

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX021724\  
 Data File : VX040296.D  
 Acq On : 17 Feb 2024 12:52  
 Operator : JC/MD  
 Sample : P1507-05DL 5X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE132D4-20240214DL

Quant Time: Feb 19 03:55:50 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X020924W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 12 00:21:14 2024  
 Response via : Initial Calibration

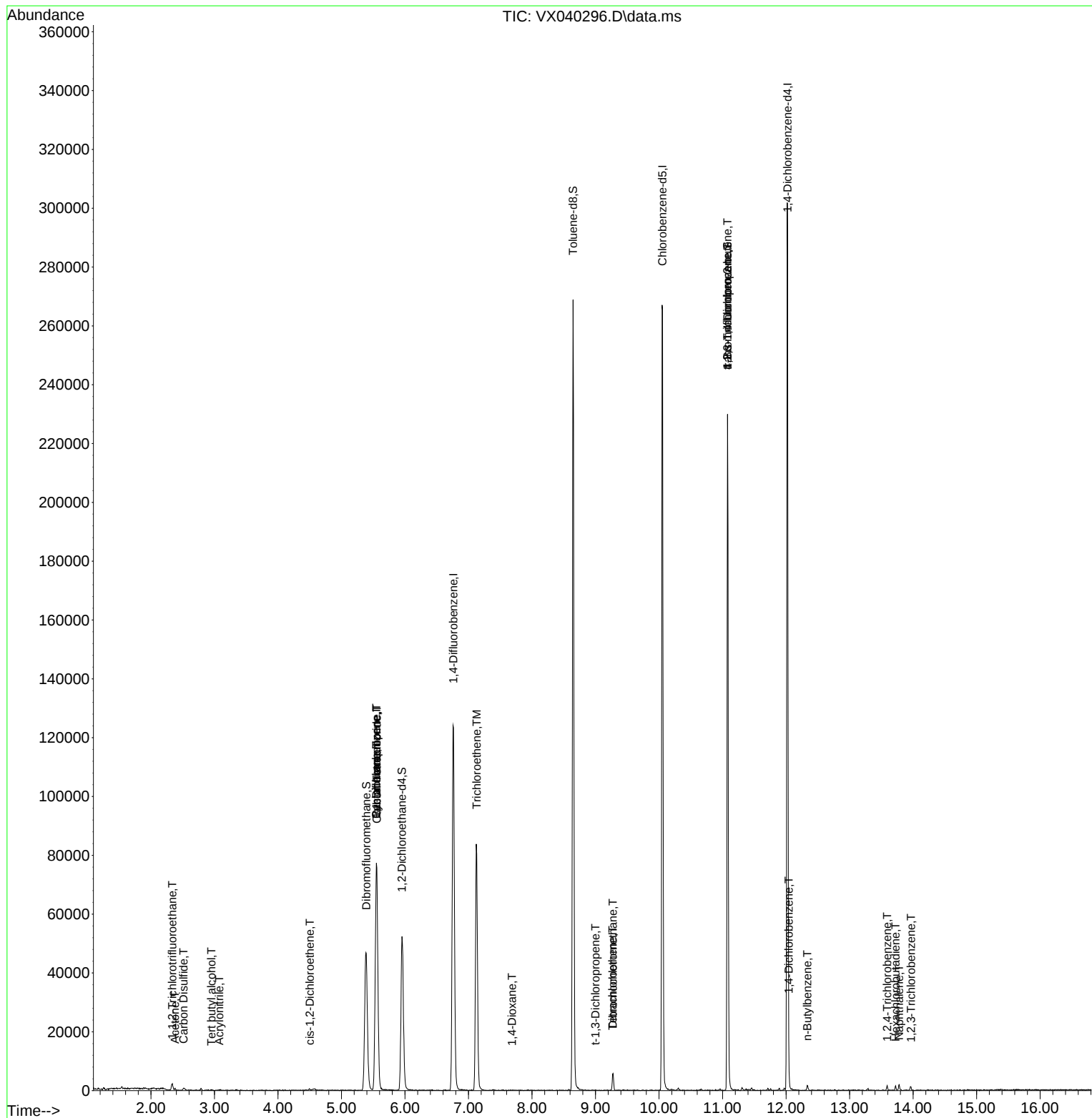
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 5.550          | 168  | 73667      | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 128531     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 121669     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 61746      | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 51329      | 46.835    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 93.680%   |        |          |
| 35) Dibromofluoromethane      | 5.391          | 113  | 41977      | 46.766    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 93.540%   |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 158466     | 47.196    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 94.400%   |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 60035      | 43.841    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 87.680%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 9) 1,1,2-Trichlorotrifluo...  | 2.337          | 101  | 812        | 1.039     | ug/l   | 92       |
| 11) Tert butyl alcohol        | 2.953          | 59   | 147        | 0.689     | ug/l # | 78       |
| 15) Acrylonitrile             | 3.075          | 53   | 120        | 0.251     | ug/l # | 43       |
| 16) Acetone                   | 2.380          | 43   | 495        | 1.100     | ug/l   | 93       |
| 17) Carbon Disulfide          | 2.514          | 76   | 638        | 0.321     | ug/l # | 76       |
| 20) Methylene Chloride        | 2.788          | 84   | 217        | Below Cal | #      | 71       |
| 27) cis-1,2-Dichloroethene    | 4.501          | 96   | 243        | 0.249     | ug/l   | 76       |
| 31) Cyclohexane               | 5.550          | 56   | 1672       | 1.279     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.550          | 75   | 5823       | 4.631     | ug/l # | 52       |
| 38) Carbon Tetrachloride      | 5.556          | 117  | 7312       | 6.116     | ug/l # | 14       |
| 44) Trichloroethene           | 7.129          | 130  | 31440      | 32.415    | ug/l   | 95       |
| 49) 1,4-Dioxane               | 7.683          | 88   | 39         | 1.604     | ug/l # | 12       |
| 53) t-1,3-Dichloropropene     | 9.000          | 75   | 20         | 1.971     | ug/l # | 43       |
| 60) Dibromochloromethane      | 9.275          | 129  | 1008       | 1.007     | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.269          | 164  | 1041       | 1.221     | ug/l   | 94       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 31979      | 25.575    | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 31979      | 70.270    | ug/l # | 5        |
| 88) 1,4-Dichlorobenzene       | 12.042         | 146  | 456        | 0.212     | ug/l # | 1        |
| 89) n-Butylbenzene            | 12.335         | 91   | 748        | 0.205     | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 13.591         | 180  | 616        | 0.457     | ug/l   | 71       |
| 94) Hexachlorobutadiene       | 13.725         | 225  | 316        | 0.587     | ug/l   | 84       |
| 95) Naphthalene               | 13.780         | 128  | 1594       | 0.374     | ug/l # | 94       |
| 96) 1,2,3-Trichlorobenzene    | 13.969         | 180  | 489        | 0.380     | ug/l   | 78       |
| -----                         |                |      |            |           |        |          |

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

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Quant Title : SW846 8260  
QLast Update : Mon Feb 12 00:21:14 2024  
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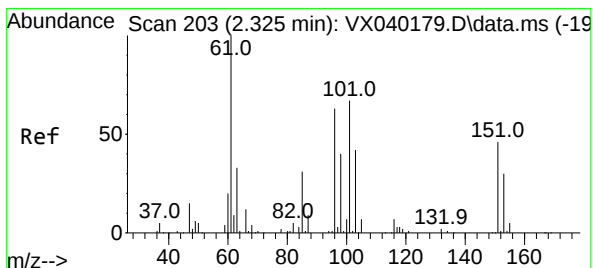
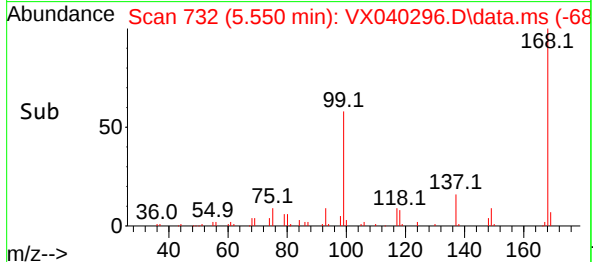
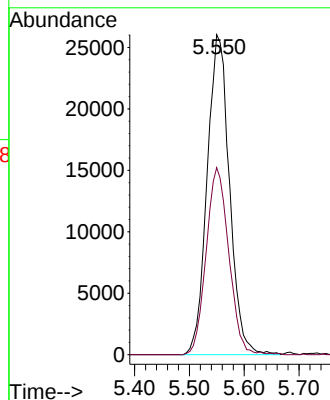
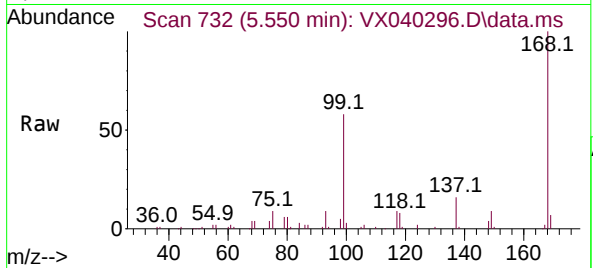




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX040296.D  
Acq: 17 Feb 2024 12:52

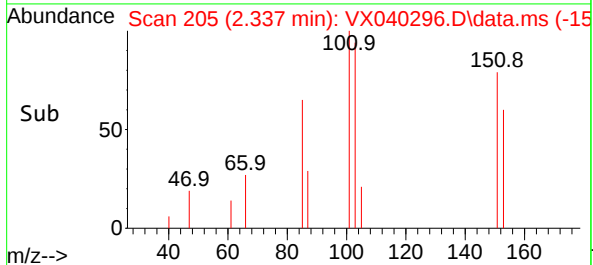
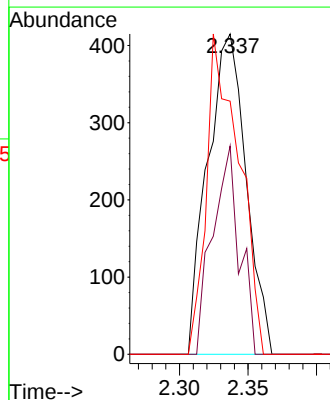
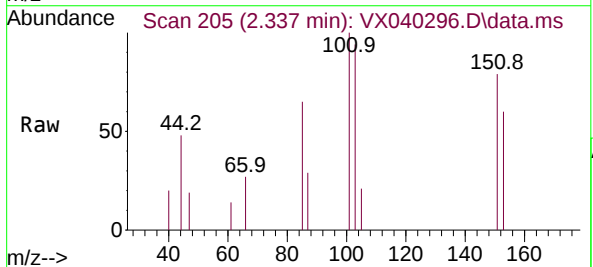
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20240214DL

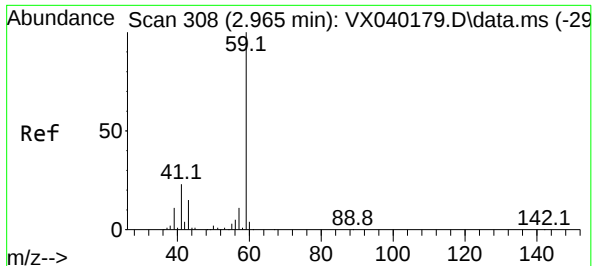
Tgt Ion:168 Resp: 73667  
Ion Ratio Lower Upper  
168 100  
99 58.5 56.6 85.0



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 1.039 ug/l  
RT: 2.337 min Scan# 205  
Delta R.T. 0.012 min  
Lab File: VX040296.D  
Acq: 17 Feb 2024 12:52

Tgt Ion:101 Resp: 812  
Ion Ratio Lower Upper  
101 100  
85 45.6 37.0 55.6  
151 84.2 58.6 87.8





#11

Tert butyl alcohol

Concen: 0.689 ug/l

RT: 2.953 min Scan# 308

Delta R.T. -0.012 min

Lab File: VX040296.D

Acq: 17 Feb 2024 12:52

Instrument :

MSVOA\_X

ClientSampleId :

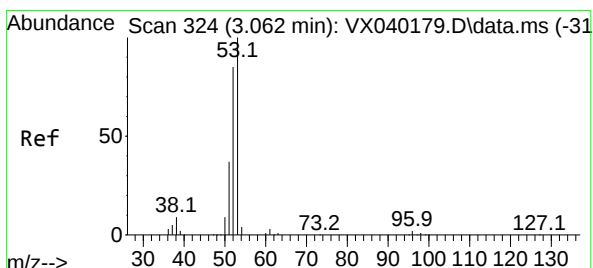
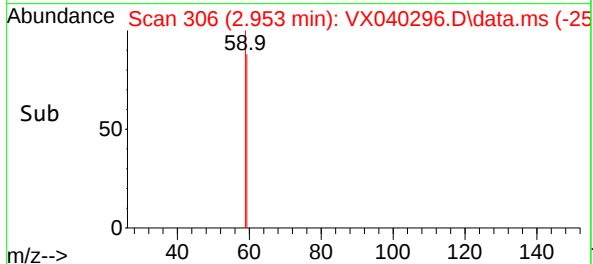
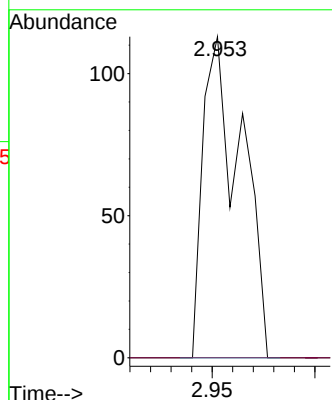
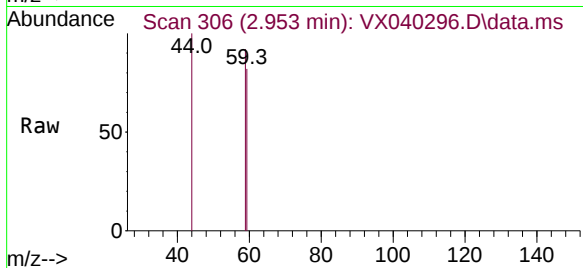
RE132D4-20240214DL

Tgt Ion: 59 Resp: 147

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#15

Acrylonitrile

Concen: 0.251 ug/l

RT: 3.075 min Scan# 326

Delta R.T. 0.012 min

Lab File: VX040296.D

Acq: 17 Feb 2024 12:52

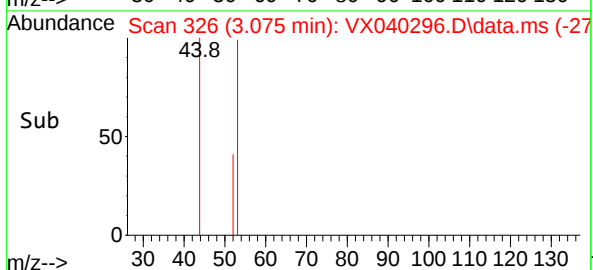
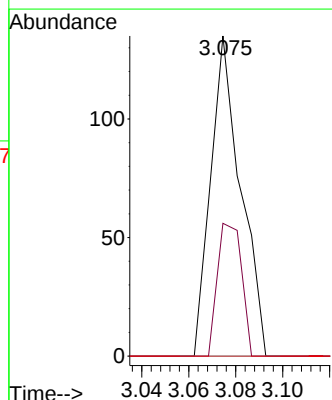
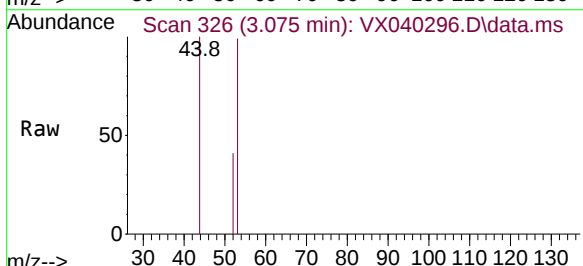
Tgt Ion: 53 Resp: 120

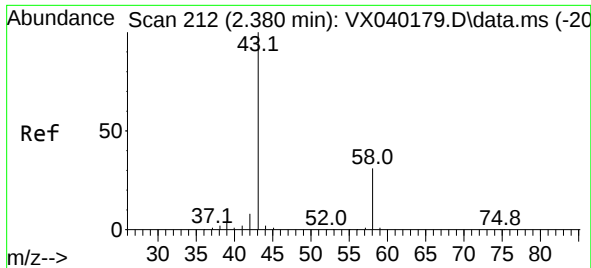
Ion Ratio Lower Upper

53 100

52 33.3 66.0 99.0#

51 0.0 29.8 44.6#

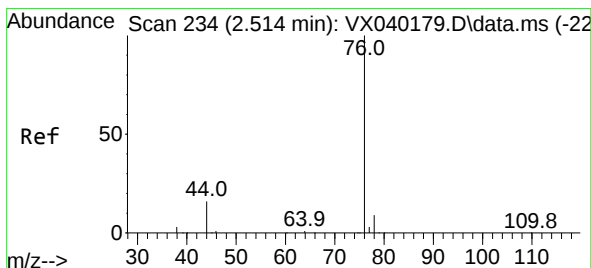
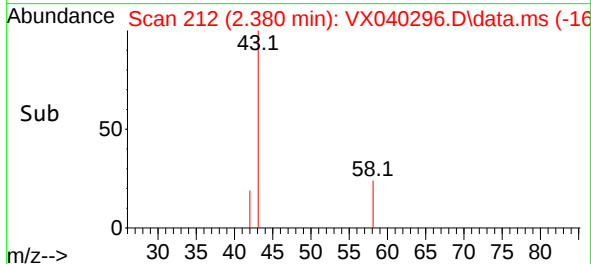
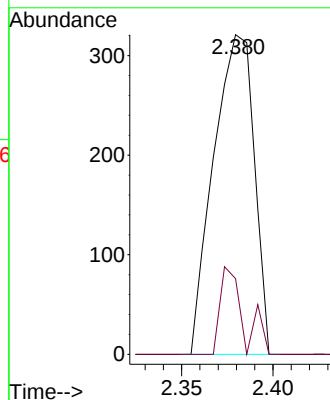
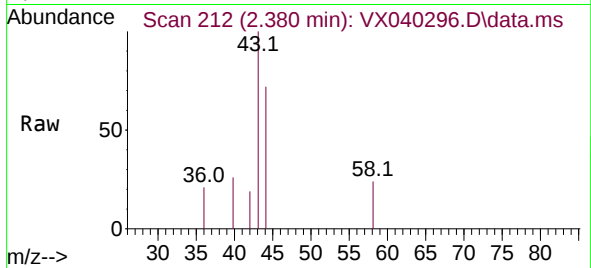




#16  
Acetone  
Concen: 1.100 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. 0.000 min  
Lab File: VX040296.D  
Acq: 17 Feb 2024 12:52

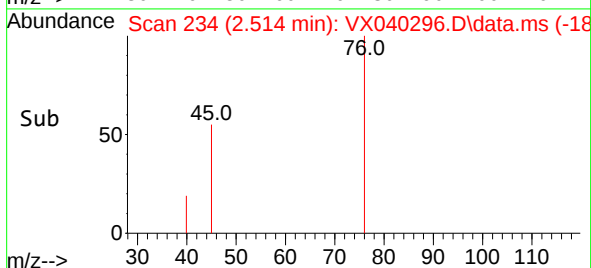
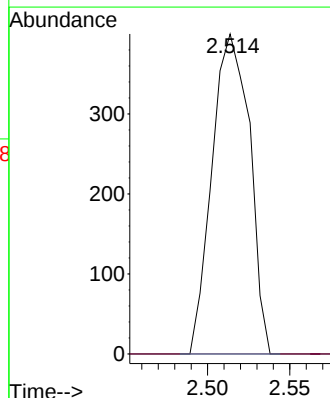
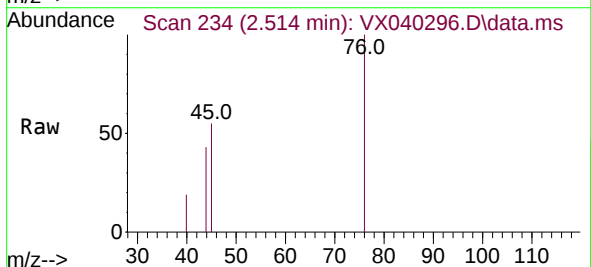
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20240214DL

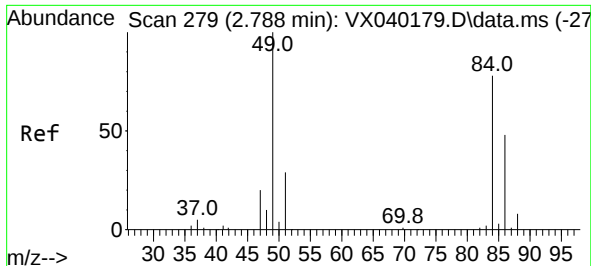
Tgt Ion: 43 Resp: 495  
Ion Ratio Lower Upper  
43 100  
58 23.7 21.9 32.9



#17  
Carbon Disulfide  
Concen: 0.321 ug/l  
RT: 2.514 min Scan# 234  
Delta R.T. 0.006 min  
Lab File: VX040296.D  
Acq: 17 Feb 2024 12:52

Tgt Ion: 76 Resp: 638  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.0 10.6#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.788 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX040296.D

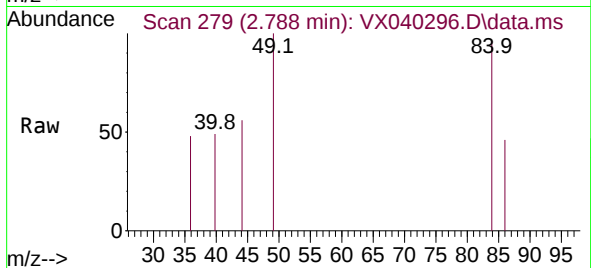
Acq: 17 Feb 2024 12:52

Instrument :

MSVOA\_X

ClientSampleId :

RE132D4-20240214DL



Tgt Ion: 84 Resp: 217

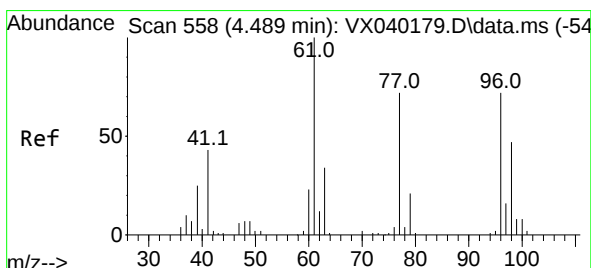
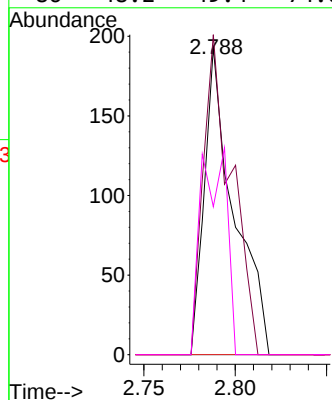
Ion Ratio Lower Upper

84 100

49 104.1 103.6 155.4

51 0.0 33.8 50.6#

86 48.2 49.4 74.0#



#27

cis-1,2-Dichloroethene

Concen: 0.249 ug/l

RT: 4.501 min Scan# 560

Delta R.T. 0.012 min

Lab File: VX040296.D

Acq: 17 Feb 2024 12:52

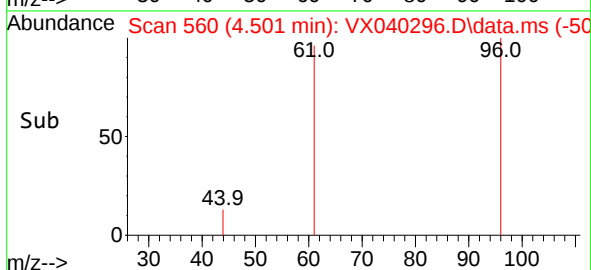
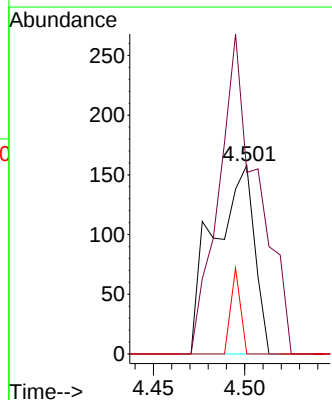
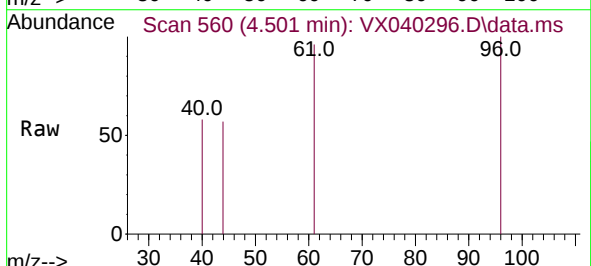
Tgt Ion: 96 Resp: 243

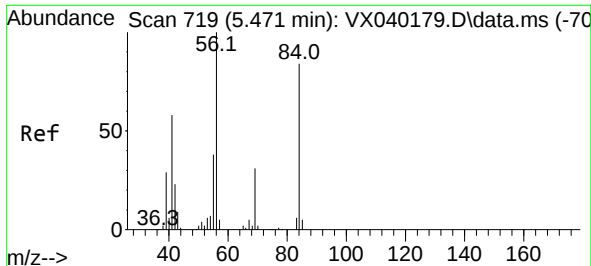
Ion Ratio Lower Upper

96 100

61 163.4 0.0 312.2

98 10.7 0.0 129.0

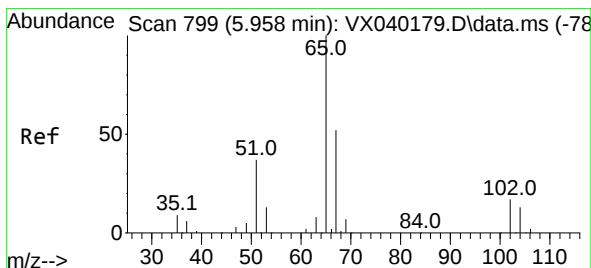
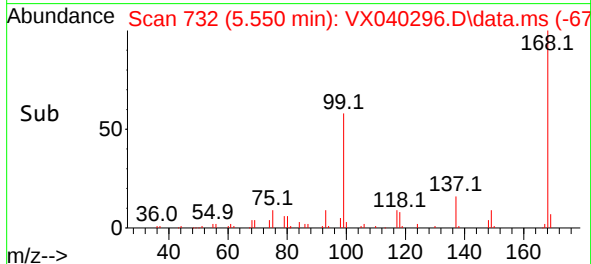
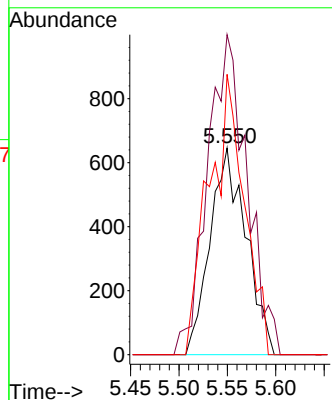
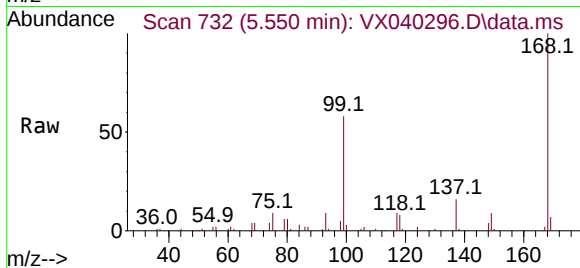




#31  
Cyclohexane  
Concen: 1.279 ug/l  
RT: 5.550 min Scan# 719  
Delta R.T. 0.079 min  
Lab File: VX040296.D  
Acq: 17 Feb 2024 12:52

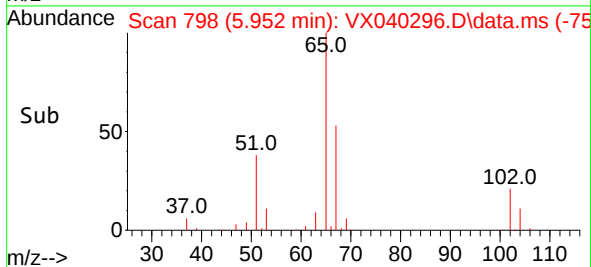
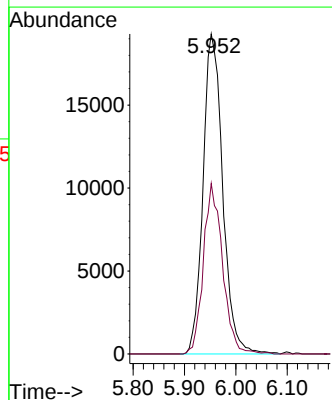
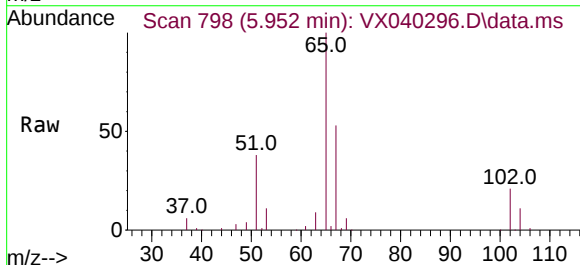
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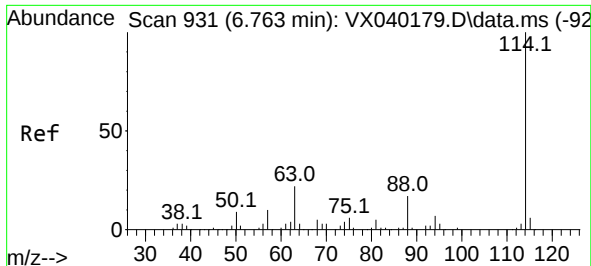
Tgt Ion: 56 Resp: 1672  
Ion Ratio Lower Upper  
56 100  
69 154.8 23.4 35.2#  
84 135.6 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 46.835 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.006 min  
Lab File: VX040296.D  
Acq: 17 Feb 2024 12:52

Tgt Ion: 65 Resp: 51329  
Ion Ratio Lower Upper  
65 100  
67 51.9 0.0 100.2

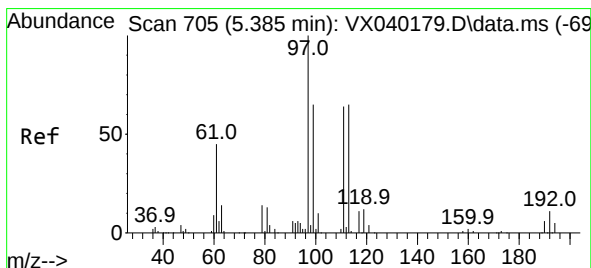
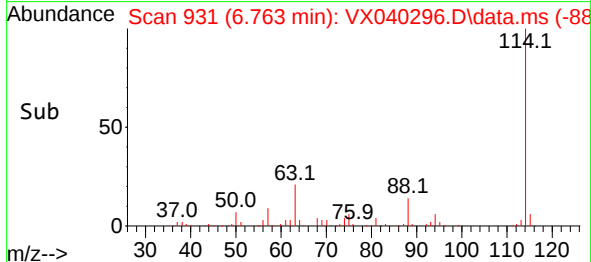
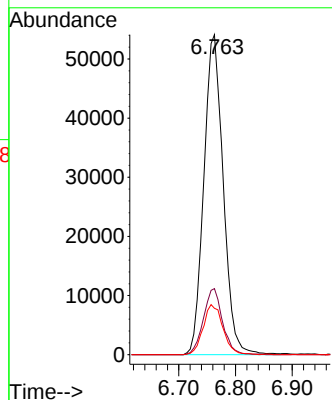
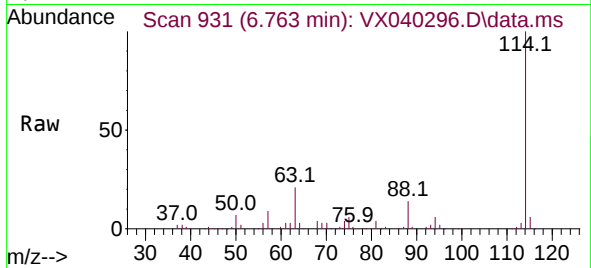




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VX040296.D  
Acq: 17 Feb 2024 12:52

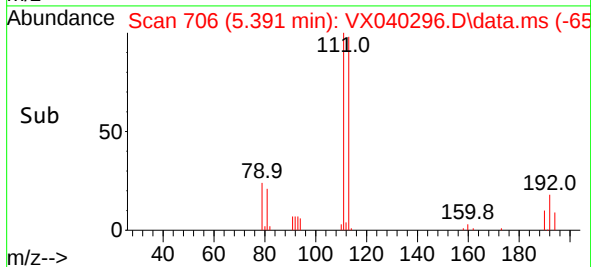
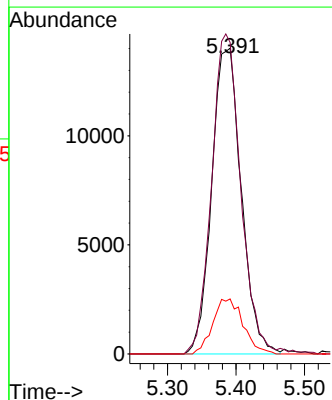
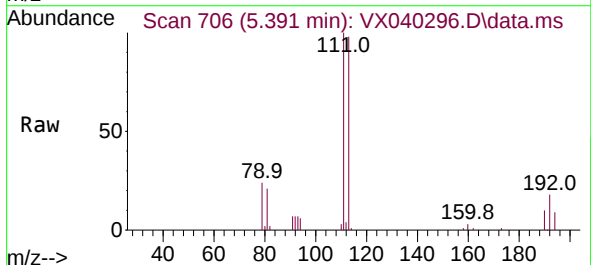
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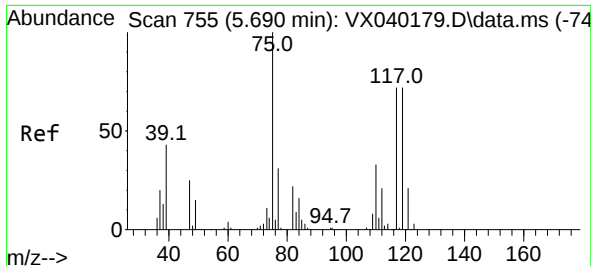
Tgt Ion:114 Resp: 128531  
Ion Ratio Lower Upper  
114 100  
63 20.6 0.0 45.0  
88 14.5 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 46.766 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.006 min  
Lab File: VX040296.D  
Acq: 17 Feb 2024 12:52

Tgt Ion:113 Resp: 41977  
Ion Ratio Lower Upper  
113 100  
111 103.7 82.9 124.3  
192 18.5 13.3 19.9

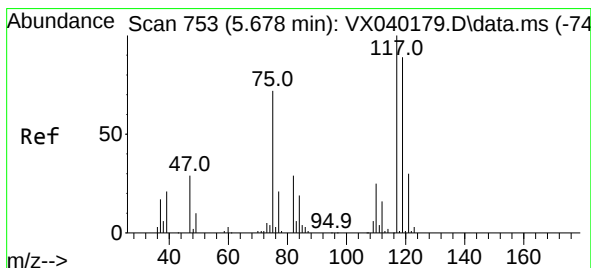
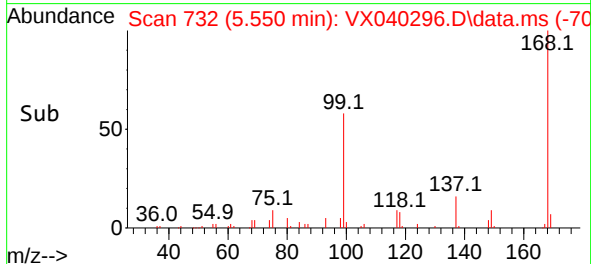
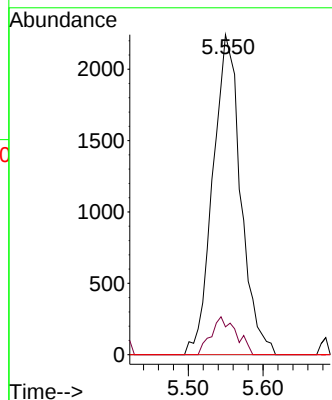
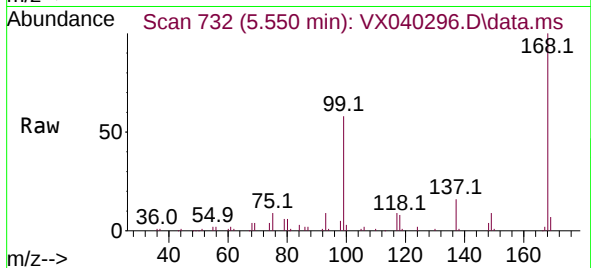




#36  
1,1-Dichloropropene  
Concen: 4.631 ug/l  
RT: 5.550 min Scan# 713  
Delta R.T. -0.146 min  
Lab File: VX040296.D  
Acq: 17 Feb 2024 12:52

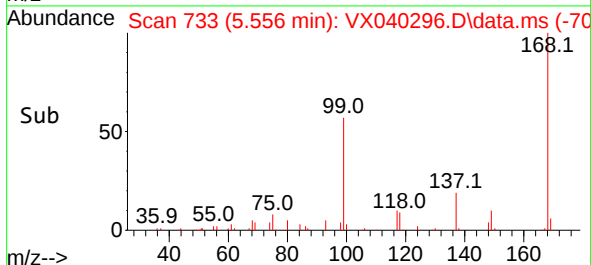
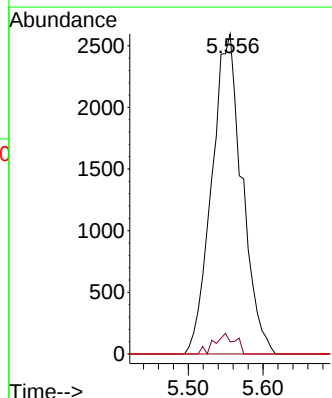
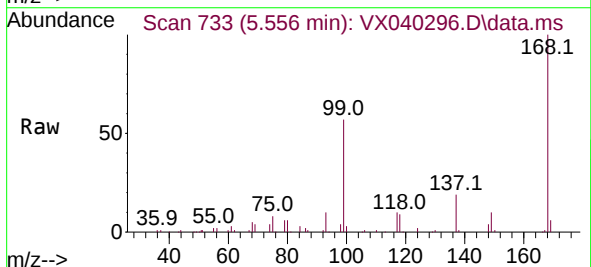
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20240214DL

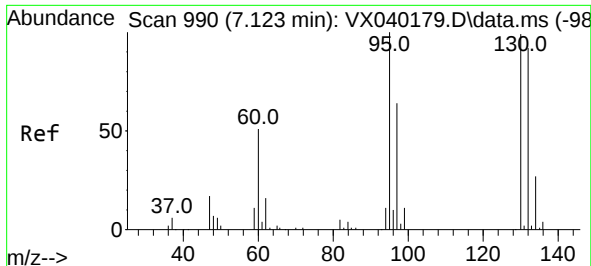
Tgt Ion: 75 Resp: 5823  
Ion Ratio Lower Upper  
75 100  
110 10.6 17.0 50.9#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 6.116 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.116 min  
Lab File: VX040296.D  
Acq: 17 Feb 2024 12:52

Tgt Ion: 117 Resp: 7312  
Ion Ratio Lower Upper  
117 100  
119 3.8 78.2 117.2#  
121 0.0 24.4 36.6#





#44

Trichloroethene

Concen: 32.415 ug/l

RT: 7.129 min Scan# 990

Delta R.T. 0.000 min

Lab File: VX040296.D

Acq: 17 Feb 2024 12:52

Instrument :

MSVOA\_X

ClientSampleId :

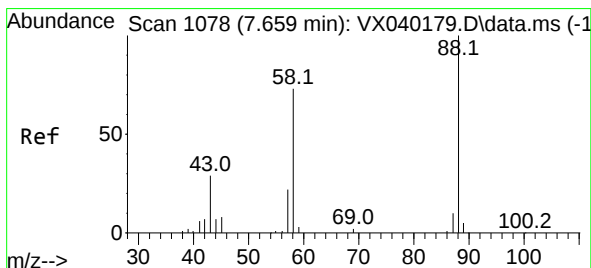
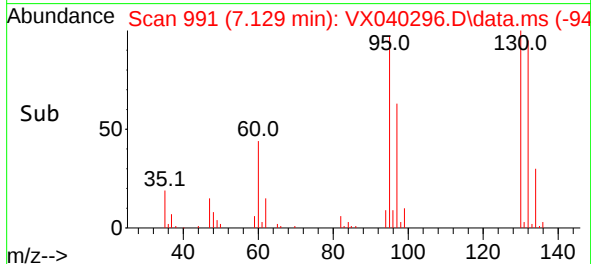
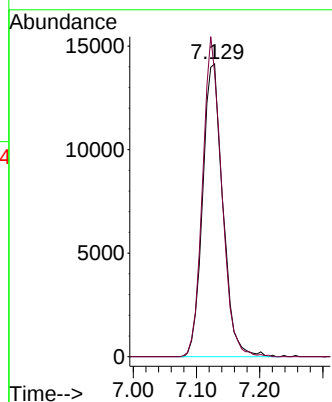
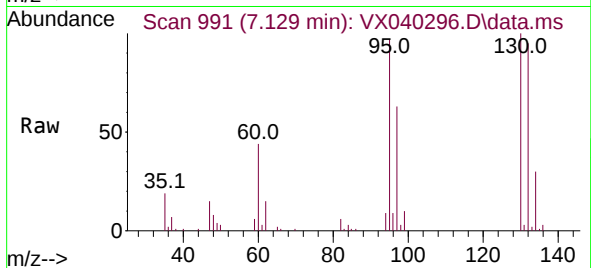
RE132D4-20240214DL

Tgt Ion:130 Resp: 31440

Ion Ratio Lower Upper

130 100

95 97.1 0.0 204.4



#49

1,4-Dioxane

Concen: 1.604 ug/l

RT: 7.683 min Scan# 1082

Delta R.T. 0.024 min

Lab File: VX040296.D

Acq: 17 Feb 2024 12:52

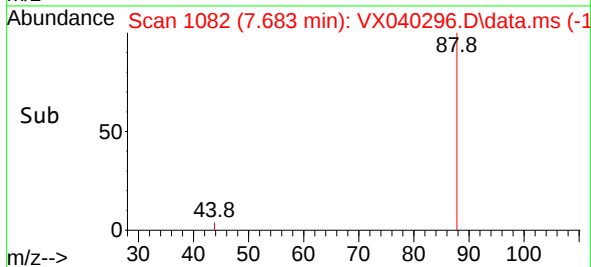
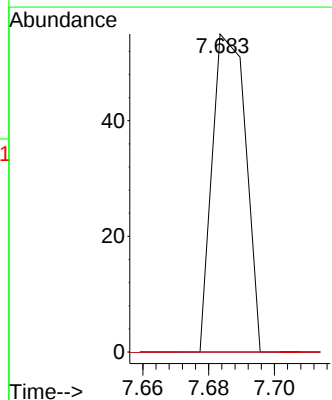
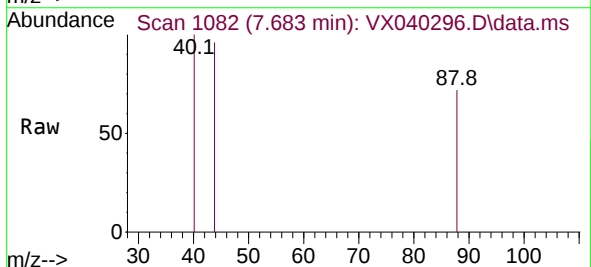
Tgt Ion: 88 Resp: 39

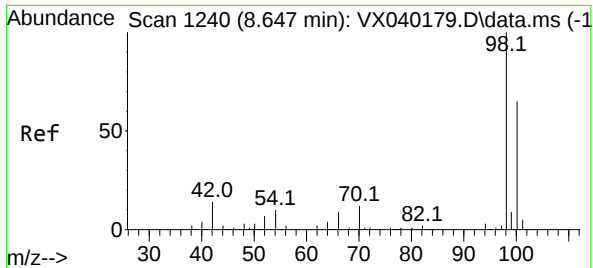
Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 0.0 60.1 90.1#

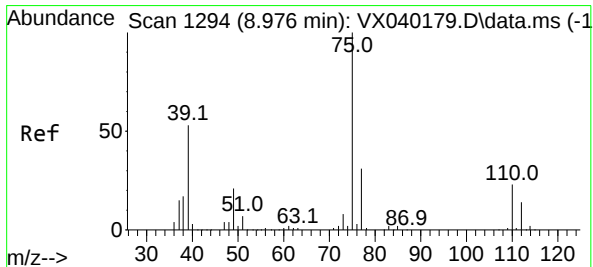
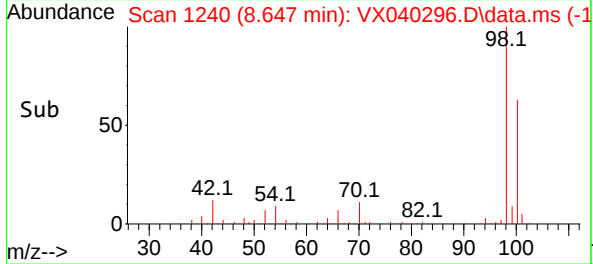
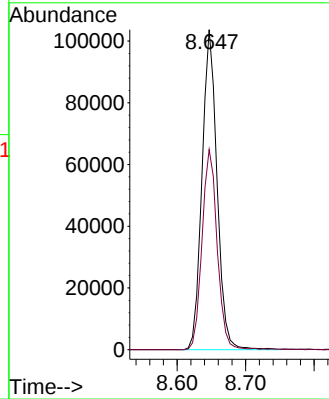
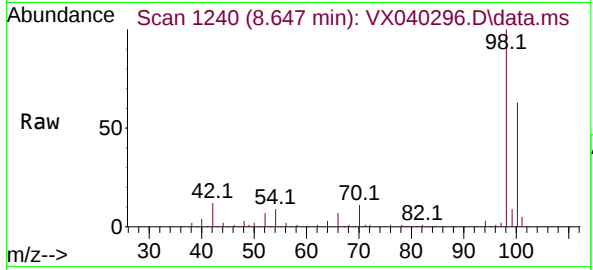




#50  
Toluene-d8  
Concen: 47.196 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VX040296.D  
Acq: 17 Feb 2024 12:52

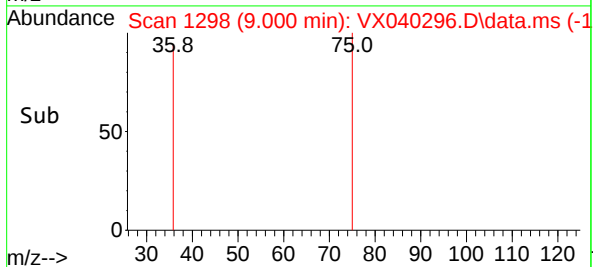
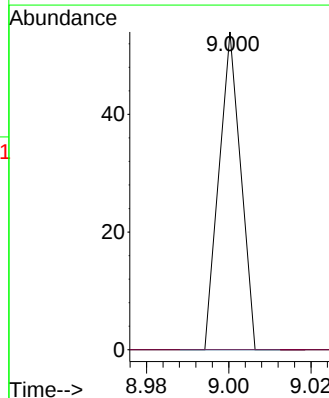
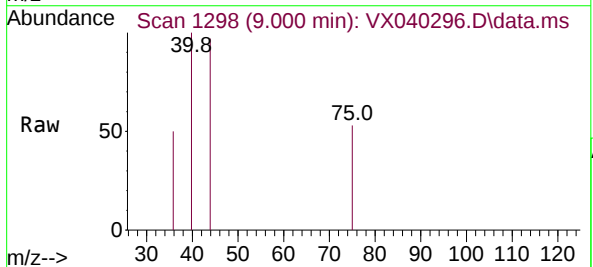
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20240214DL

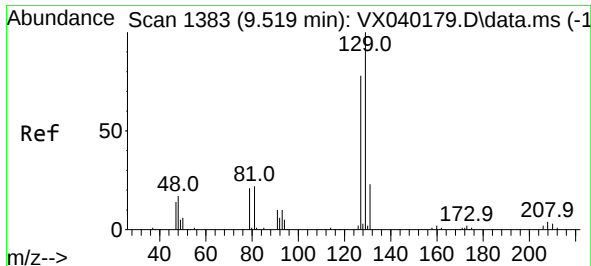
Tgt Ion: 98 Resp: 158466  
Ion Ratio Lower Upper  
98 100  
100 63.0 53.1 79.7



#53  
t-1,3-Dichloropropene  
Concen: 1.971 ug/l  
RT: 9.000 min Scan# 1298  
Delta R.T. 0.024 min  
Lab File: VX040296.D  
Acq: 17 Feb 2024 12:52

Tgt Ion: 75 Resp: 20  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.7 38.5#

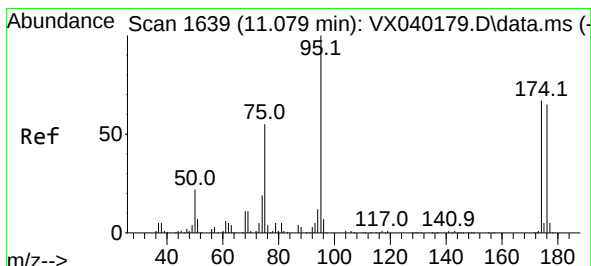
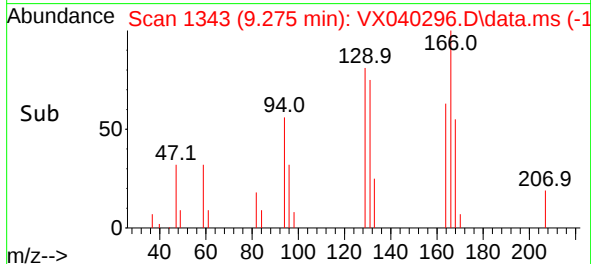
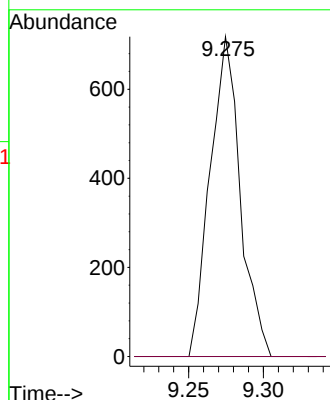
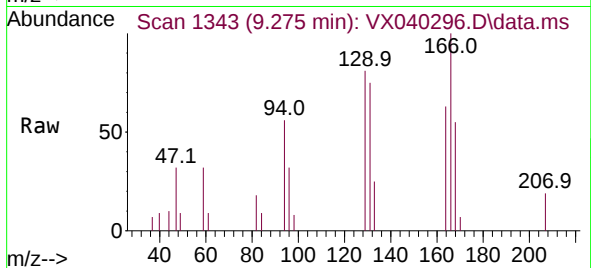




#60  
Dibromochloromethane  
Concen: 1.007 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. -0.244 min  
Lab File: VX040296.D  
Acq: 17 Feb 2024 12:52

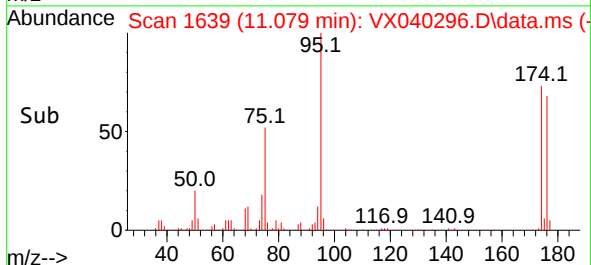
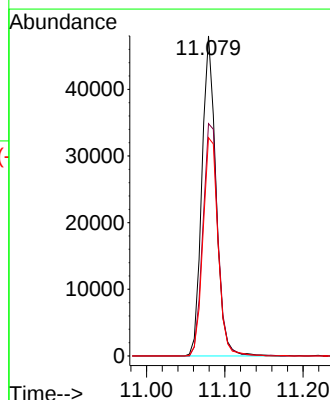
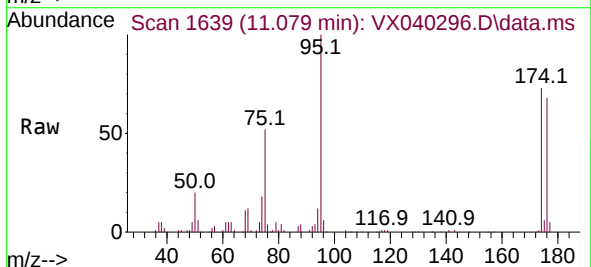
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20240214DL

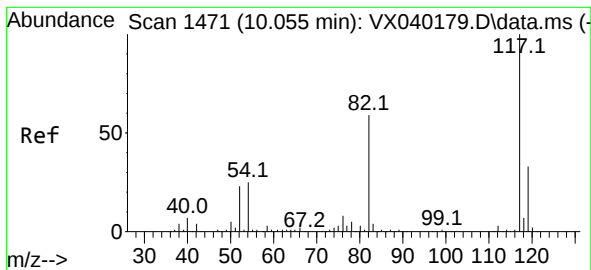
Tgt Ion:129 Resp: 1008  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.8 116.4#



#62  
4-Bromofluorobenzene  
Concen: 43.841 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX040296.D  
Acq: 17 Feb 2024 12:52

Tgt Ion: 95 Resp: 60035  
Ion Ratio Lower Upper  
95 100  
174 78.4 0.0 135.6  
176 73.1 0.0 131.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX040296.D

Acq: 17 Feb 2024 12:52

Instrument :

MSVOA\_X

ClientSampleId :

RE132D4-20240214DL

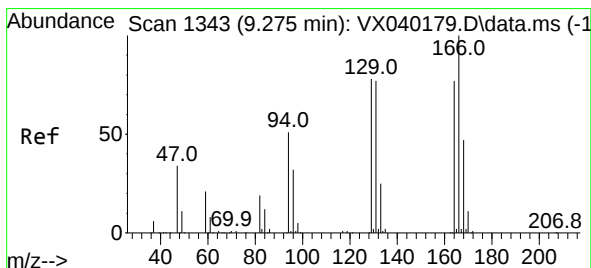
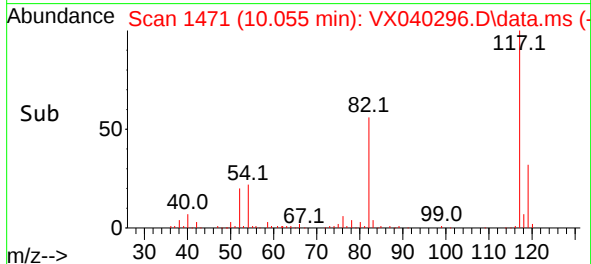
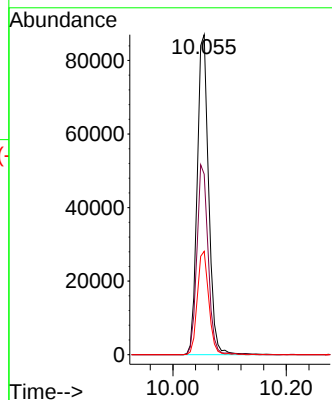
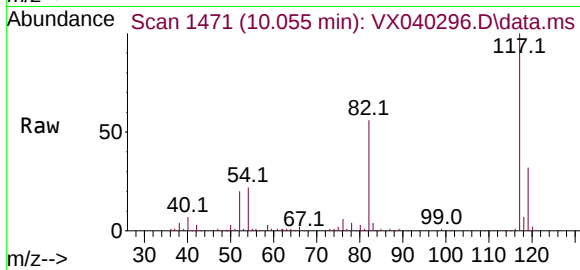
Tgt Ion:117 Resp: 121669

Ion Ratio Lower Upper

117 100

82 56.4 46.2 69.4

119 32.3 25.5 38.3



#64

Tetrachloroethene

Concen: 1.221 ug/l

RT: 9.269 min Scan# 1342

Delta R.T. -0.006 min

Lab File: VX040296.D

Acq: 17 Feb 2024 12:52

Tgt Ion:164 Resp: 1041

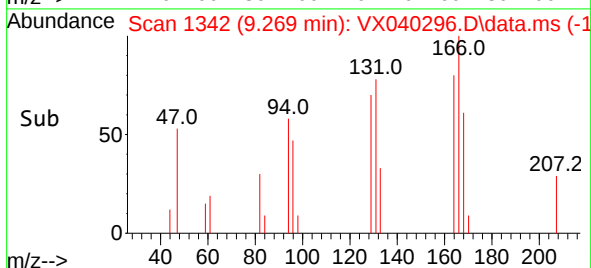
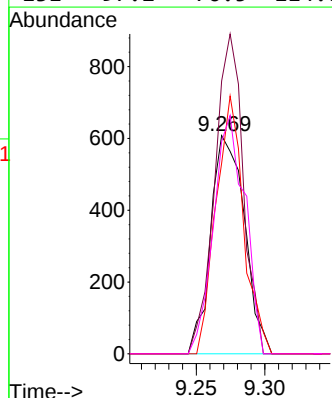
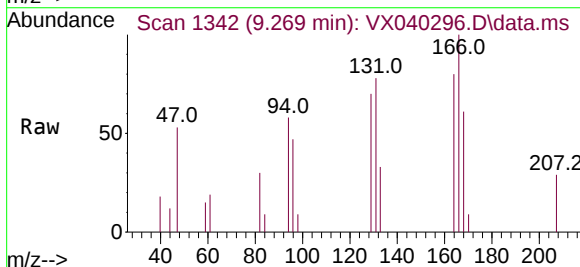
Ion Ratio Lower Upper

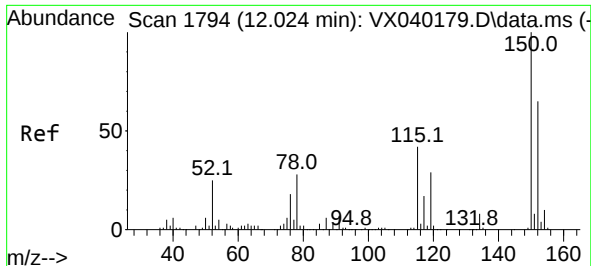
164 100

166 125.0 102.7 154.1

129 87.3 80.4 120.6

131 97.2 76.5 114.7

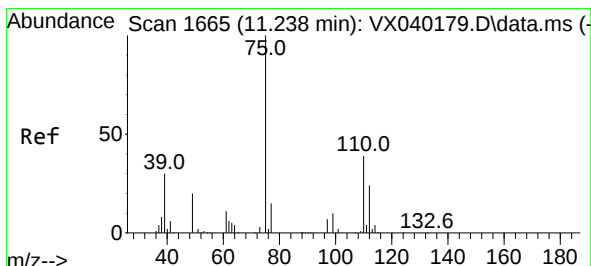
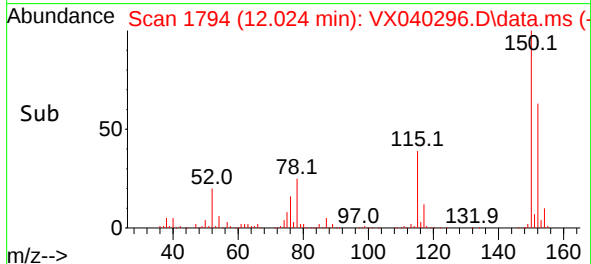
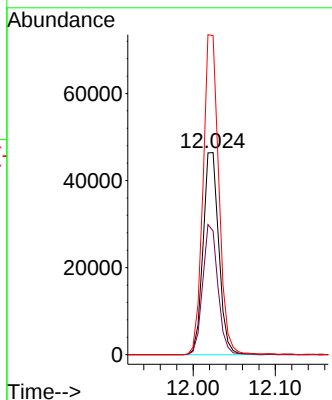
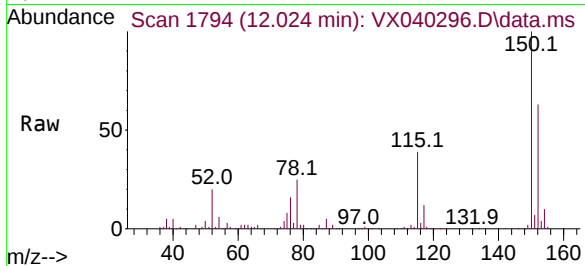




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: VX040296.D  
 Acq: 17 Feb 2024 12:52

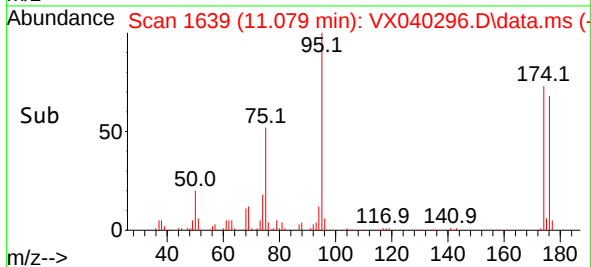
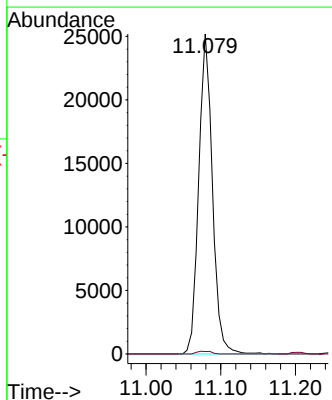
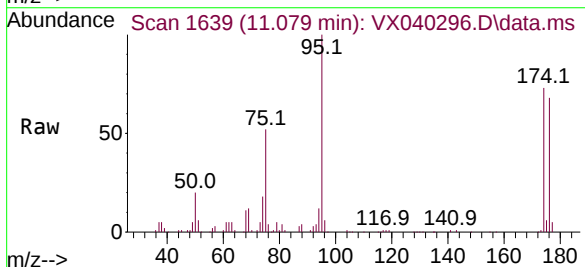
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE132D4-20240214DL

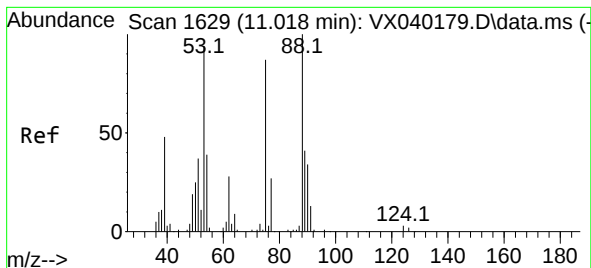
Tgt Ion:152 Resp: 61746  
 Ion Ratio Lower Upper  
 152 100  
 115 62.2 43.3 129.9  
 150 158.6 0.0 345.0



#76  
 1,2,3-Trichloropropane  
 Concen: 25.575 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.159 min  
 Lab File: VX040296.D  
 Acq: 17 Feb 2024 12:52

Tgt Ion: 75 Resp: 31979  
 Ion Ratio Lower Upper  
 75 100  
 77 0.9 19.1 57.5#

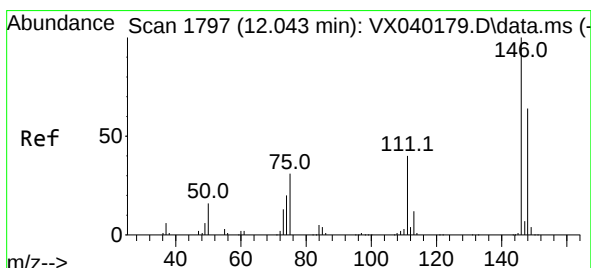
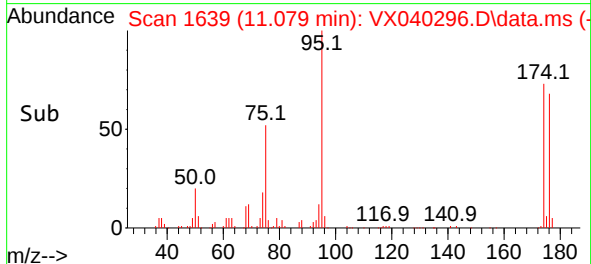
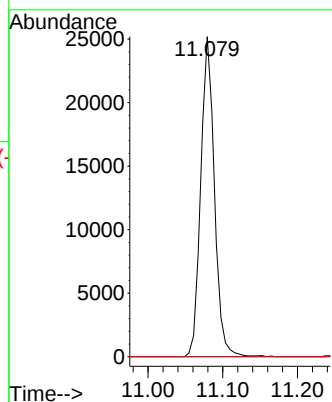
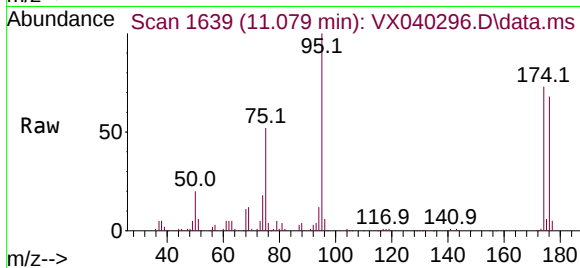




#81  
trans-1,4-Dichloro-2-butene  
Concen: 70.270 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX040296.D  
Acq: 17 Feb 2024 12:52

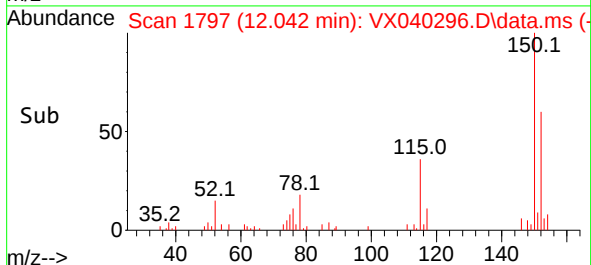
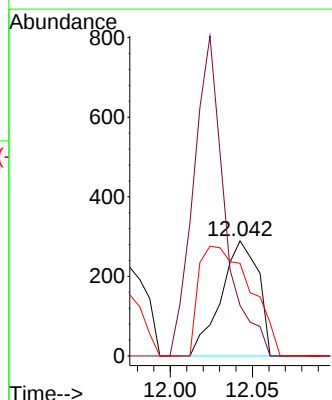
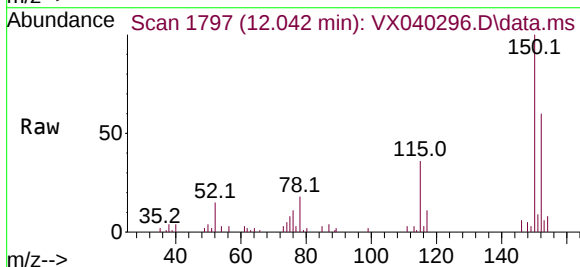
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20240214DL

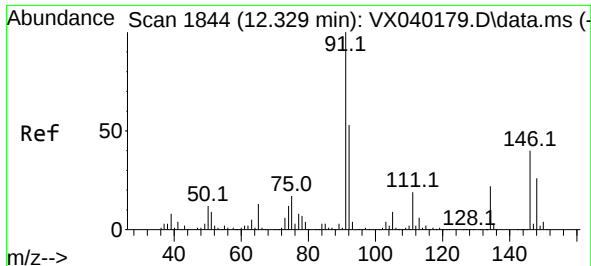
Tgt Ion: 75 Resp: 31979  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#



#88  
1,4-Dichlorobenzene  
Concen: 0.212 ug/l  
RT: 12.042 min Scan# 1797  
Delta R.T. 0.000 min  
Lab File: VX040296.D  
Acq: 17 Feb 2024 12:52

Tgt Ion:146 Resp: 456  
Ion Ratio Lower Upper  
146 100  
111 232.9 21.3 63.7#  
148 131.8 31.8 95.4#





#89

n-Butylbenzene

Concen: 0.205 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.000 min

Lab File: VX040296.D

Acq: 17 Feb 2024 12:52

Instrument :

MSVOA\_X

ClientSampleId :

RE132D4-20240214DL

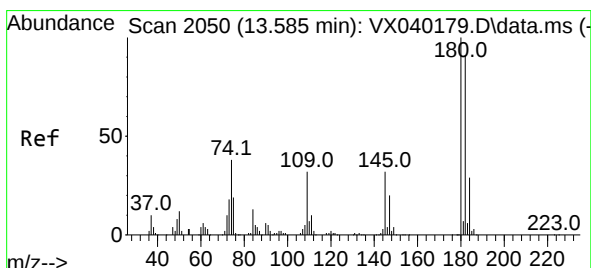
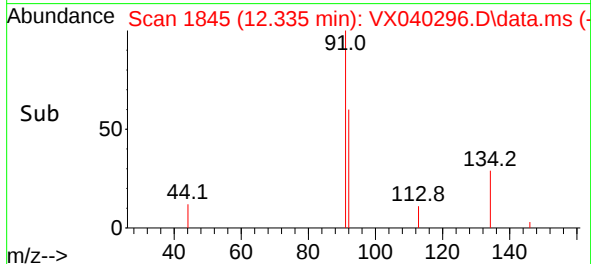
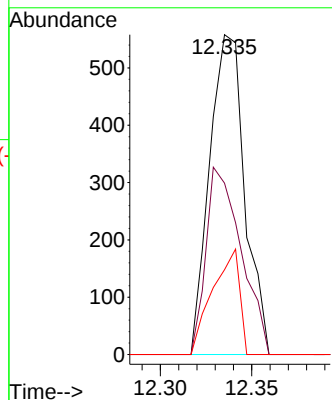
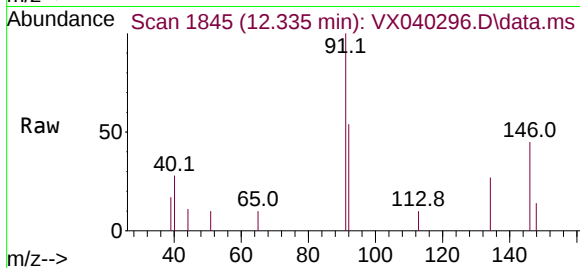
Tgt Ion: 91 Resp: 748

Ion Ratio Lower Upper

91 100

92 58.4 27.4 82.0

134 25.4 12.6 37.8



#93

1,2,4-Trichlorobenzene

Concen: 0.457 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VX040296.D

Acq: 17 Feb 2024 12:52

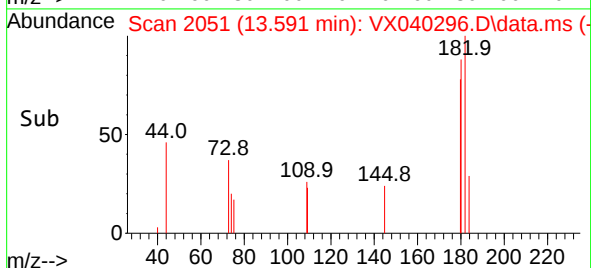
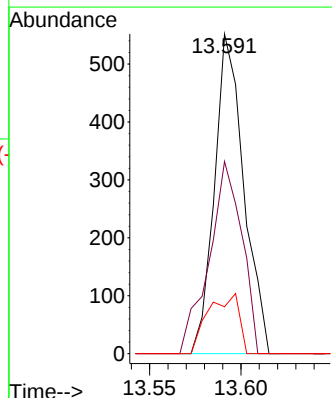
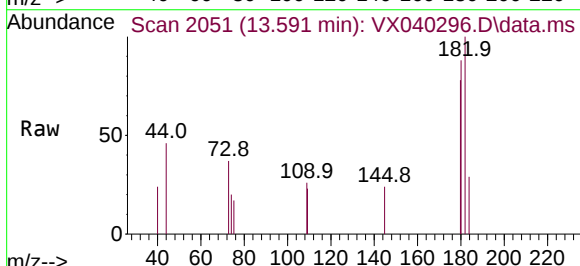
Tgt Ion: 180 Resp: 616

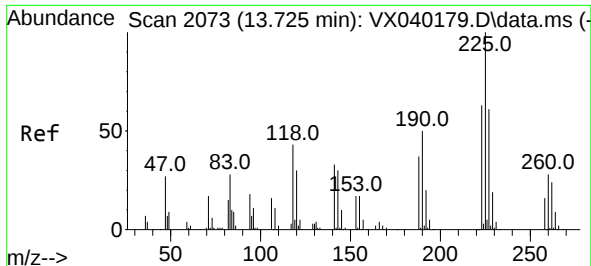
Ion Ratio Lower Upper

180 100

182 67.0 48.3 144.8

145 19.6 18.0 54.0

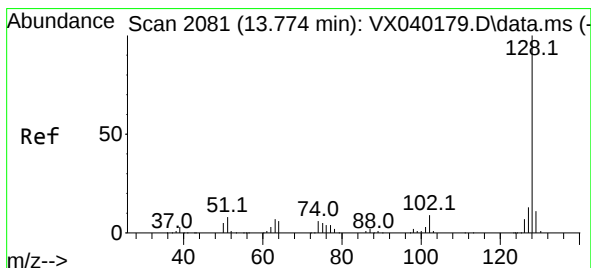
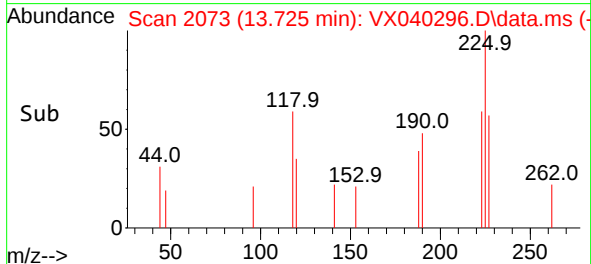
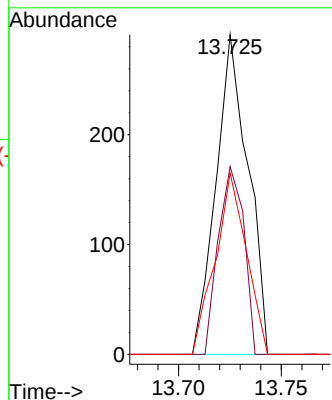
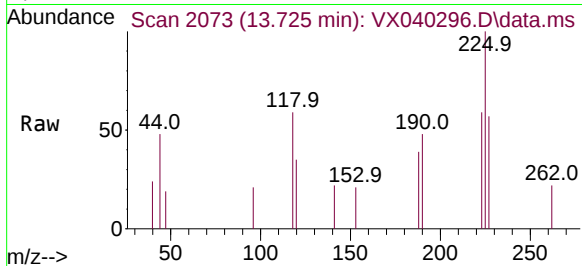




#94  
Hexachlorobutadiene  
Concen: 0.587 ug/l  
RT: 13.725 min Scan# 2073  
Delta R.T. 0.000 min  
Lab File: VX040296.D  
Acq: 17 Feb 2024 12:52

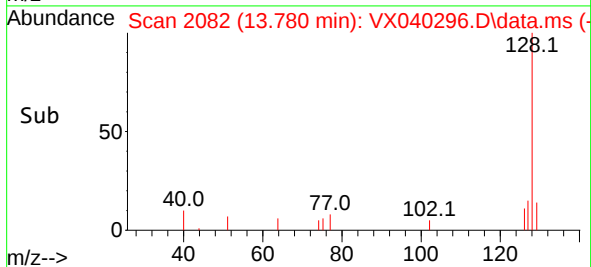
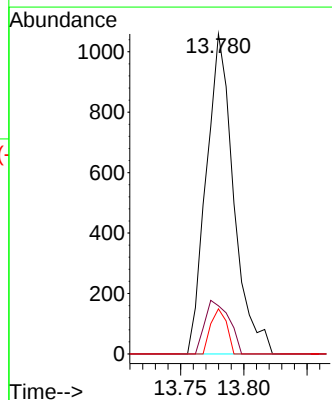
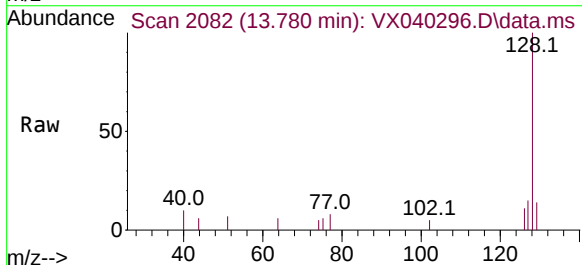
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20240214DL

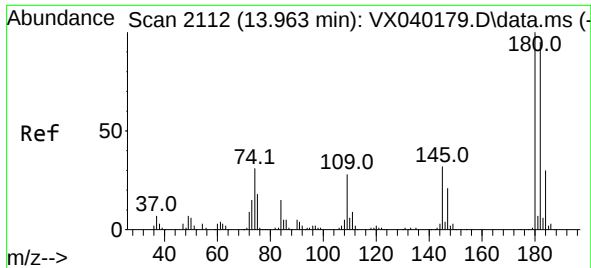
Tgt Ion:225 Resp: 316  
Ion Ratio Lower Upper  
225 100  
223 46.8 31.1 93.2  
227 55.1 32.5 97.5



#95  
Naphthalene  
Concen: 0.374 ug/l  
RT: 13.780 min Scan# 2082  
Delta R.T. 0.006 min  
Lab File: VX040296.D  
Acq: 17 Feb 2024 12:52

Tgt Ion:128 Resp: 1594  
Ion Ratio Lower Upper  
128 100  
127 14.7 10.3 15.5  
129 8.2 8.8 13.2#





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.380 ug/l  
 RT: 13.969 min Scan# 2113  
 Delta R.T. 0.006 min  
 Lab File: VX040296.D  
 Acq: 17 Feb 2024 12:52

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE132D4-20240214DL

Tgt Ion:180 Resp: 489  
 Ion Ratio Lower Upper  
 180 100  
 182 116.8 46.9 140.6  
 145 25.4 17.8 53.5

