

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX090322\  
 Data File : VX031092.D  
 Acq On : 03 Sep 2022 19:00  
 Operator : JC/MD  
 Sample : N4357-12  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE105D1-20220823

Quant Time: Sep 06 00:16:00 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X090122W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 02 02:49:21 2022  
 Response via : Initial Calibration

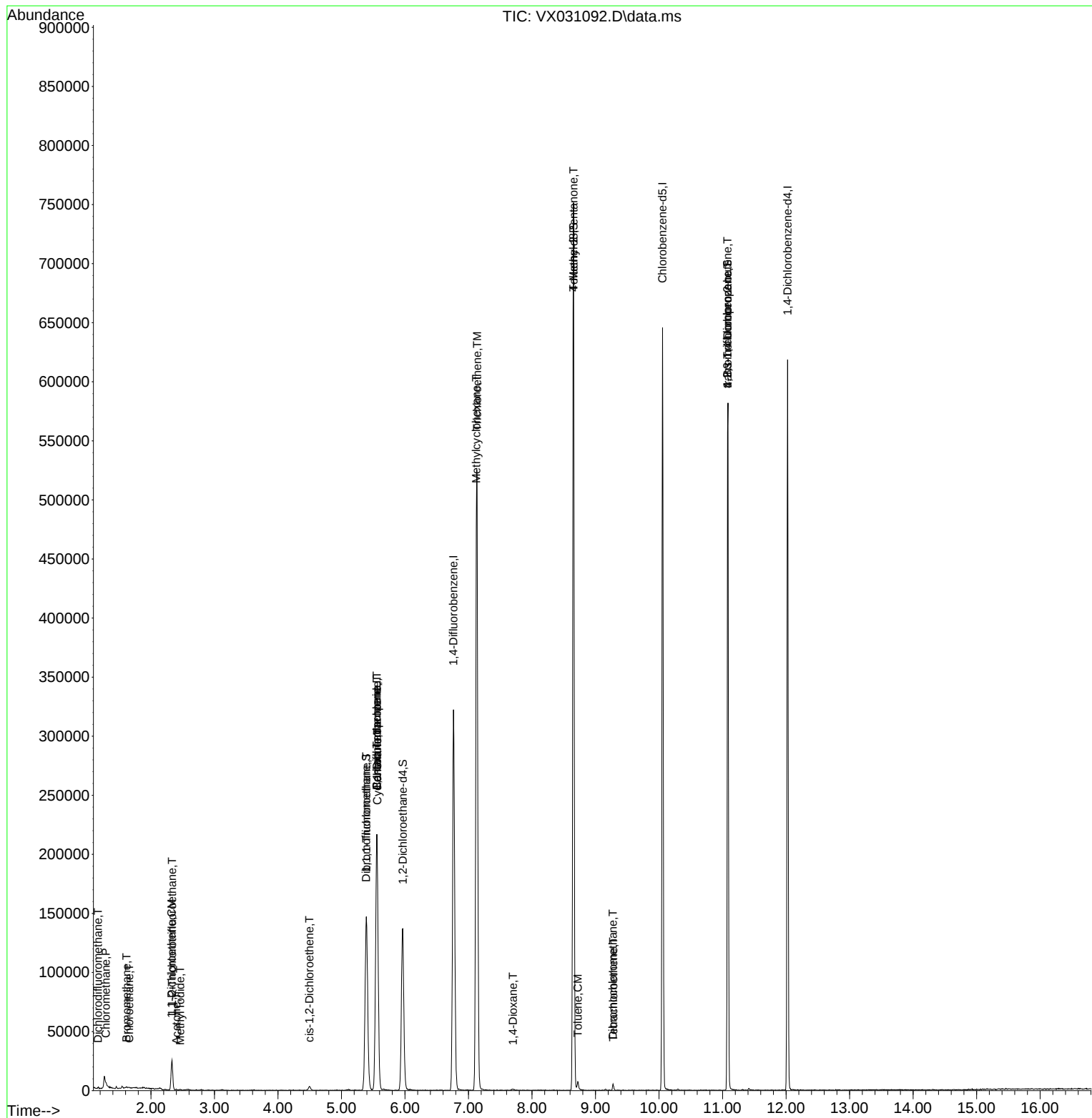
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 213631              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 351531              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 310173              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 141644              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.964          | 65   | 138429              | 50.360    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 100.720% |           |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 128524              | 50.100    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 100.200% |           |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 455188              | 48.212    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 96.420%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 156610              | 46.964    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 93.920%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.166          | 85   | 710                 | 0.323     | ug/l   | 97       |
| 3) Chloromethane              | 1.288          | 50   | 580                 | 0.973     | ug/l   | 89       |
| 5) Bromomethane               | 1.618          | 94   | 272                 | 0.265     | ug/l   | 89       |
| 6) Chloroethane               | 1.654          | 64   | 327                 | 1.927     | ug/l # | 41       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.331          | 101  | 8956                | 3.485     | ug/l   | 91       |
| 10) Methyl Iodide             | 2.459          | 142  | 504                 | 3.100     | ug/l # | 75       |
| 12) 1,1-Dichloroethene        | 2.325          | 96   | 1361                | 0.548     | ug/l   | 88       |
| 16) Acetone                   | 2.398          | 43   | 501                 | 0.472     | ug/l   | 98       |
| 20) Methylene Chloride        | 2.794          | 84   | 338                 | Below Cal | #      | 77       |
| 27) cis-1,2-Dichloroethene    | 4.495          | 96   | 2626                | 0.848     | ug/l   | 65       |
| 31) Cyclohexane               | 5.562          | 56   | 3282                | 0.874     | ug/l # | 10       |
| 32) 1,1,1-Trichloroethane     | 5.391          | 97   | 1351                | 0.321     | ug/l # | 45       |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 14301               | 3.980     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.556          | 117  | 21410               | 5.740     | ug/l # | 18       |
| 39) Methylcyclohexane         | 7.123          | 83   | 2597                | 0.583     | ug/l # | 1        |
| 44) Trichloroethene           | 7.135          | 130  | 224839              | 68.856    | ug/l   | 91       |
| 49) 1,4-Dioxane               | 7.702          | 88   | 977                 | 13.039    | ug/l # | 83       |
| 51) 4-Methyl-2-Pentanone      | 8.653          | 43   | 1518                | 0.484     | ug/l # | 1        |
| 52) Toluene                   | 8.720          | 92   | 2592                | 0.387     | ug/l   | 91       |
| 60) Dibromochloromethane      | 9.275          | 129  | 774                 | 0.262     | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.281          | 164  | 886                 | 0.286     | ug/l # | 76       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 72358               | 21.610    | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 72358               | 67.915    | ug/l # | 13       |
| -----                         |                |      |                     |           |        |          |

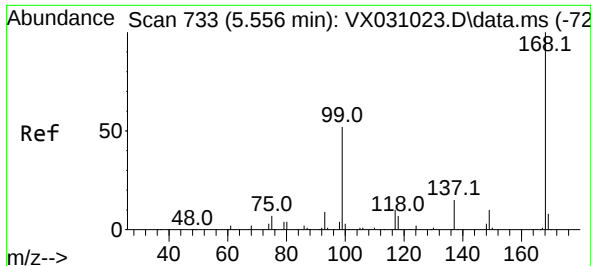
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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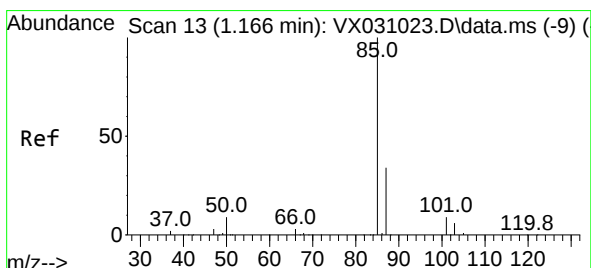
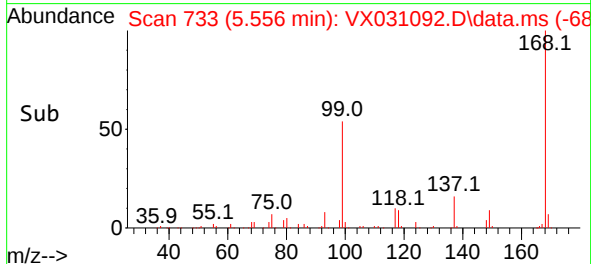
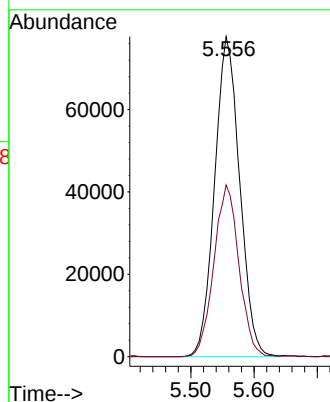
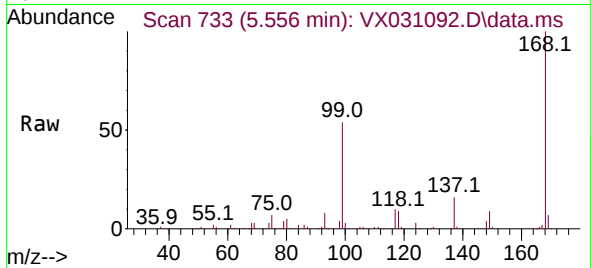




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX031092.D  
Acq: 03 Sep 2022 19:00

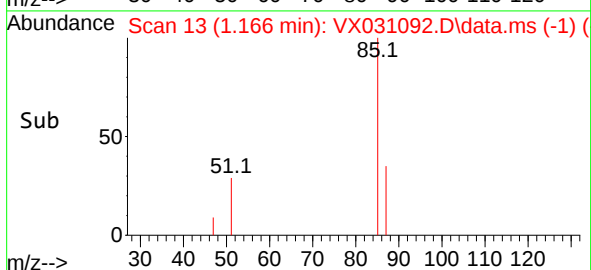
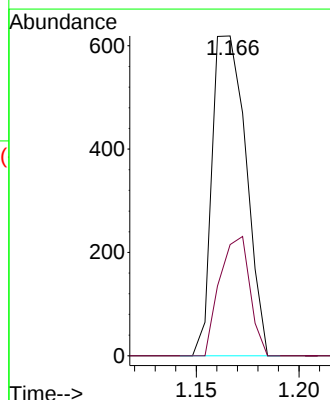
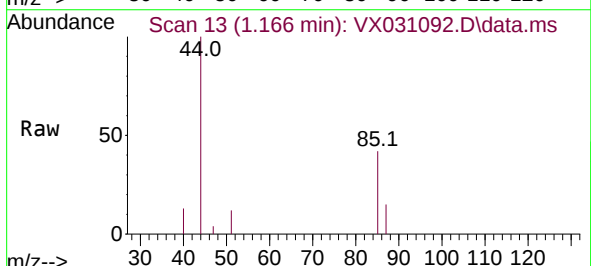
Instrument :  
MSVOA\_X  
ClientSampleId :  
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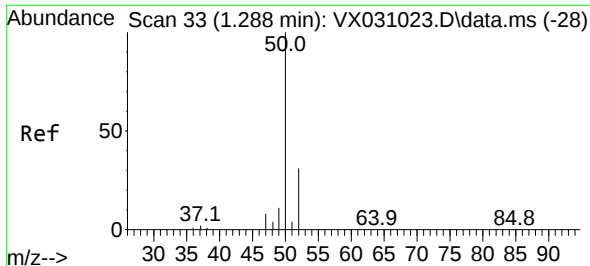
Tgt Ion:168 Resp: 213631  
Ion Ratio Lower Upper  
168 100  
99 53.6 44.0 66.0



#2  
Dichlorodifluoromethane  
Concen: 0.323 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. 0.000 min  
Lab File: VX031092.D  
Acq: 03 Sep 2022 19:00

Tgt Ion: 85 Resp: 710  
Ion Ratio Lower Upper  
85 100  
87 34.7 16.5 49.5

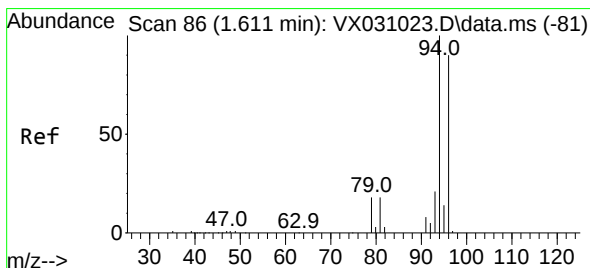
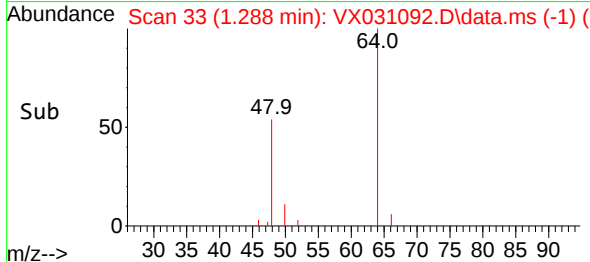
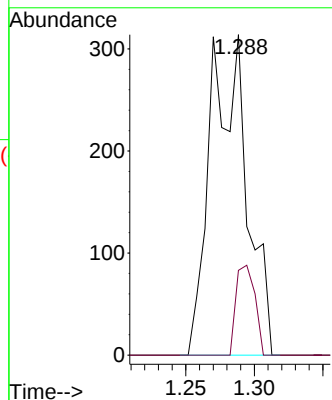
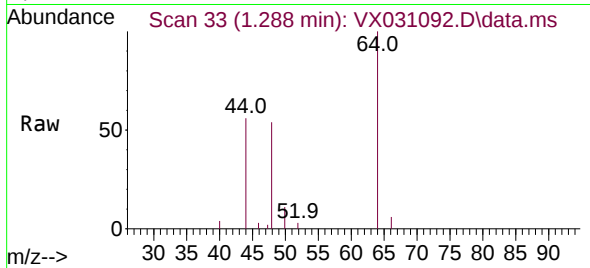




#3  
Chloromethane  
Concen: 0.973 ug/l  
RT: 1.288 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VX031092.D  
Acq: 03 Sep 2022 19:00

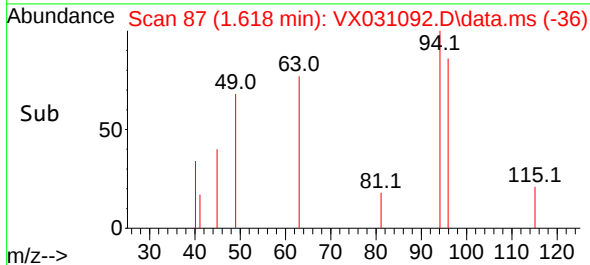
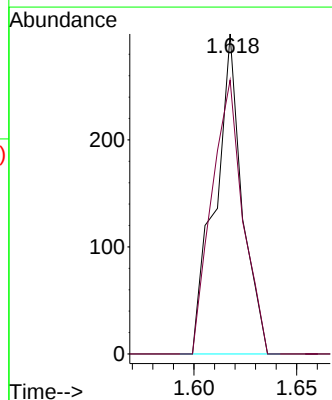
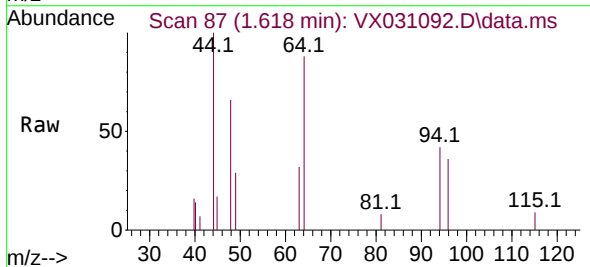
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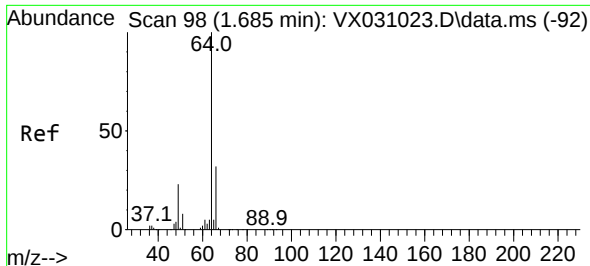
Tgt Ion: 50 Resp: 580  
Ion Ratio Lower Upper  
50 100  
52 26.4 26.3 39.5



#5  
Bromomethane  
Concen: 0.265 ug/l  
RT: 1.618 min Scan# 87  
Delta R.T. 0.013 min  
Lab File: VX031092.D  
Acq: 03 Sep 2022 19:00

Tgt Ion: 94 Resp: 272  
Ion Ratio Lower Upper  
94 100  
96 85.6 76.9 115.3

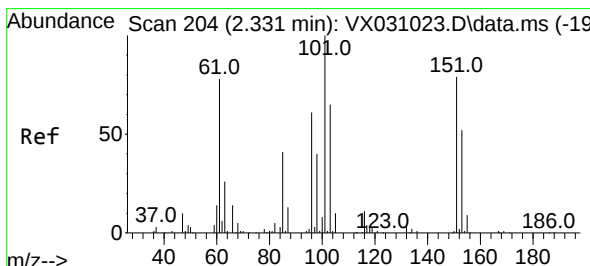
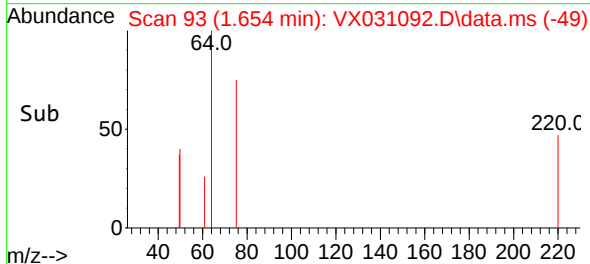
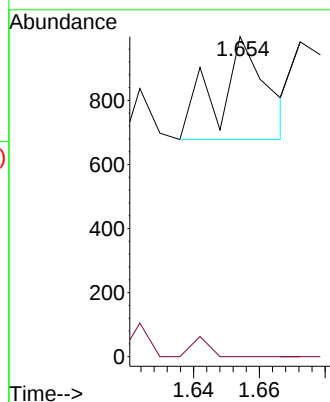
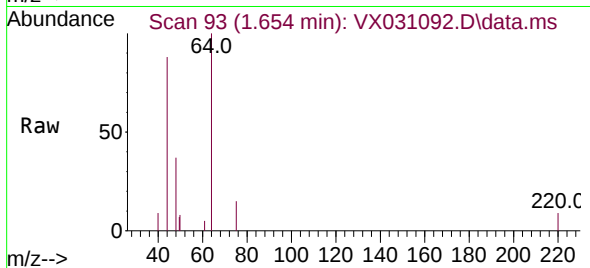




#6  
Chloroethane  
Concen: 1.927 ug/l  
RT: 1.654 min Scan# 91  
Delta R.T. -0.031 min  
Lab File: VX031092.D  
Acq: 03 Sep 2022 19:00

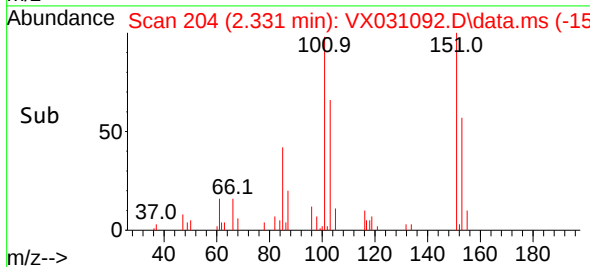
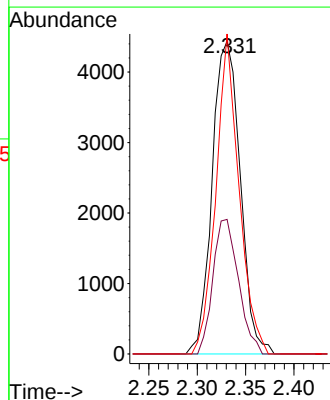
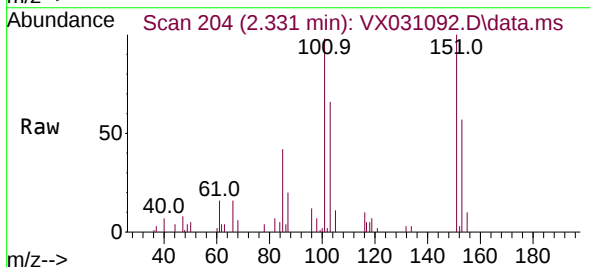
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE105D1-20220823

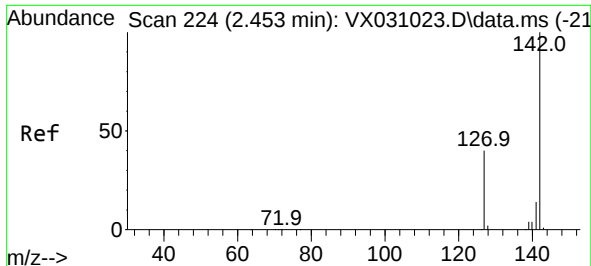
Tgt Ion: 64 Resp: 327  
Ion Ratio Lower Upper  
64 100  
66 0.0 27.2 40.8#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 3.485 ug/l  
RT: 2.331 min Scan# 204  
Delta R.T. 0.006 min  
Lab File: VX031092.D  
Acq: 03 Sep 2022 19:00

Tgt Ion: 101 Resp: 8956  
Ion Ratio Lower Upper  
101 100  
85 39.1 34.0 51.0  
151 84.1 59.4 89.0

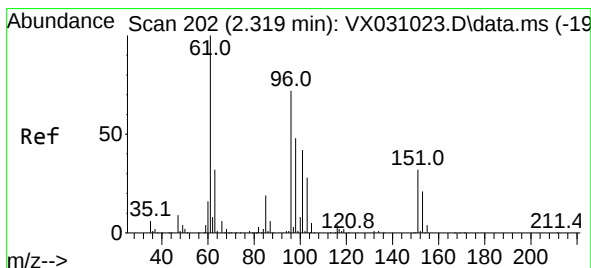
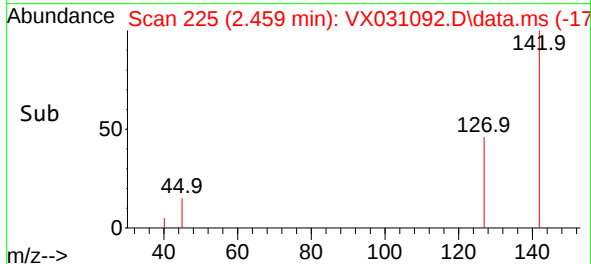
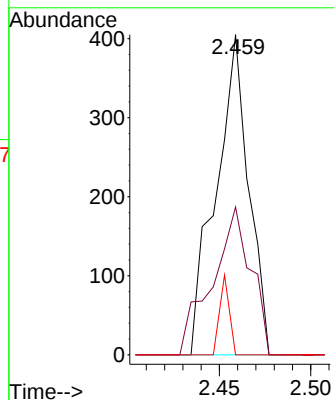
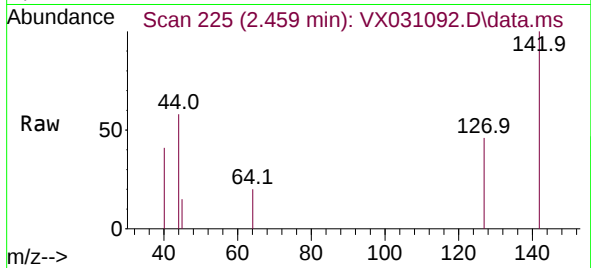




#10  
Methyl Iodide  
Concen: 3.100 ug/l  
RT: 2.459 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX031092.D  
Acq: 03 Sep 2022 19:00

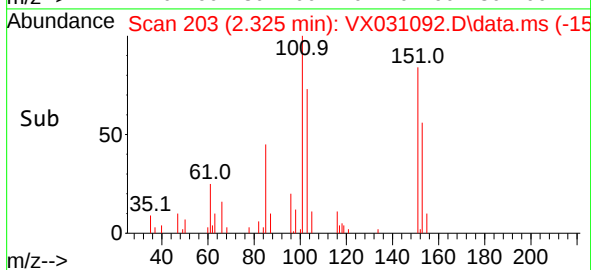
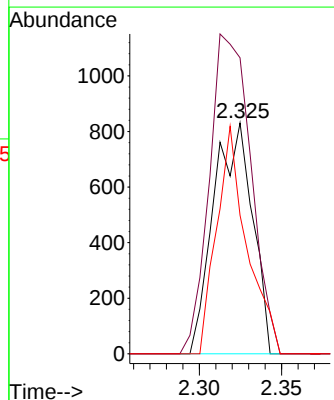
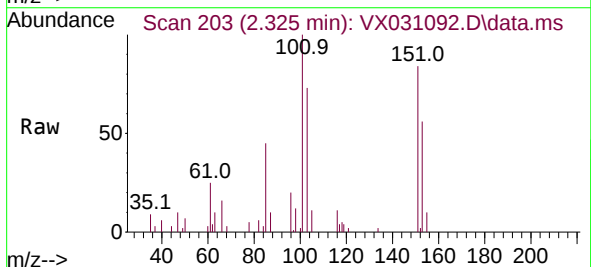
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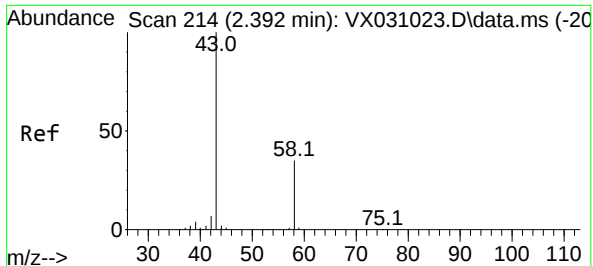
Tgt Ion:142 Resp: 504  
Ion Ratio Lower Upper  
142 100  
127 54.8 30.2 45.2#  
141 7.3 11.3 16.9#



#12  
1,1-Dichloroethene  
Concen: 0.548 ug/l  
RT: 2.325 min Scan# 203  
Delta R.T. 0.006 min  
Lab File: VX031092.D  
Acq: 03 Sep 2022 19:00

Tgt Ion: 96 Resp: 1361  
Ion Ratio Lower Upper  
96 100  
61 128.2 117.4 176.0  
98 60.0 52.2 78.4

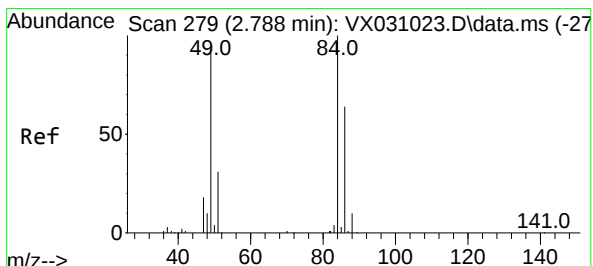
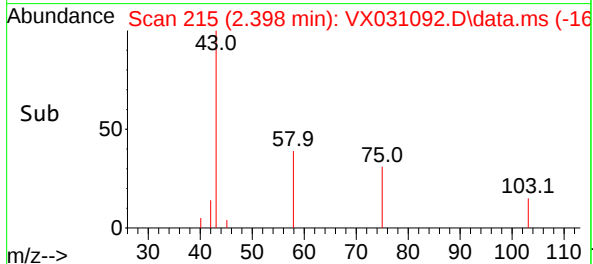
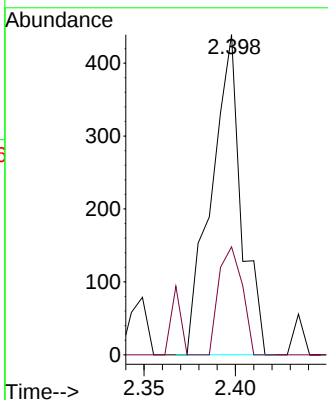
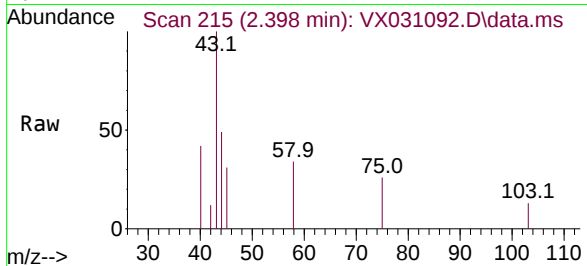




#16  
Acetone  
Concen: 0.472 ug/l  
RT: 2.398 min Scan# 214  
Delta R.T. 0.012 min  
Lab File: VX031092.D  
Acq: 03 Sep 2022 19:00

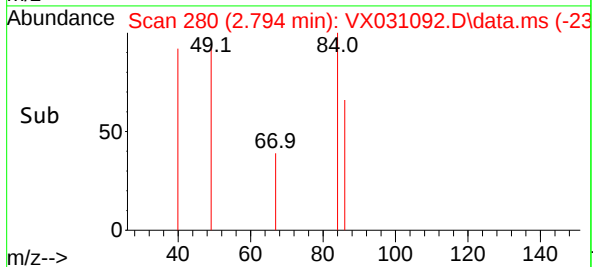
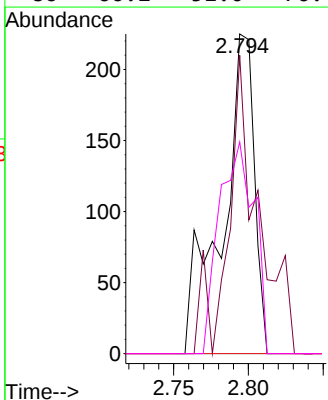
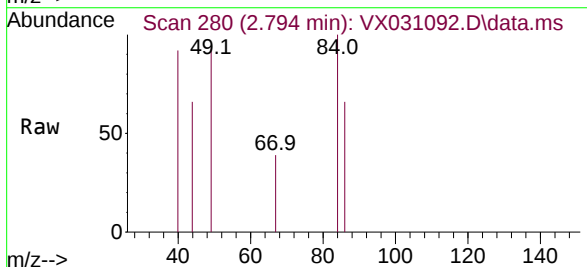
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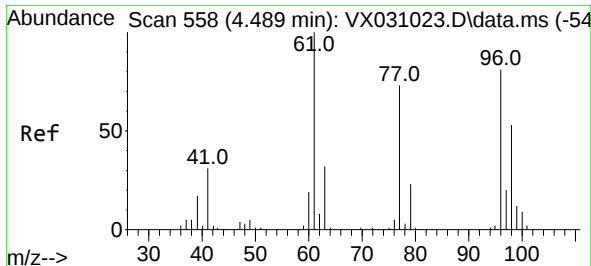
Tgt Ion: 43 Resp: 501  
Ion Ratio Lower Upper  
43 100  
58 33.7 27.7 41.5



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.794 min Scan# 280  
Delta R.T. 0.006 min  
Lab File: VX031092.D  
Acq: 03 Sep 2022 19:00

Tgt Ion: 84 Resp: 338  
Ion Ratio Lower Upper  
84 100  
49 93.3 93.8 140.6#  
51 0.0 29.4 44.0#  
86 66.2 51.0 76.4





#27

cis-1,2-Dichloroethene

Concen: 0.848 ug/l

RT: 4.495 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX031092.D

Acq: 03 Sep 2022 19:00

Instrument :

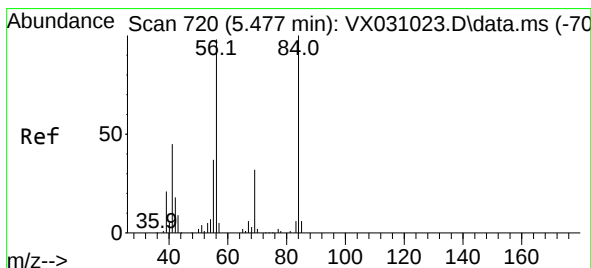
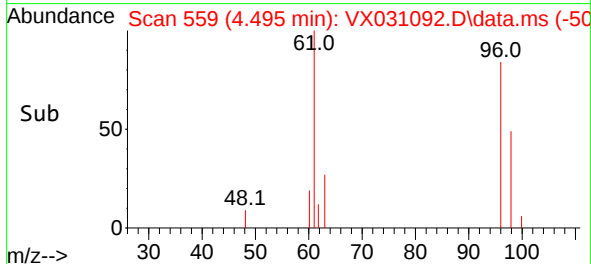
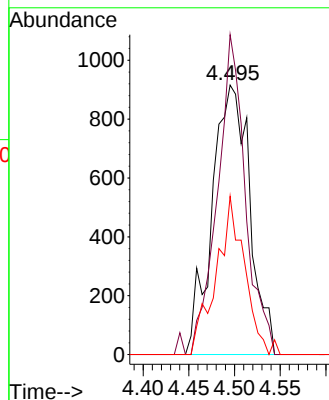
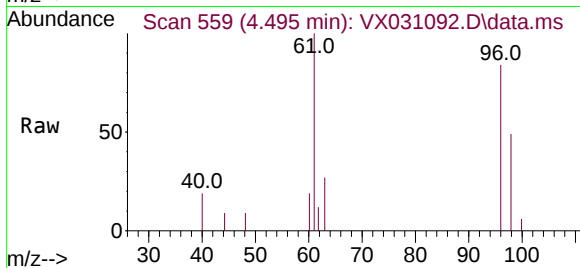
MSVOA\_X

ClientSampleId :

RE105D1-20220823

Tgt Ion: 96 Resp: 2626

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 88.3  | 0.0   | 270.0 |
| 98  | 44.6  | 0.0   | 127.8 |



#31

Cyclohexane

Concen: 0.874 ug/l

RT: 5.562 min Scan# 734

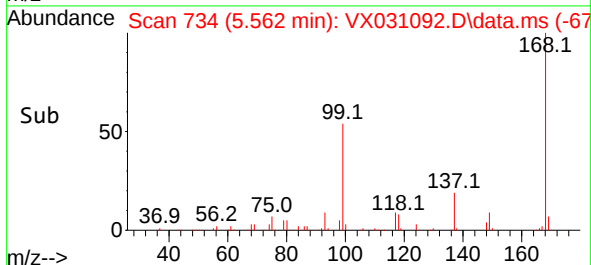
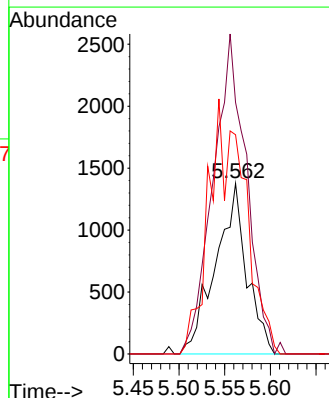
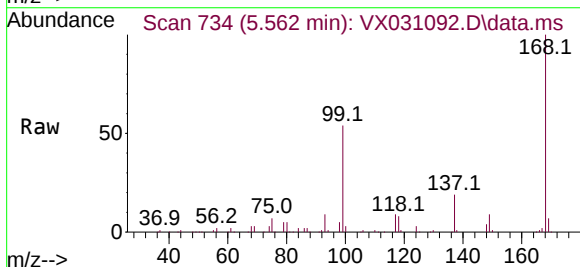
Delta R.T. 0.085 min

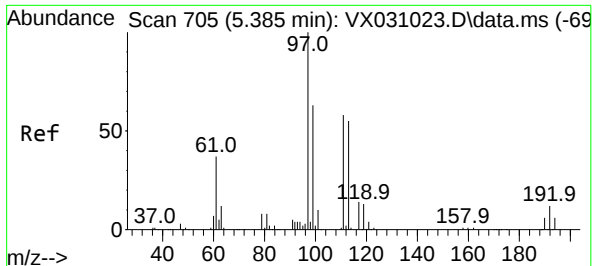
Lab File: VX031092.D

Acq: 03 Sep 2022 19:00

Tgt Ion: 56 Resp: 3282

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 56  | 100   |       |        |
| 69  | 147.5 | 25.4  | 38.0#  |
| 84  | 128.5 | 68.9  | 103.3# |





#32

1,1,1-Trichloroethane

Concen: 0.321 ug/l

RT: 5.391 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX031092.D

Acq: 03 Sep 2022 19:00

Instrument :

MSVOA\_X

ClientSampleId :

RE105D1-20220823

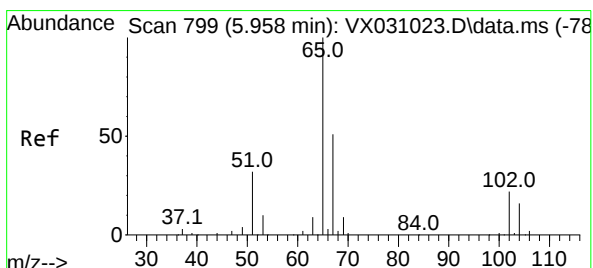
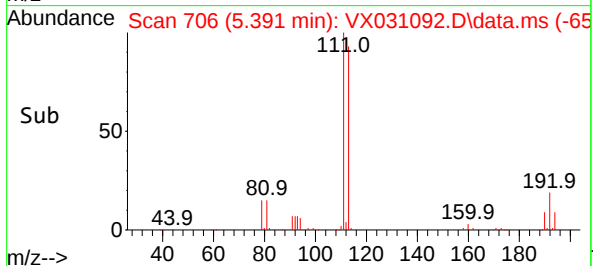
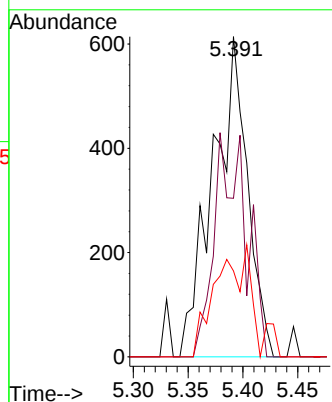
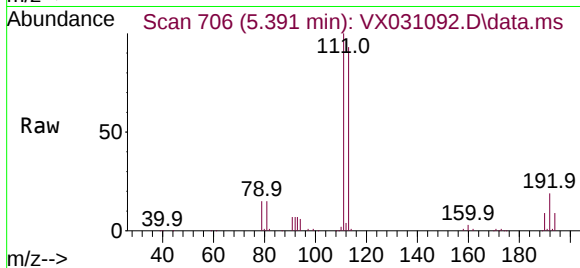
Tgt Ion: 97 Resp: 1351

Ion Ratio Lower Upper

97 100

99 0.0 51.4 77.0#

61 33.5 35.8 53.8#



#33

1,2-Dichloroethane-d4

Concen: 50.360 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.006 min

Lab File: VX031092.D

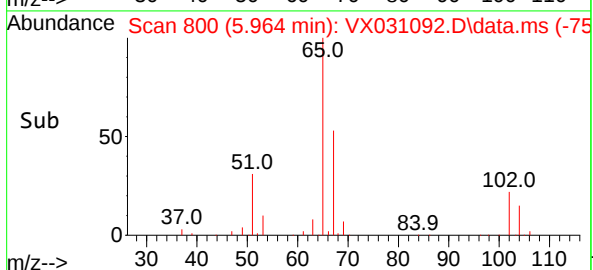
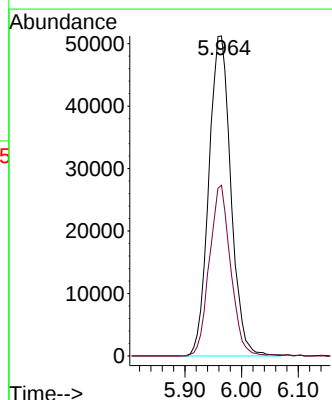
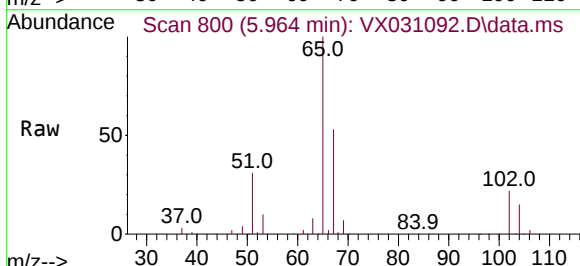
Acq: 03 Sep 2022 19:00

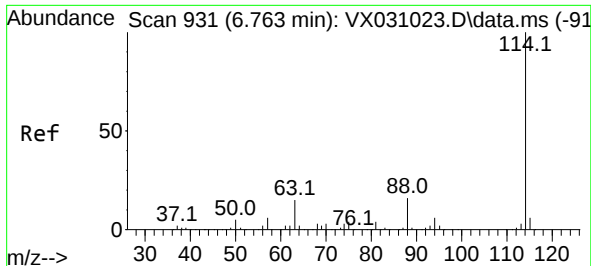
Tgt Ion: 65 Resp: 138429

Ion Ratio Lower Upper

65 100

67 51.2 0.0 109.6

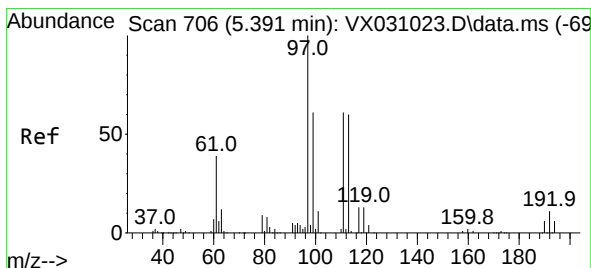
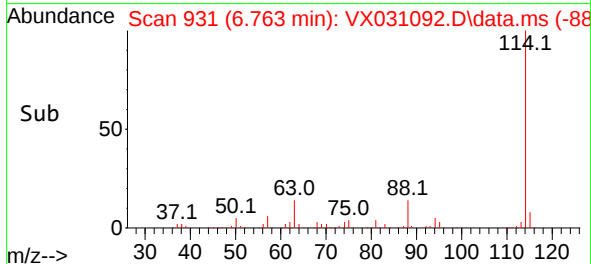
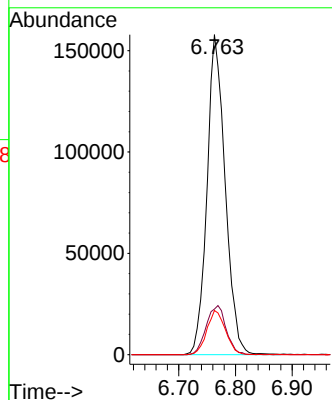
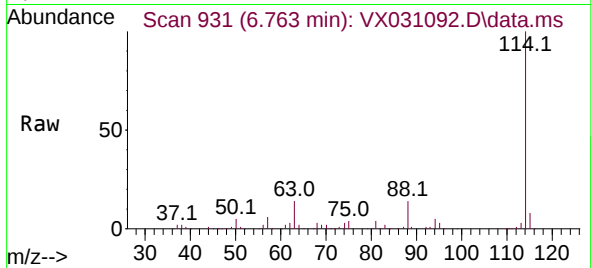




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VX031092.D  
Acq: 03 Sep 2022 19:00

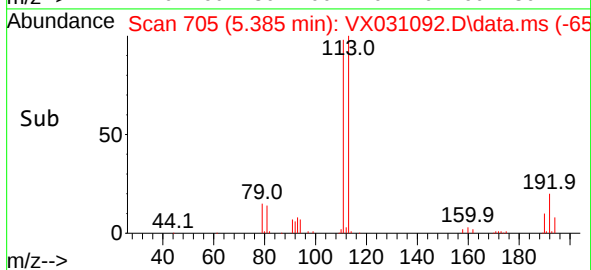
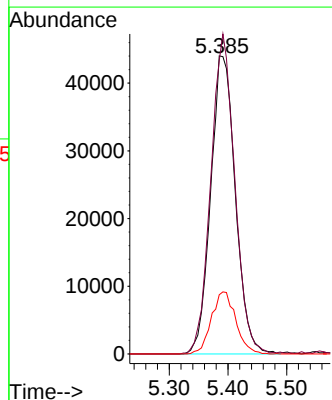
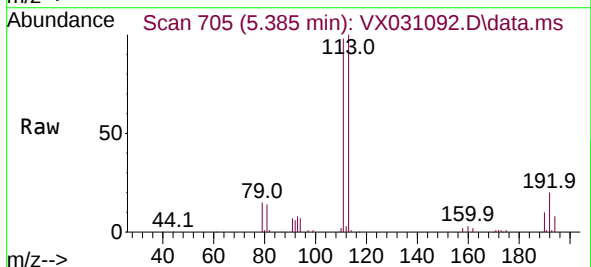
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE105D1-20220823

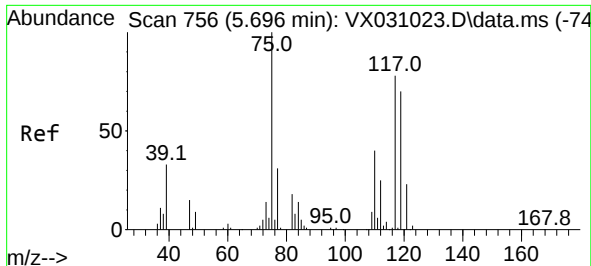
Tgt Ion:114 Resp: 351531  
Ion Ratio Lower Upper  
114 100  
63 14.3 0.0 38.4  
88 13.8 0.0 31.8



#35  
Dibromofluoromethane  
Concen: 50.100 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.006 min  
Lab File: VX031092.D  
Acq: 03 Sep 2022 19:00

Tgt Ion:113 Resp: 128524  
Ion Ratio Lower Upper  
113 100  
111 104.1 83.2 124.8  
192 20.6 14.8 22.2

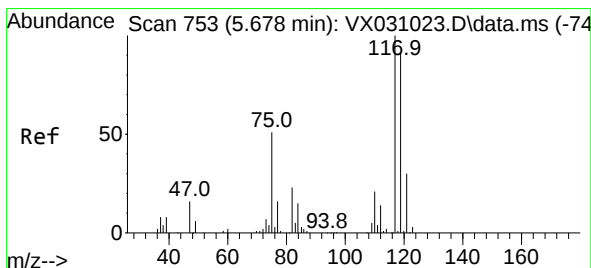
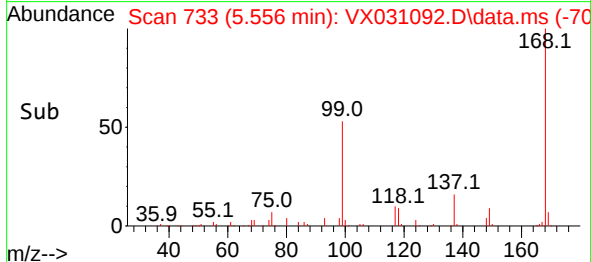
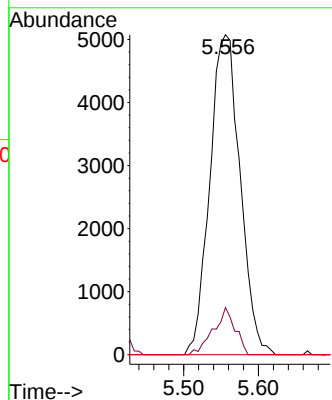
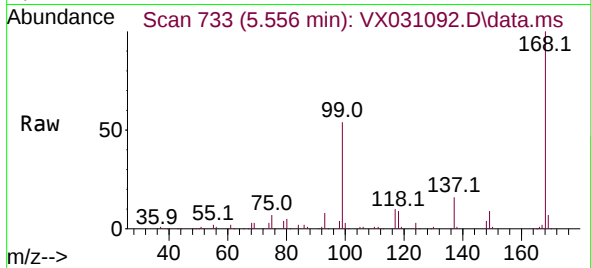




#36  
1,1-Dichloropropene  
Concen: 3.980 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.140 min  
Lab File: VX031092.D  
Acq: 03 Sep 2022 19:00

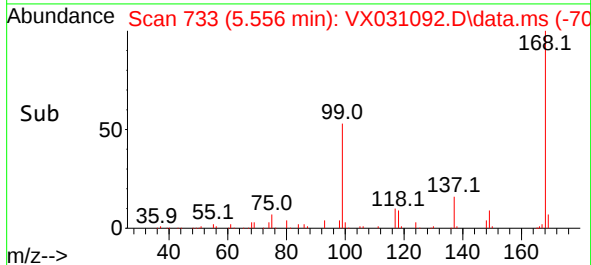
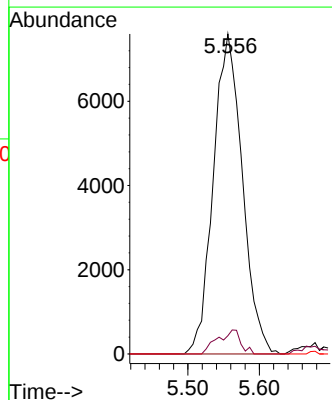
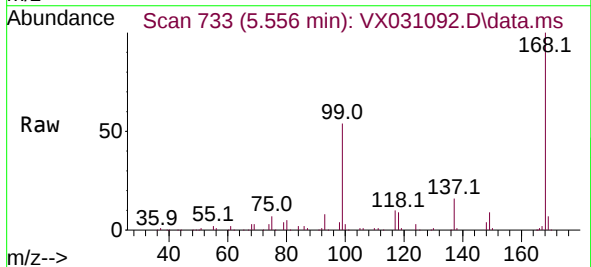
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE105D1-20220823

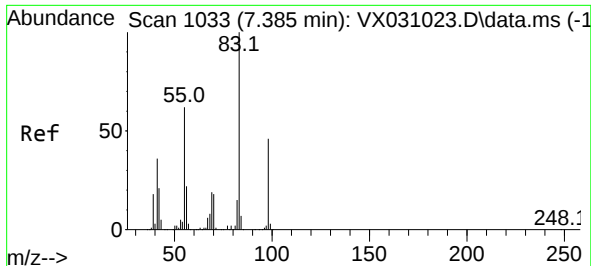
Tgt Ion: 75 Resp: 14301  
Ion Ratio Lower Upper  
75 100  
110 10.6 19.3 57.9#  
77 0.0 24.4 36.6#



#38  
Carbon Tetrachloride  
Concen: 5.740 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.128 min  
Lab File: VX031092.D  
Acq: 03 Sep 2022 19:00

Tgt Ion: 117 Resp: 21410  
Ion Ratio Lower Upper  
117 100  
119 5.7 74.1 111.1#  
121 0.0 25.8 38.8#

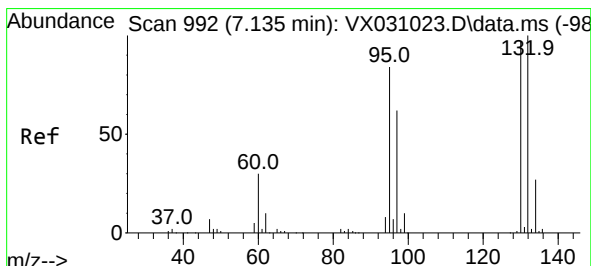
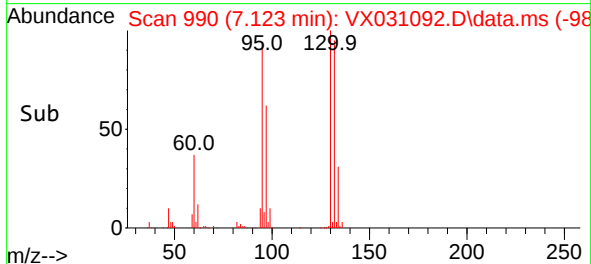
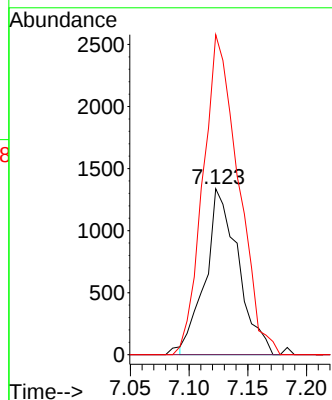
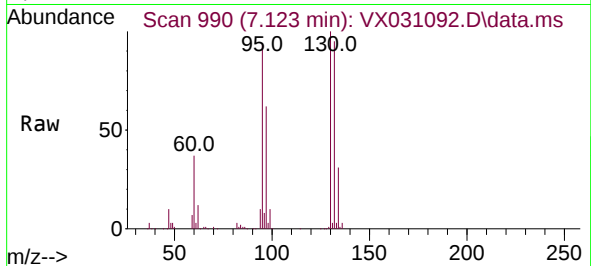




#39  
Methylcyclohexane  
Concen: 0.583 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. -0.262 min  
Lab File: VX031092.D  
Acq: 03 Sep 2022 19:00

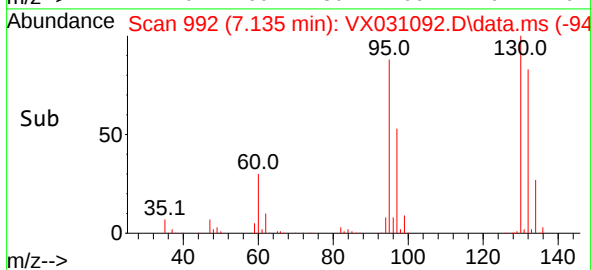
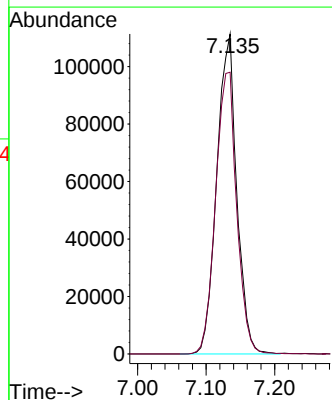
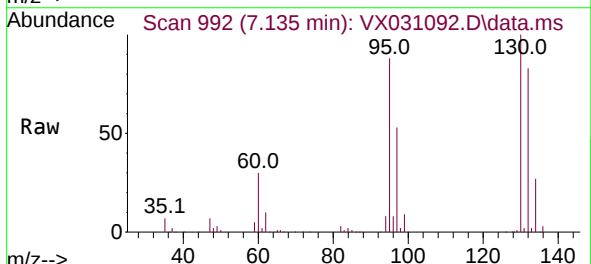
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE105D1-20220823

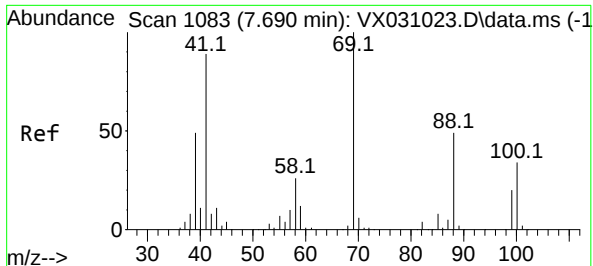
Tgt Ion: 83 Resp: 2597  
Ion Ratio Lower Upper  
83 100  
55 0.0 57.7 86.5#  
98 192.8 36.5 54.7#



#44  
Trichloroethene  
Concen: 68.856 ug/l  
RT: 7.135 min Scan# 992  
Delta R.T. 0.006 min  
Lab File: VX031092.D  
Acq: 03 Sep 2022 19:00

Tgt Ion:130 Resp: 224839  
Ion Ratio Lower Upper  
130 100  
95 88.0 0.0 194.8





#49

1,4-Dioxane

Concen: 13.039 ug/l

RT: 7.702 min Scan# 1085

Delta R.T. 0.025 min

Lab File: VX031092.D

Acq: 03 Sep 2022 19:00

Instrument :

MSVOA\_X

ClientSampleId :

RE105D1-20220823

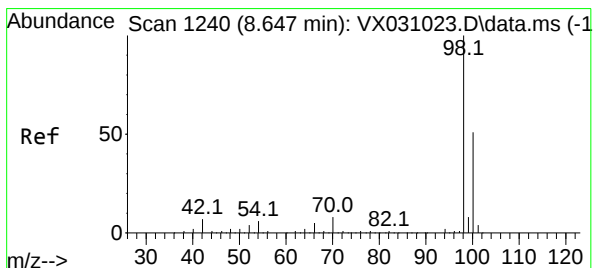
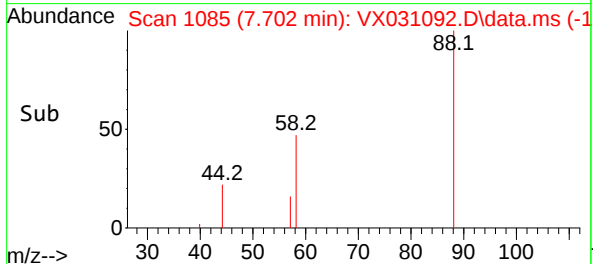
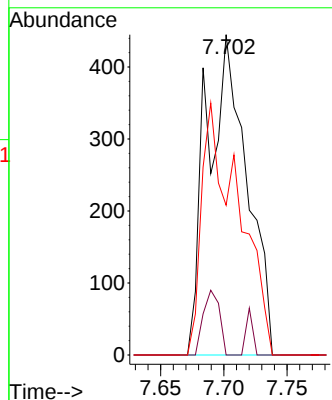
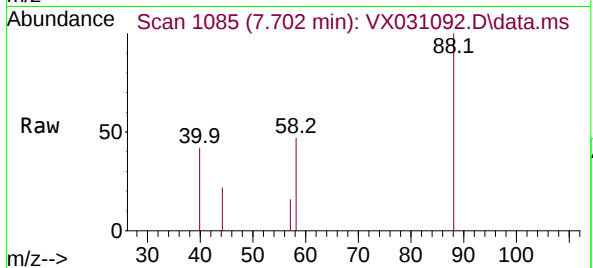
Tgt Ion: 88 Resp: 977

Ion Ratio Lower Upper

88 100

43 8.2 23.8 35.8#

58 72.8 53.8 80.6



#50

Toluene-d8

Concen: 48.212 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX031092.D

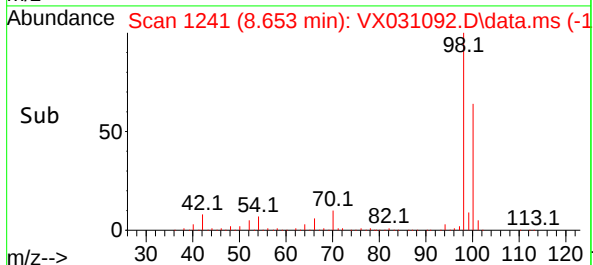
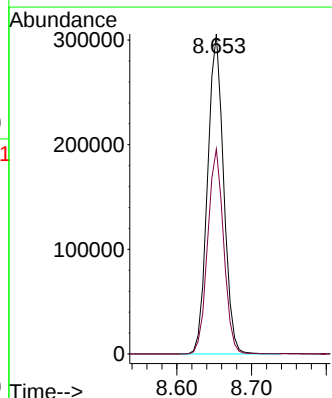
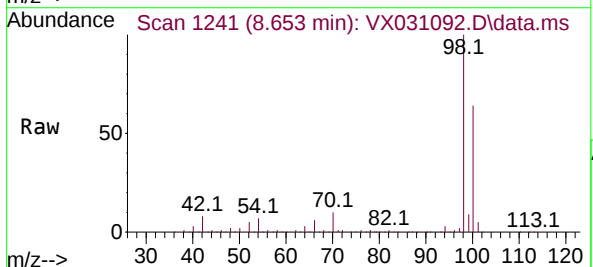
Acq: 03 Sep 2022 19:00

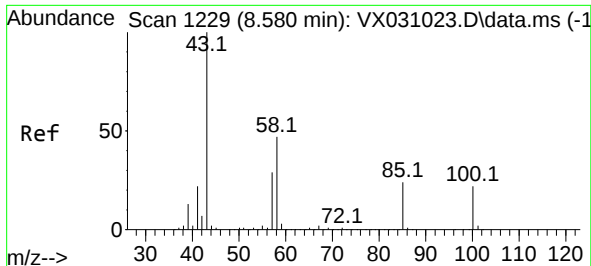
Tgt Ion: 98 Resp: 455188

Ion Ratio Lower Upper

98 100

100 63.8 52.3 78.5

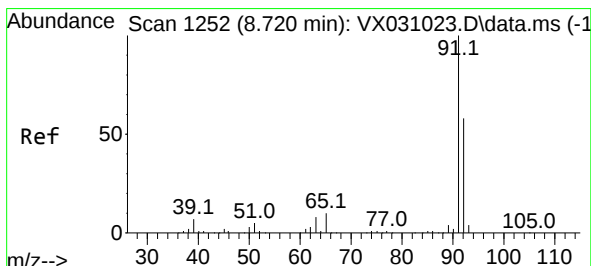
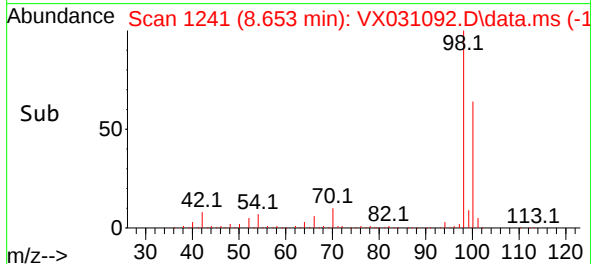
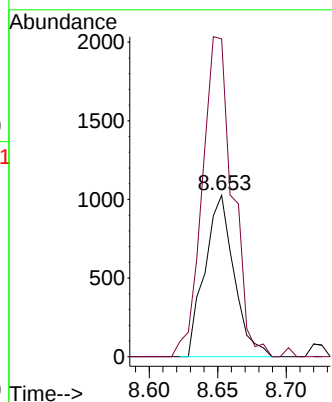
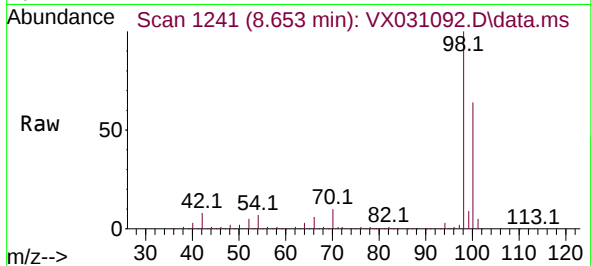




#51  
4-Methyl-2-Pentanone  
Concen: 0.484 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.073 min  
Lab File: VX031092.D  
Acq: 03 Sep 2022 19:00

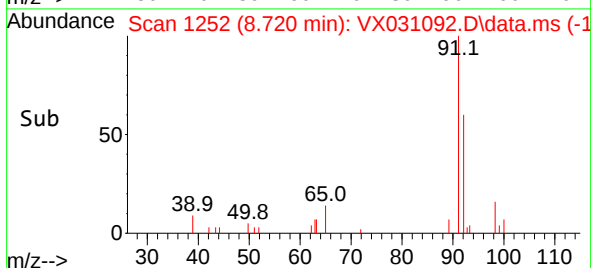
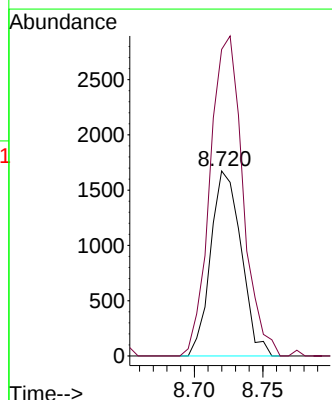
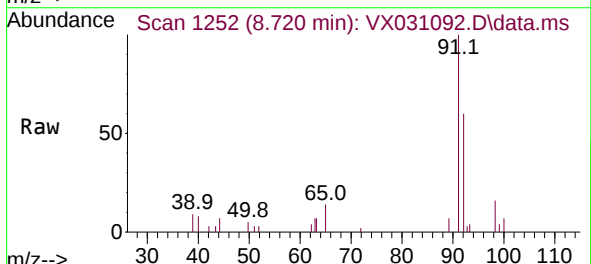
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE105D1-20220823

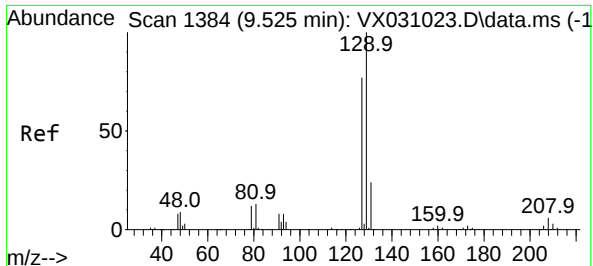
Tgt Ion: 43 Resp: 1518  
Ion Ratio Lower Upper  
43 100  
58 207.0 31.4 47.2#



#52  
Toluene  
Concen: 0.387 ug/l  
RT: 8.720 min Scan# 1252  
Delta R.T. -0.000 min  
Lab File: VX031092.D  
Acq: 03 Sep 2022 19:00

Tgt Ion: 92 Resp: 2592  
Ion Ratio Lower Upper  
92 100  
91 185.9 139.2 208.8

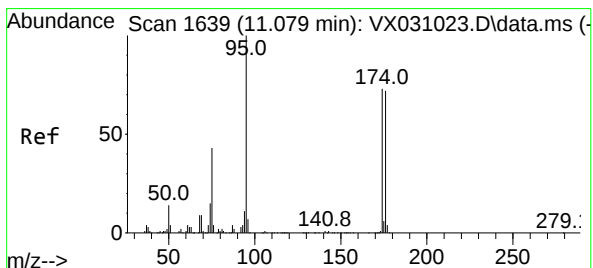
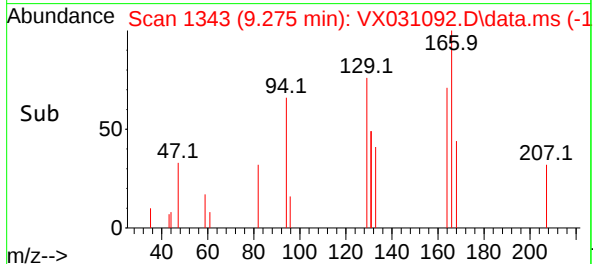
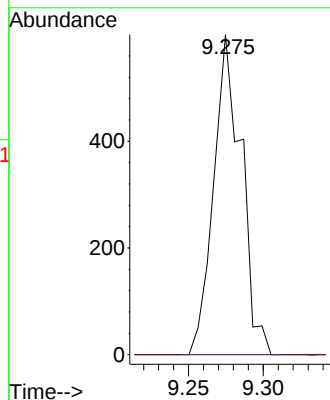
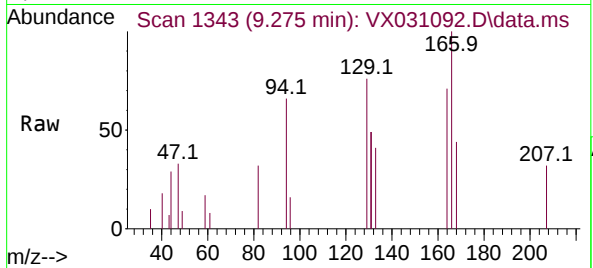




#60  
Dibromochloromethane  
Concen: 0.262 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. -0.250 min  
Lab File: VX031092.D  
Acq: 03 Sep 2022 19:00

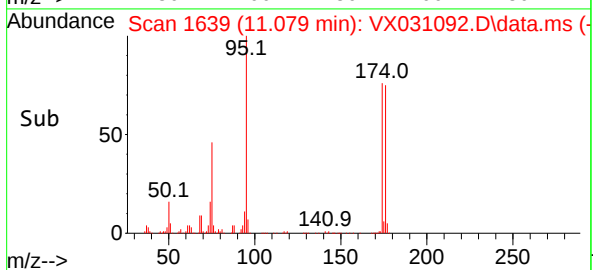
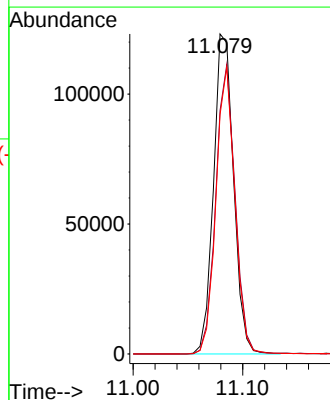
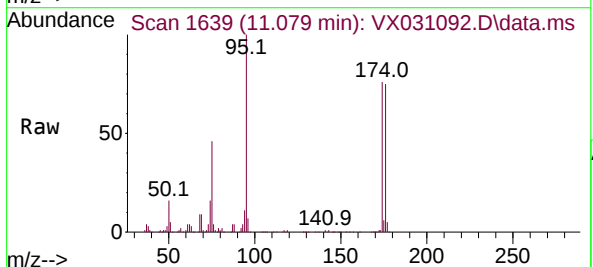
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE105D1-20220823

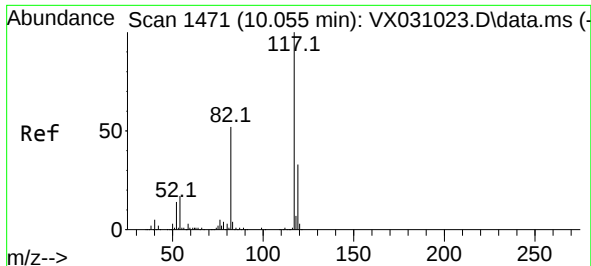
Tgt Ion:129 Resp: 774  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.5 115.5#



#62  
4-Bromofluorobenzene  
Concen: 46.964 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.006 min  
Lab File: VX031092.D  
Acq: 03 Sep 2022 19:00

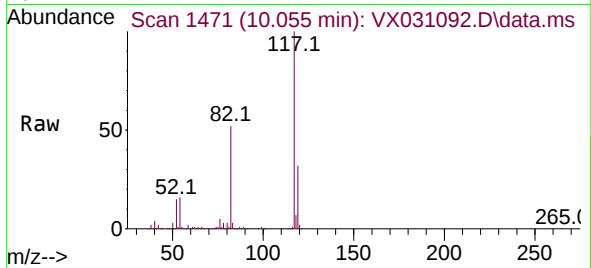
Tgt Ion: 95 Resp: 156610  
Ion Ratio Lower Upper  
95 100  
174 87.5 0.0 149.0  
176 84.8 0.0 146.0



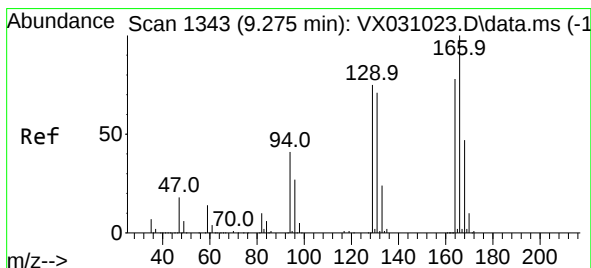
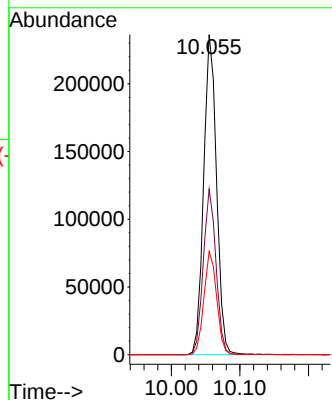
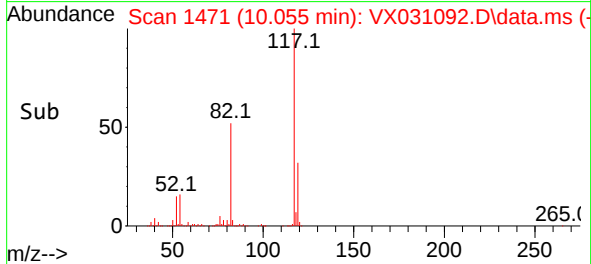


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX031092.D  
Acq: 03 Sep 2022 19:00

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE105D1-20220823

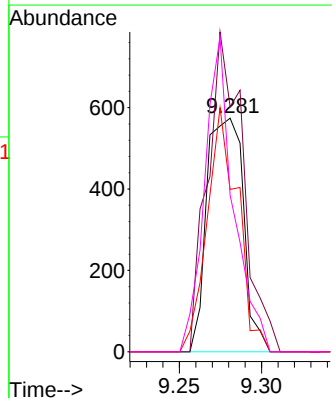
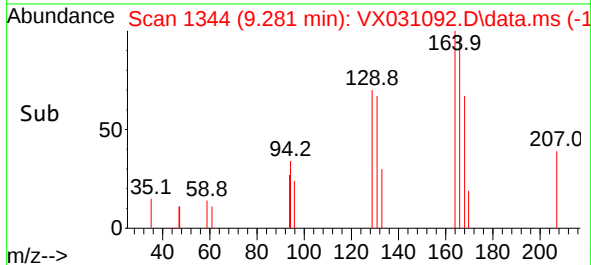
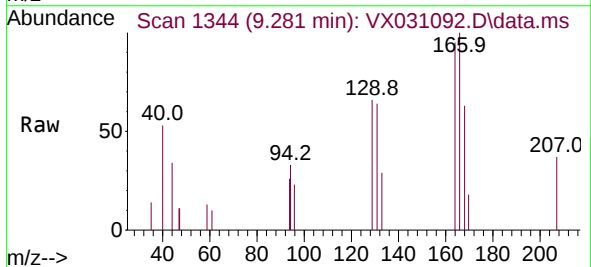


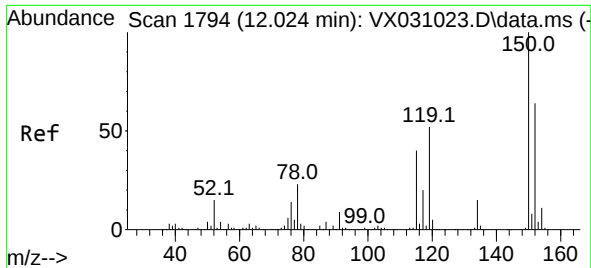
Tgt Ion:117 Resp: 310173  
Ion Ratio Lower Upper  
117 100  
82 51.7 42.7 64.1  
119 32.3 25.4 38.2



#64  
Tetrachloroethene  
Concen: 0.286 ug/l  
RT: 9.281 min Scan# 1344  
Delta R.T. 0.006 min  
Lab File: VX031092.D  
Acq: 03 Sep 2022 19:00

Tgt Ion:164 Resp: 886  
Ion Ratio Lower Upper  
164 100  
166 104.9 98.2 147.4  
129 69.5 80.8 121.2#  
131 67.1 75.5 113.3#

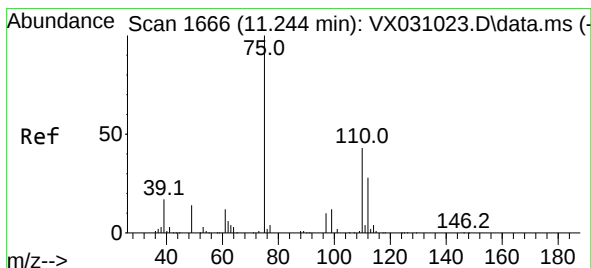
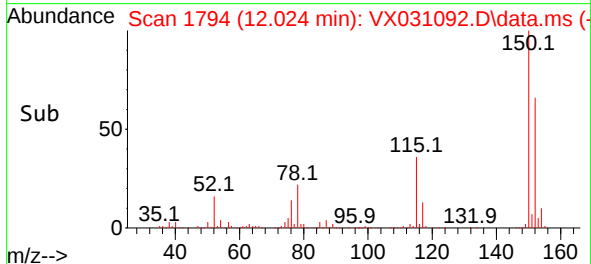
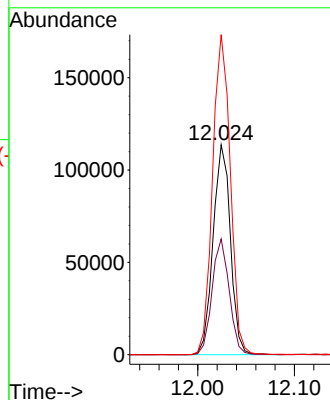
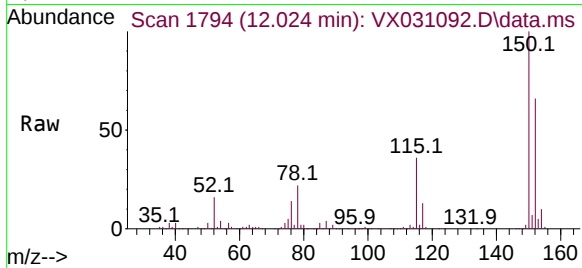




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: VX031092.D  
 Acq: 03 Sep 2022 19:00

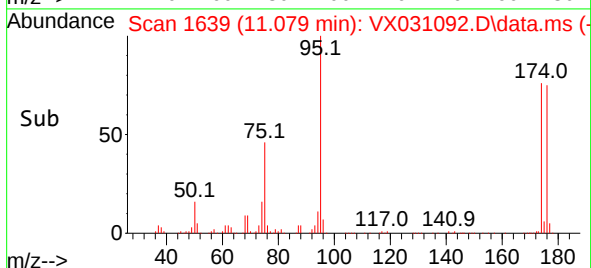
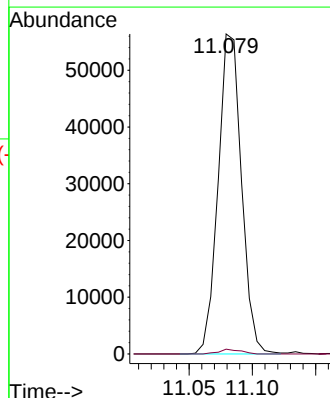
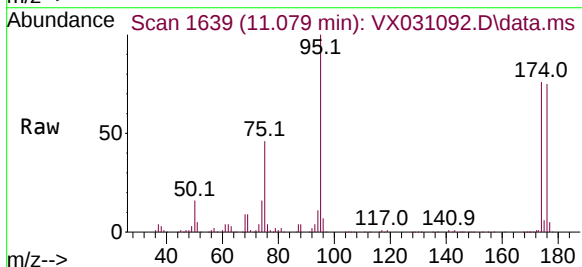
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE105D1-20220823

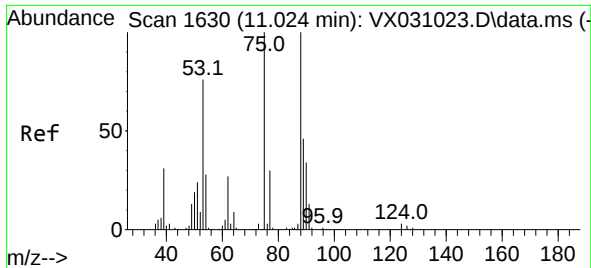
Tgt Ion:152 Resp: 141644  
 Ion Ratio Lower Upper  
 152 100  
 115 54.5 40.5 121.5  
 150 156.1 0.0 347.0



#76  
 1,2,3-Trichloropropane  
 Concen: 21.610 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.165 min  
 Lab File: VX031092.D  
 Acq: 03 Sep 2022 19:00

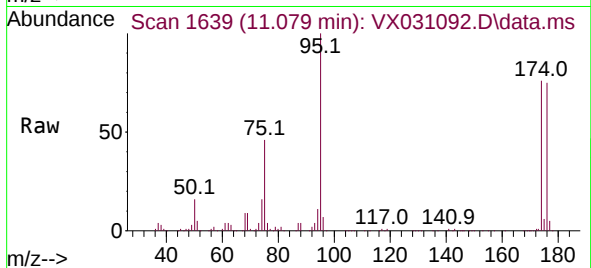
Tgt Ion: 75 Resp: 72358  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 19.8 59.3#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 67.915 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.055 min  
 Lab File: VX031092.D  
 Acq: 03 Sep 2022 19:00

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE105D1-20220823



Tgt Ion: 75 Resp: 72358  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 74.2 111.4#  
 89 0.2 34.8 52.2#

