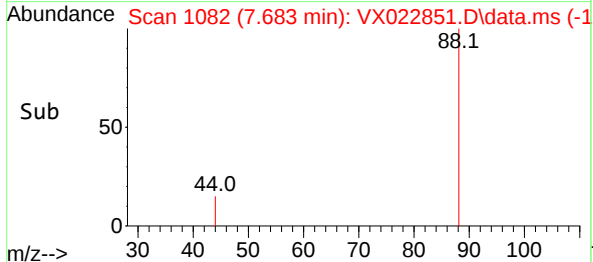
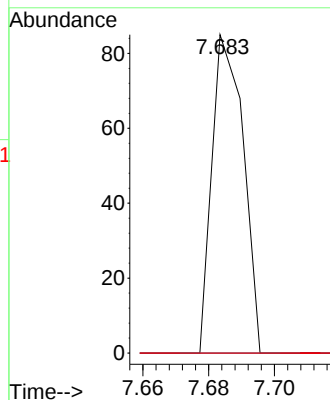
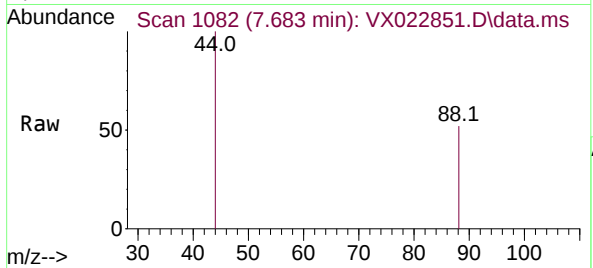




#49  
1,4-Dioxane  
Concen: 2.567 ug/l  
RT: 7.683 min Scan# 1082  
Delta R.T. 0.018 min  
Lab File: VX022851.D  
Acq: 23 Jun 2021 19:42

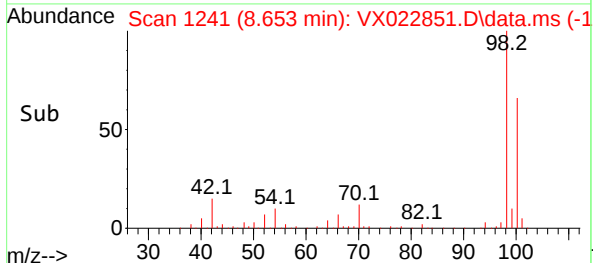
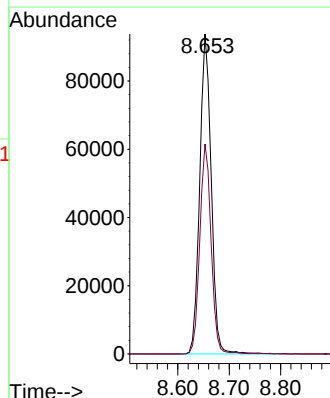
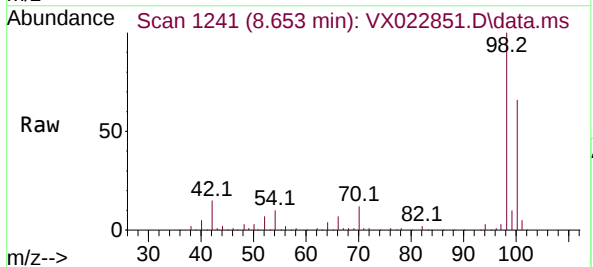
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20210618

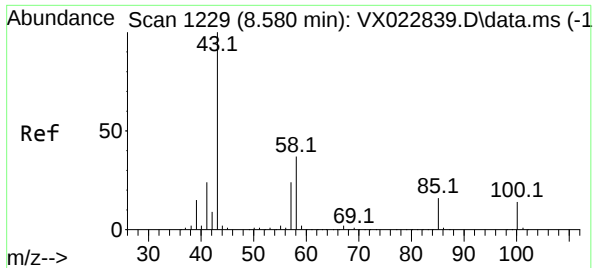
Tgt Ion: 88 Resp: 56  
Ion Ratio Lower Upper  
88 100  
43 0.0 23.2 34.8#  
58 0.0 55.0 82.4#



#50  
Toluene-d8  
Concen: 52.882 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX022851.D  
Acq: 23 Jun 2021 19:42

Tgt Ion: 98 Resp: 145707  
Ion Ratio Lower Upper  
98 100  
100 64.5 51.9 77.9

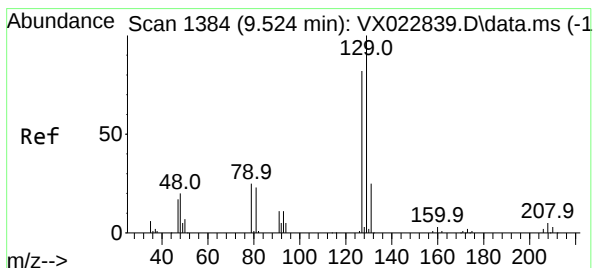
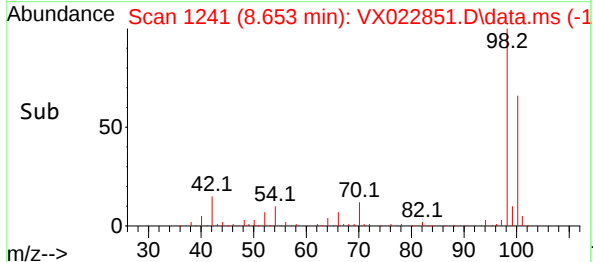
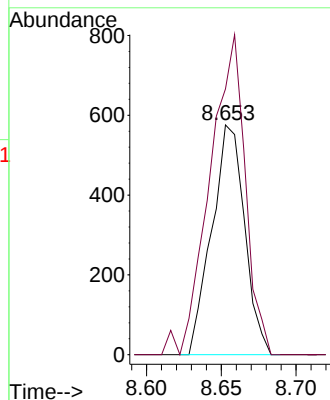
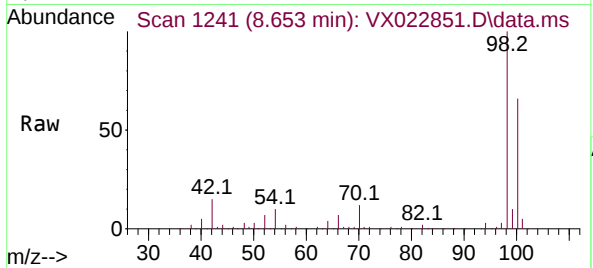




#51  
4-Methyl-2-Pentanone  
Concen: 0.645 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.073 min  
Lab File: VX022851.D  
Acq: 23 Jun 2021 19:42

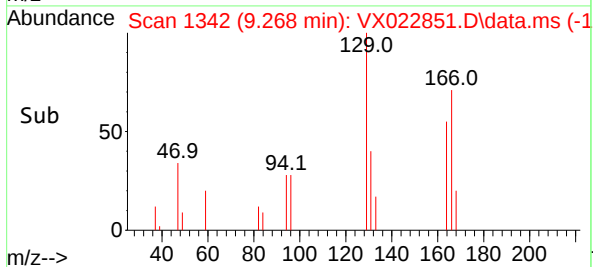
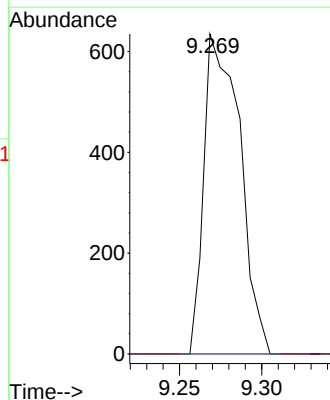
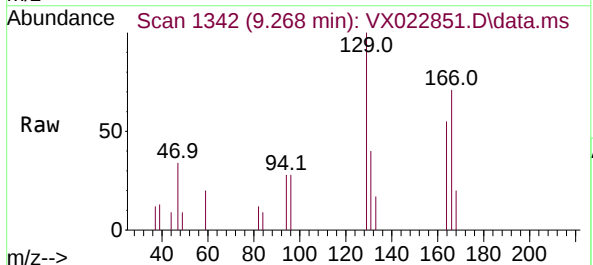
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20210618

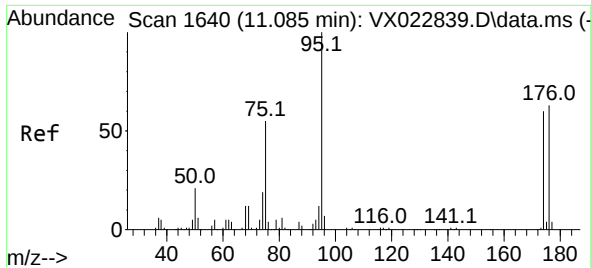
Tgt Ion: 43 Resp: 879  
Ion Ratio Lower Upper  
43 100  
58 150.5 35.4 53.0#



#60  
Dibromochloromethane  
Concen: 4.759 ug/l  
RT: 9.268 min Scan# 1342  
Delta R.T. -0.255 min  
Lab File: VX022851.D  
Acq: 23 Jun 2021 19:42

Tgt Ion: 129 Resp: 964  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.4 115.2#

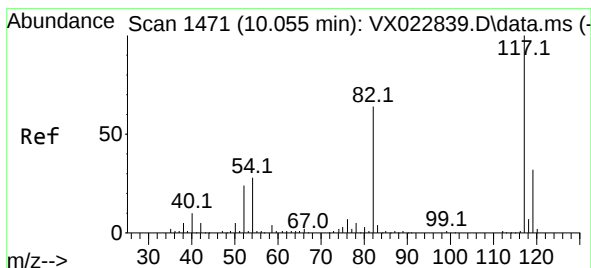
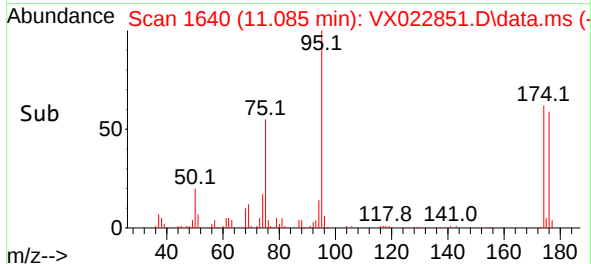
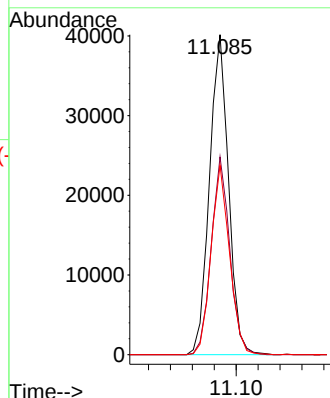
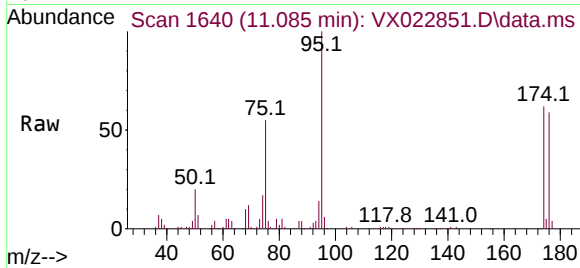




#62  
4-Bromofluorobenzene  
Concen: 46.977 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX022851.D  
Acq: 23 Jun 2021 19:42

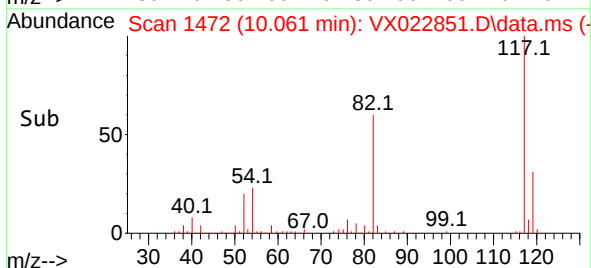
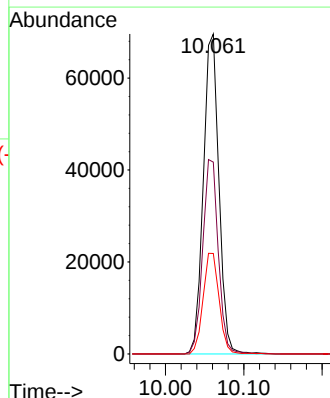
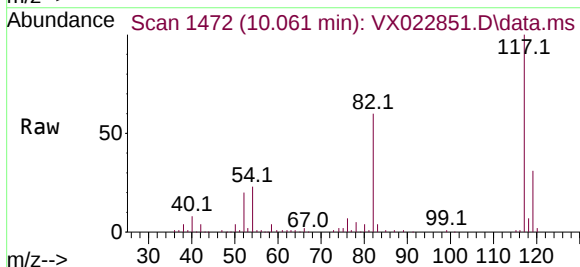
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20210618

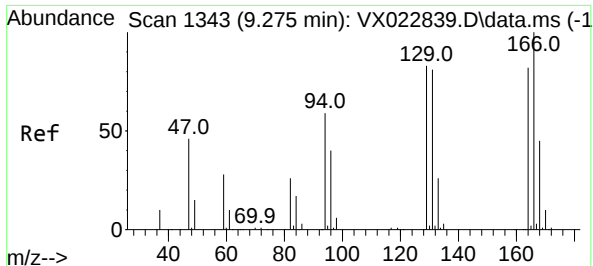
Tgt Ion: 95 Resp: 48307  
Ion Ratio Lower Upper  
95 100  
174 60.4 0.0 154.6  
176 57.7 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.061 min Scan# 1472  
Delta R.T. 0.006 min  
Lab File: VX022851.D  
Acq: 23 Jun 2021 19:42

Tgt Ion: 117 Resp: 95945  
Ion Ratio Lower Upper  
117 100  
82 59.9 47.4 71.2  
119 31.4 26.6 39.8



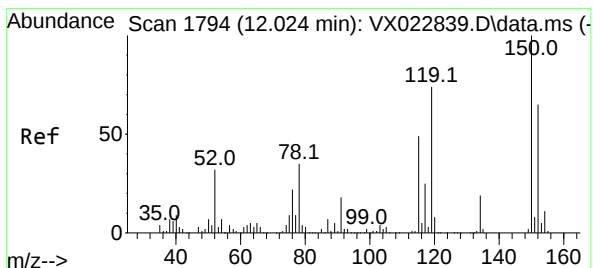
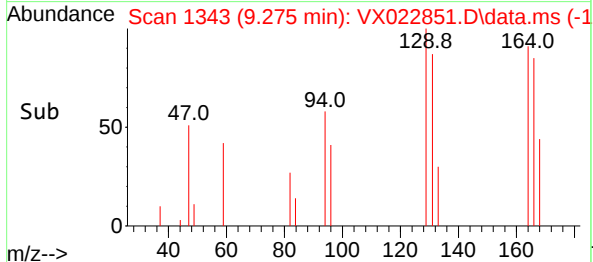
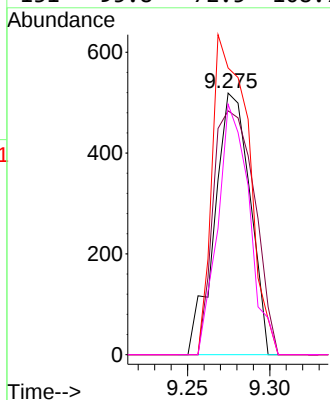
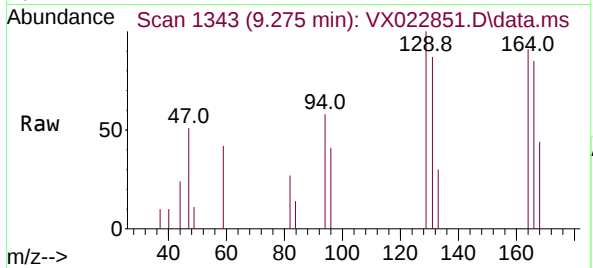


#64  
Tetrachloroethene  
Concen: 1.154 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.000 min  
Lab File: VX022851.D  
Acq: 23 Jun 2021 19:42

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20210618

Tgt Ion:164 Resp: 778

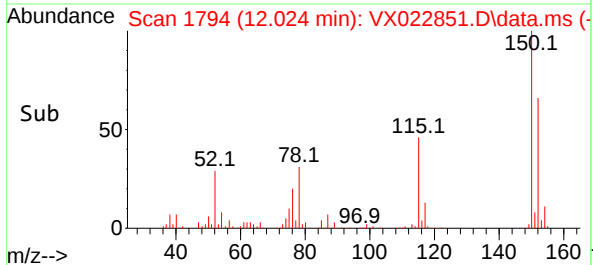
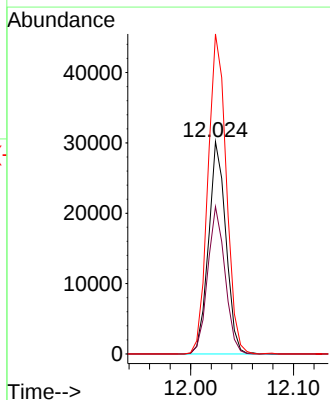
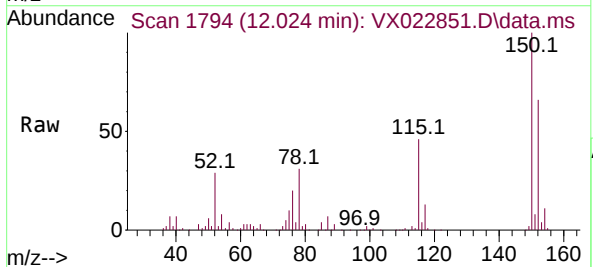
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 164 | 100   |       |        |
| 166 | 93.3  | 103.4 | 155.2# |
| 129 | 109.6 | 70.8  | 106.2# |
| 131 | 95.8  | 72.5  | 108.7  |

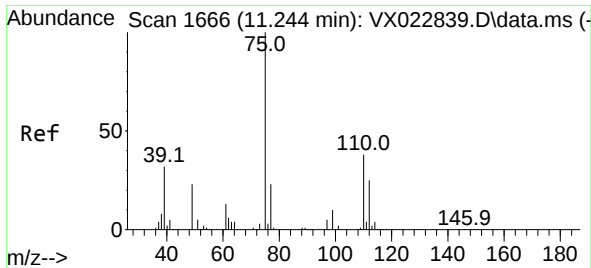


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX022851.D  
Acq: 23 Jun 2021 19:42

Tgt Ion:152 Resp: 35295

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 69.4  | 41.1  | 123.3 |
| 150 | 159.0 | 0.0   | 349.0 |

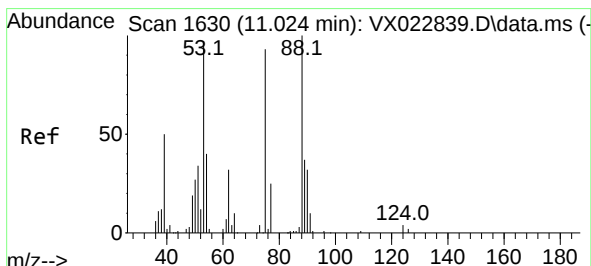
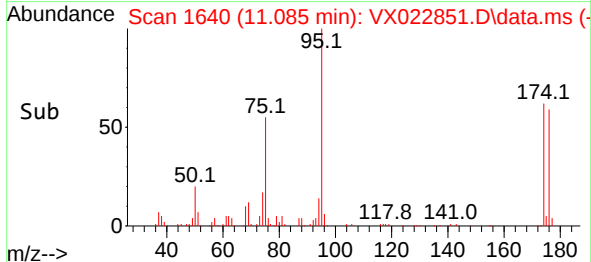
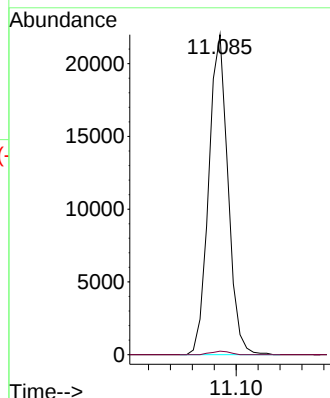
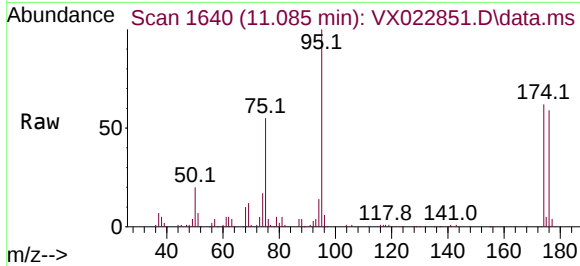




#76  
1,2,3-Trichloropropane  
Concen: 28.763 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX022851.D  
Acq: 23 Jun 2021 19:42

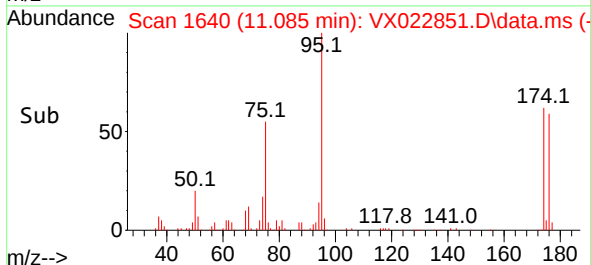
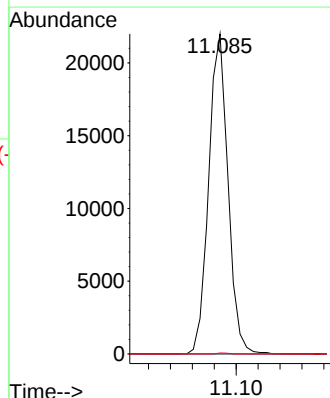
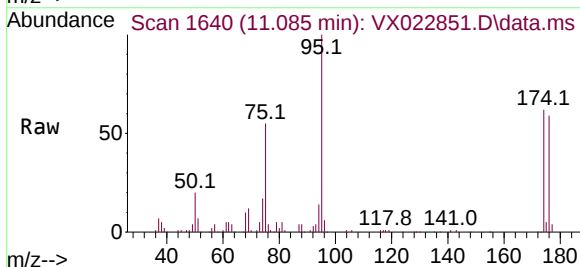
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20210618

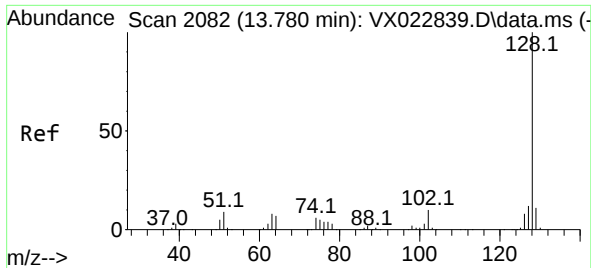
Tgt Ion: 75 Resp: 26815  
Ion Ratio Lower Upper  
75 100  
77 1.1 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 74.084 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.061 min  
Lab File: VX022851.D  
Acq: 23 Jun 2021 19:42

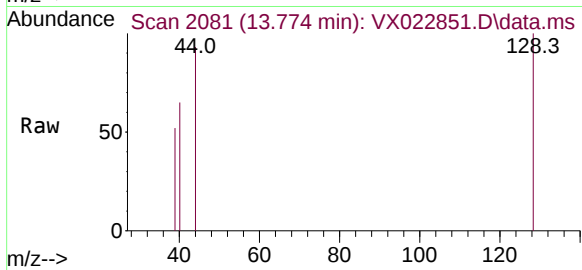
Tgt Ion: 75 Resp: 26815  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.2 37.9 56.9#





#95  
Naphthalene  
Concen: 1.951 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. -0.006 min  
Lab File: VX022851.D  
Acq: 23 Jun 2021 19:42

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20210618



Tgt Ion:128 Resp: 86  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.8 13.2#

