

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX041922\  
 Data File : VX028174.D  
 Acq On : 19 Apr 2022 21:16  
 Operator : JC/MD  
 Sample : PB144164ZHE#04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB144164ZHE#04

Quant Time: Apr 20 08:19:18 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X041922W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 19 13:38:04 2022  
 Response via : Initial Calibration

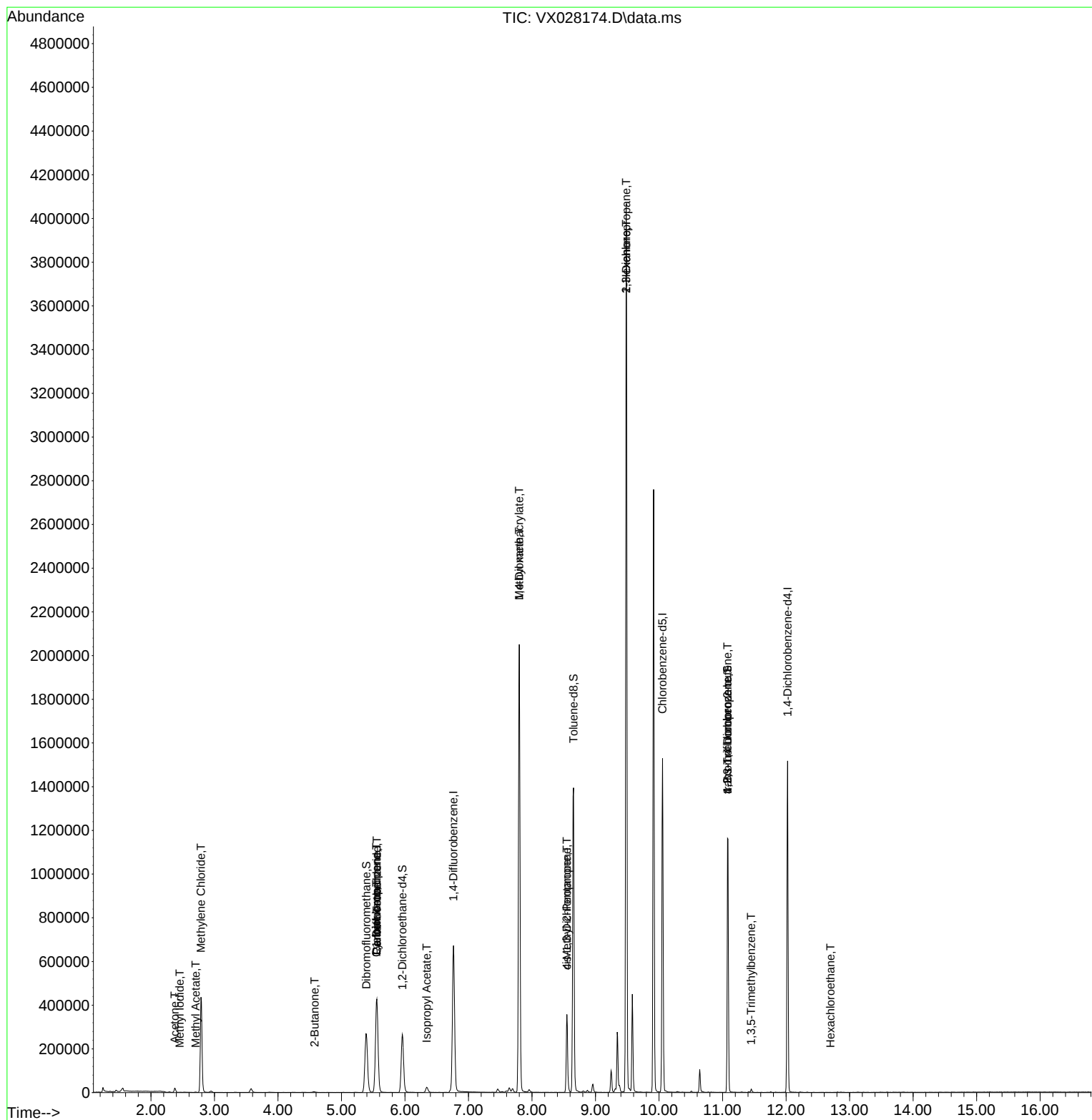
| Compound                      | R.T.   | QIon  | Response | Conc        | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-------------|--------|----------|
| -----                         |        |       |          |             |        |          |
| Internal Standards            |        |       |          |             |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 424672   | 50.000      | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 714438   | 50.000      | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 705749   | 50.000      | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 316023   | 50.000      | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |             |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 254864   | 46.027      | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery    | =      | 92.060%  |
| 35) Dibromofluoromethane      | 5.391  | 113   | 235059   | 46.915      | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery    | =      | 93.840%  |
| 50) Toluene-d8                | 8.653  | 98    | 859874   | 44.684      | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery    | =      | 89.360%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 317778   | 43.188      | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery    | =      | 86.380%  |
| Target Compounds              |        |       |          |             |        |          |
|                               |        |       |          |             | Qvalue |          |
| 3) Chloromethane              | 1.288  | 50    | 477      | Below Cal   |        | 90       |
| 5) Bromomethane               | 1.618  | 94    | 1021     | Below Cal   |        | 85       |
| 6) Chloroethane               | 1.715  | 64    | 216      | Below Cal   | #      | 43       |
| 8) Diethyl Ether              | 2.136  | 74    | 315      | Below Cal   | #      | 7        |
| 10) Methyl Iodide             | 2.453  | 142   | 1018     | 5.428 ug/l  | #      | 86       |
| 11) Tert butyl alcohol        | 2.941  | 59    | 3491     | Below Cal   | #      | 72       |
| 16) Acetone                   | 2.374  | 43    | 20094    | 10.544 ug/l |        | 93       |
| 18) Methyl Acetate            | 2.703  | 43    | 1816     | 0.369 ug/l  |        | 97       |
| 20) Methylene Chloride        | 2.788  | 84    | 205270   | 49.962 ug/l |        | 96       |
| 25) 2-Butanone                | 4.574  | 43    | 3874     | 1.181 ug/l  |        | 91       |
| 31) Cyclohexane               | 5.550  | 56    | 7798     | 1.156 ug/l  | #      | 1        |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 30621    | 4.685 ug/l  | #      | 50       |
| 38) Carbon Tetrachloride      | 5.556  | 117   | 41435    | 5.616 ug/l  | #      | 15       |
| 43) Isopropyl Acetate         | 6.342  | 43    | 32508    | 3.012 ug/l  |        | 98       |
| 48) Methyl methacrylate       | 7.799  | 41    | 169248   | 34.156 ug/l | #      | 34       |
| 49) 1,4-Dioxane               | 7.799  | 88    | 331      | 2.497 ug/l  | #      | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549  | 43    | 116830   | 16.869 ug/l | #      | 44       |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75    | 62791    | 7.793 ug/l  | #      | 65       |
| 57) 1,3-Dichloropropane       | 9.482  | 76    | 38955    | 4.469 ug/l  | #      | 43       |
| 59) 2-Hexanone                | 9.482  | 43    | 439578   | 81.937 ug/l | #      | 45       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 159170   | 25.592 ug/l | #      | 38       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105   | 6235     | 0.338 ug/l  |        | 99       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 159170   | 76.052 ug/l | #      | 15       |
| 90) Hexachloroethane          | 12.701 | 117   | 66       | 1.832 ug/l  | #      | 10       |
| -----                         |        |       |          |             |        |          |

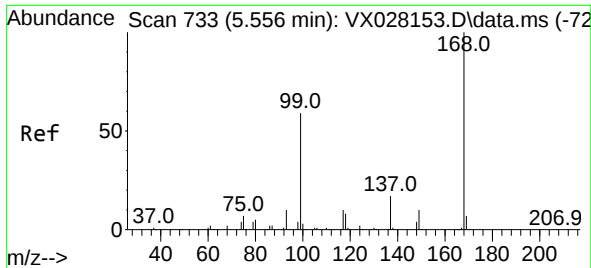
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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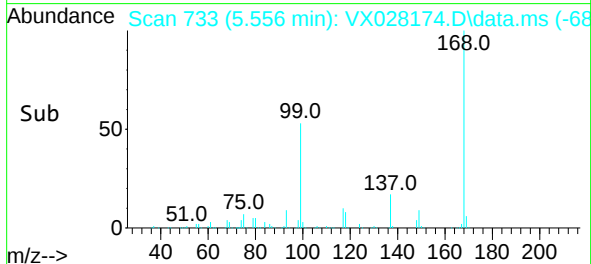
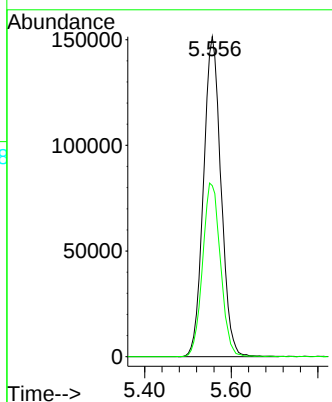
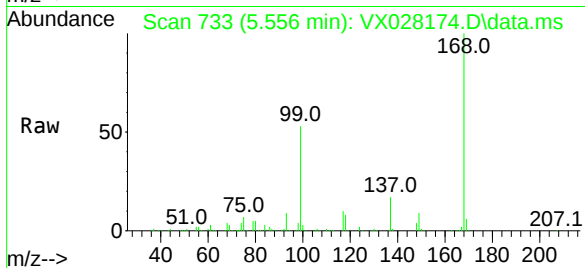




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX028174.D  
Acq: 19 Apr 2022 21:16

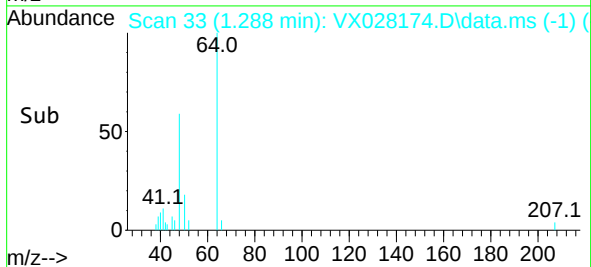
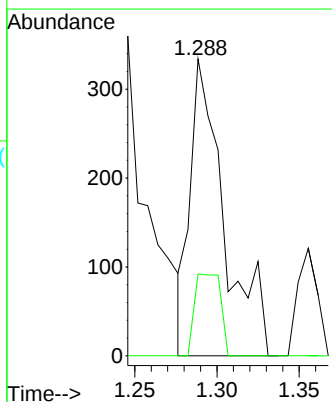
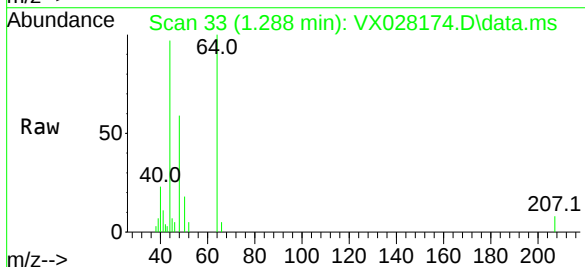
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144164ZHE#04

Tgt Ion:168 Resp: 424672  
Ion Ratio Lower Upper  
168 100  
99 53.5 41.7 62.5



#3  
Chloromethane  
Concen: Below Cal  
RT: 1.288 min Scan# 33  
Delta R.T. -0.006 min  
Lab File: VX028174.D  
Acq: 19 Apr 2022 21:16

Tgt Ion: 50 Resp: 477  
Ion Ratio Lower Upper  
50 100  
52 27.5 26.4 39.6

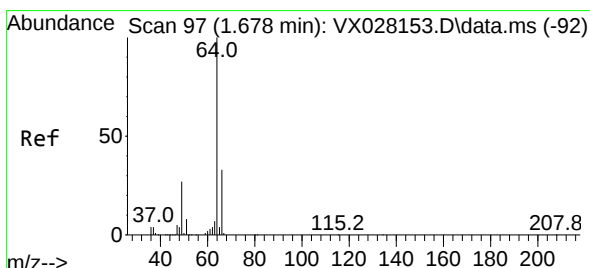
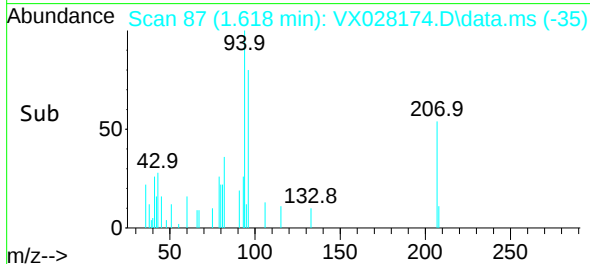
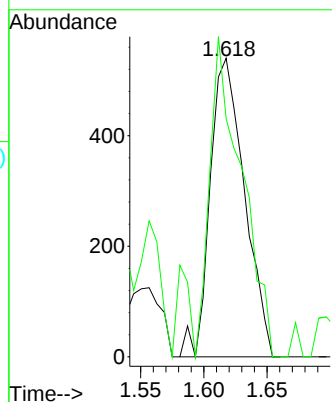
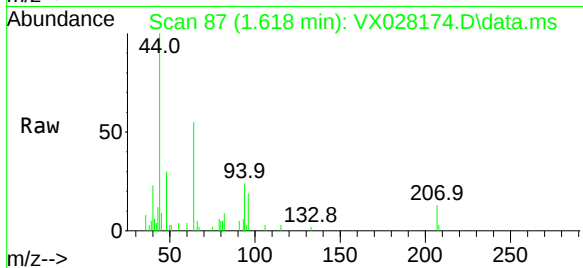




#5  
Bromomethane  
Concen: Below Cal  
RT: 1.618 min Scan# 81  
Delta R.T. 0.019 min  
Lab File: VX028174.D  
Acq: 19 Apr 2022 21:16

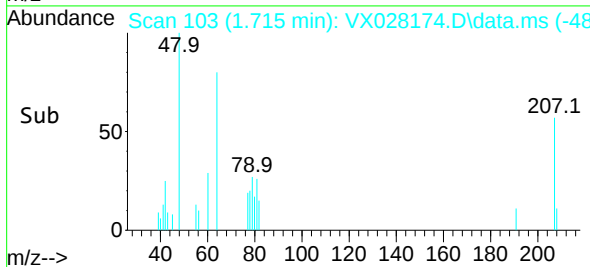
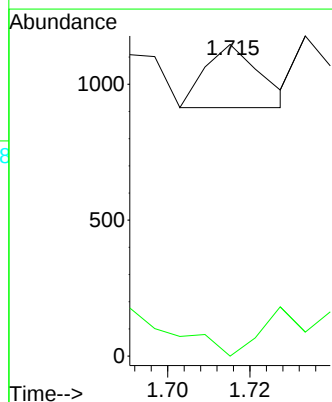
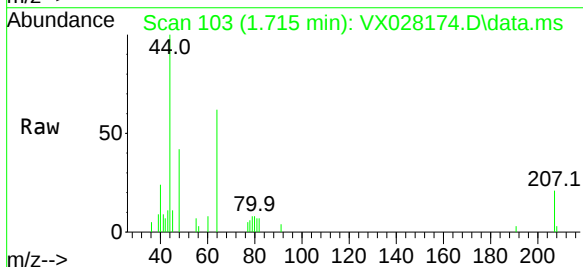
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ClientSampleId :  
PB144164ZHE#04

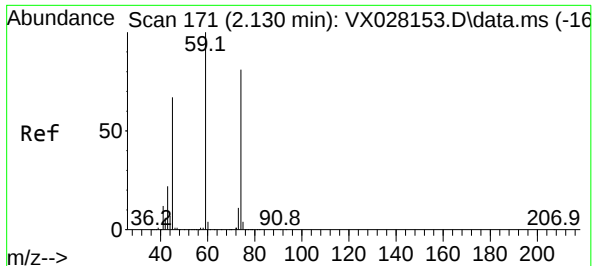
Tgt Ion: 94 Resp: 1021  
Ion Ratio Lower Upper  
94 100  
96 79.8 75.3 112.9



#6  
Chloroethane  
Concen: Below Cal  
RT: 1.715 min Scan# 103  
Delta R.T. 0.037 min  
Lab File: VX028174.D  
Acq: 19 Apr 2022 21:16

Tgt Ion: 64 Resp: 216  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.3 37.9#

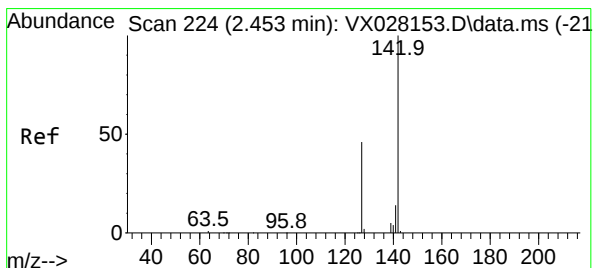
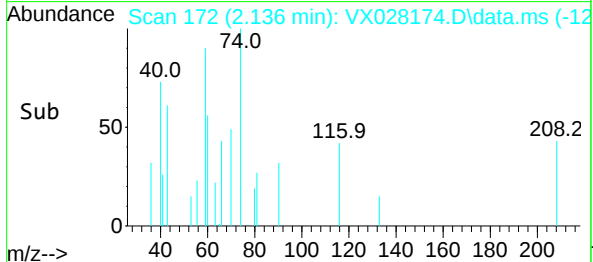
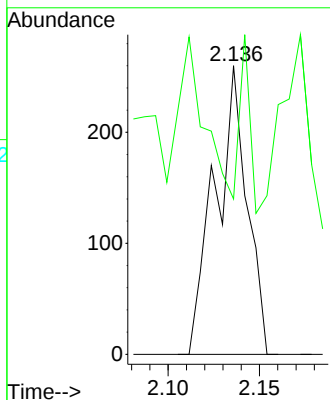
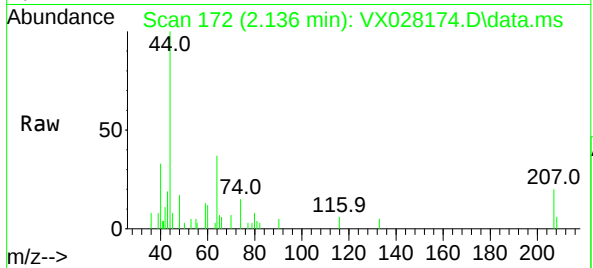




#8  
Diethyl Ether  
Concen: Below Cal  
RT: 2.136 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX028174.D  
Acq: 19 Apr 2022 21:16

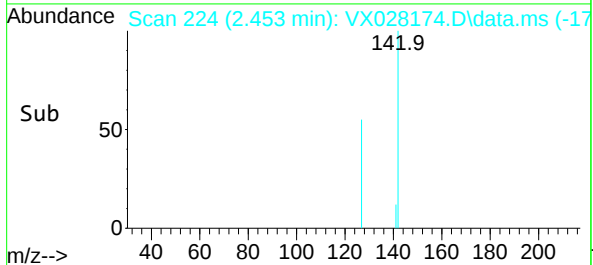
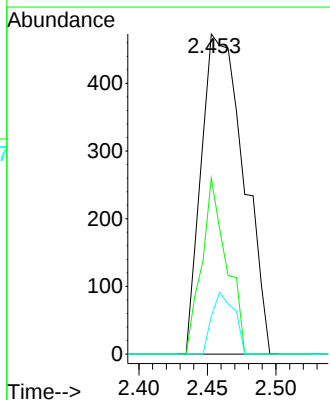
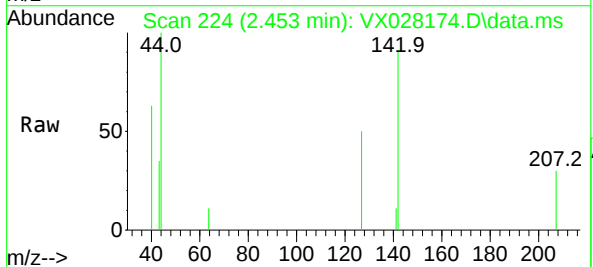
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144164ZHE#04

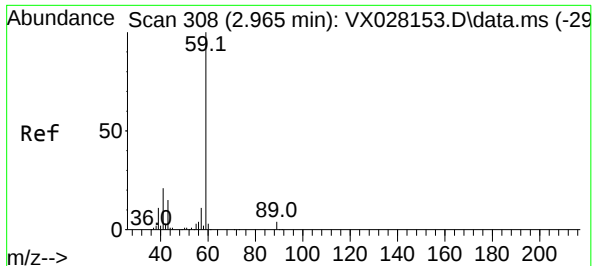
Tgt Ion: 74 Resp: 315  
Ion Ratio Lower Upper  
74 100  
45 0.0 42.0 126.0#



#10  
Methyl Iodide  
Concen: 5.428 ug/l  
RT: 2.453 min Scan# 224  
Delta R.T. -0.000 min  
Lab File: VX028174.D  
Acq: 19 Apr 2022 21:16

Tgt Ion: 142 Resp: 1018  
Ion Ratio Lower Upper  
142 100  
127 32.2 33.9 50.9#  
141 10.2 11.4 17.2#

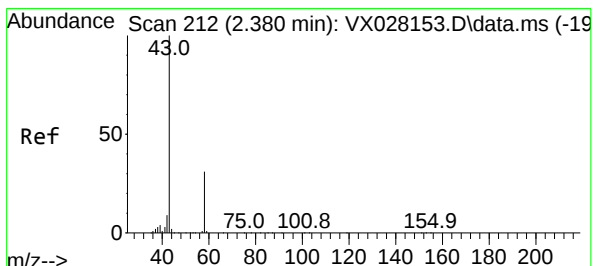
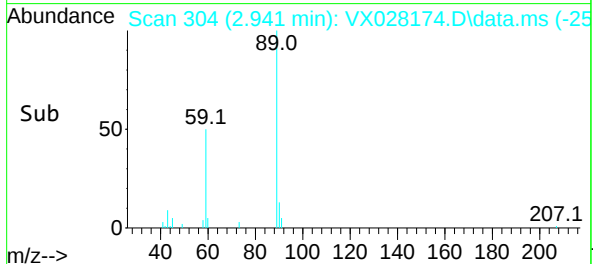
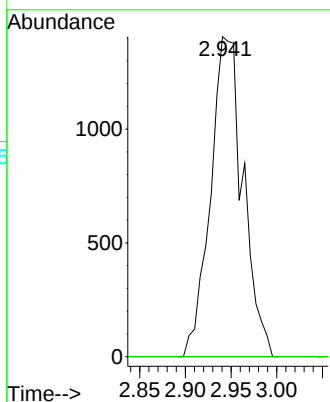
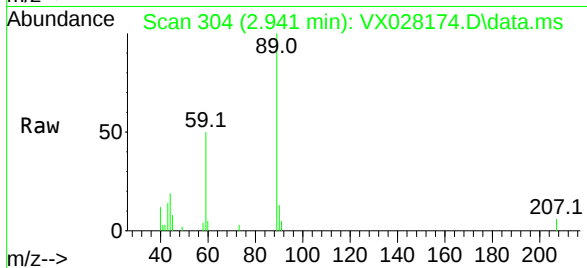




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 2.941 min Scan# 308  
Delta R.T. -0.024 min  
Lab File: VX028174.D  
Acq: 19 Apr 2022 21:16

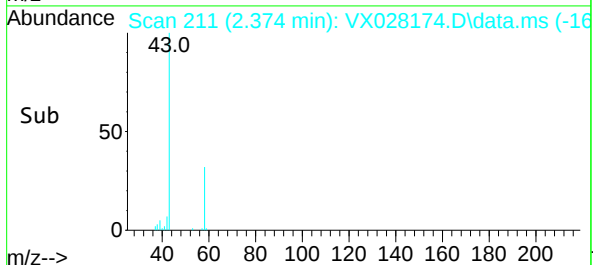
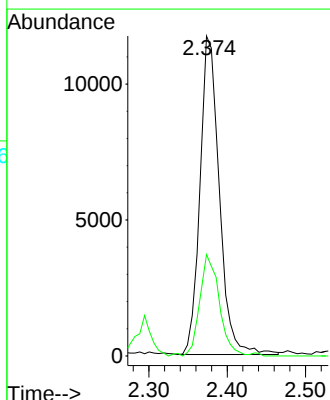
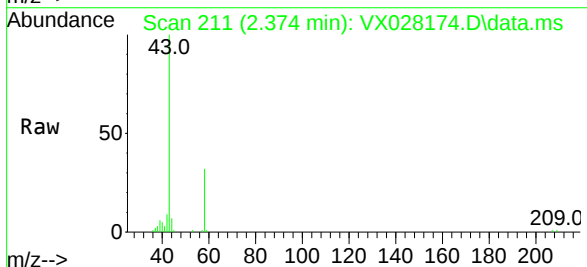
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144164ZHE#04

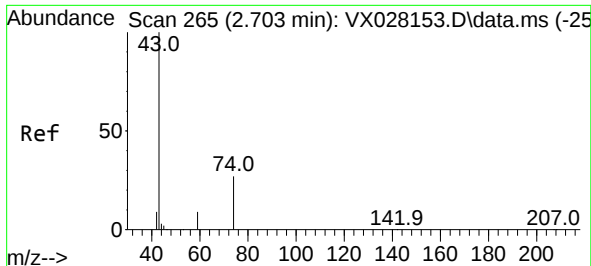
Tgt Ion: 59 Resp: 3491  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#



#16  
Acetone  
Concen: 10.544 ug/l  
RT: 2.374 min Scan# 211  
Delta R.T. -0.006 min  
Lab File: VX028174.D  
Acq: 19 Apr 2022 21:16

Tgt Ion: 43 Resp: 20094  
Ion Ratio Lower Upper  
43 100  
58 31.9 28.8 43.2

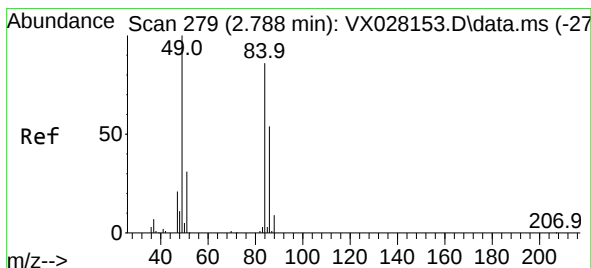
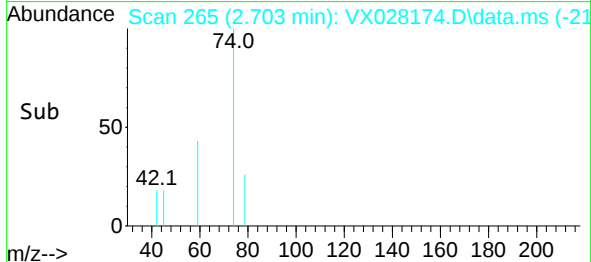
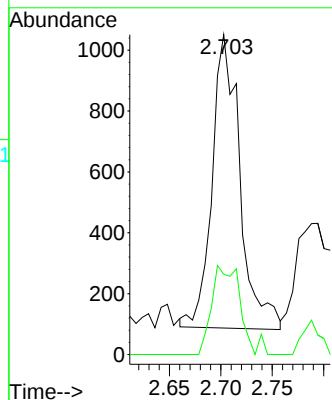
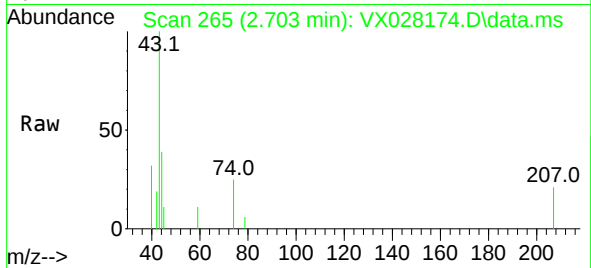




#18  
Methyl Acetate  
Concen: 0.369 ug/l  
RT: 2.703 min Scan# 265  
Delta R.T. -0.000 min  
Lab File: VX028174.D  
Acq: 19 Apr 2022 21:16

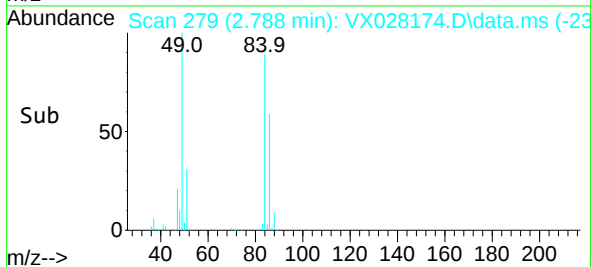
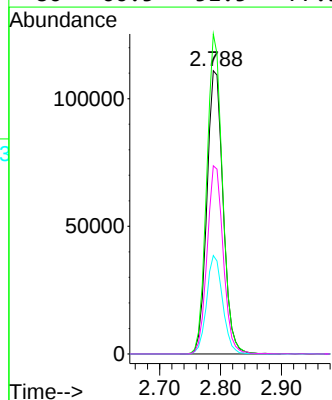
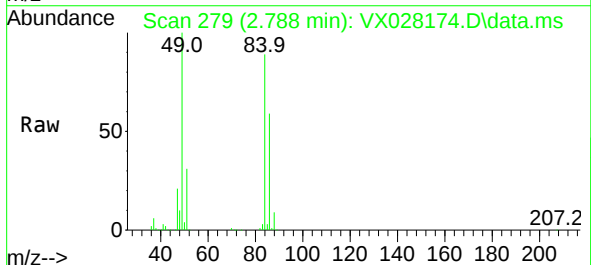
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PB144164ZHE#04

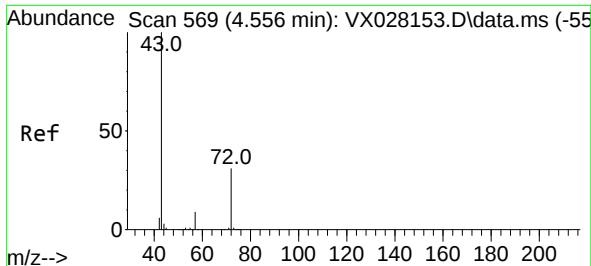
Tgt Ion: 43 Resp: 1816  
Ion Ratio Lower Upper  
43 100  
74 29.8 22.8 34.2



#20  
Methylene Chloride  
Concen: 49.962 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. 0.000 min  
Lab File: VX028174.D  
Acq: 19 Apr 2022 21:16

Tgt Ion: 84 Resp: 205270  
Ion Ratio Lower Upper  
84 100  
49 113.0 85.5 128.3  
51 34.8 26.6 39.8  
86 66.5 51.5 77.3





#25

2-Butanone

Concen: 1.181 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.018 min

Lab File: VX028174.D

Acq: 19 Apr 2022 21:16

Instrument :

MSVOA\_X

ClientSampleId :

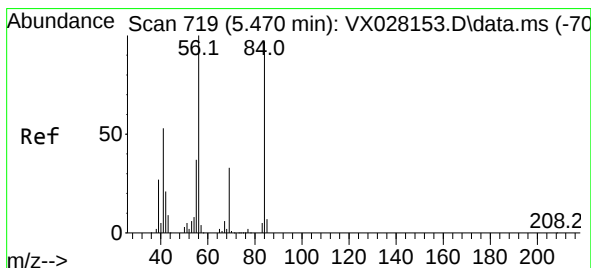
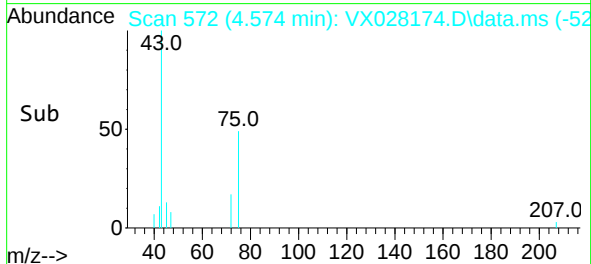
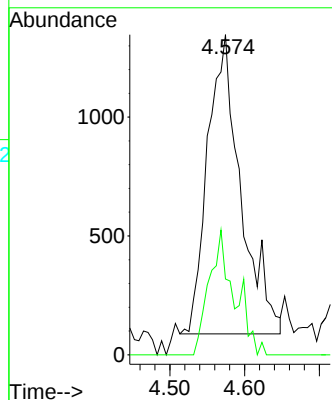
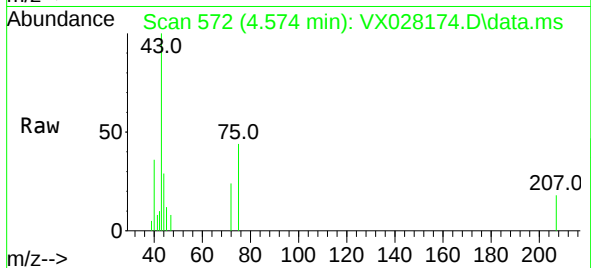
PB144164ZHE#04

Tgt Ion: 43 Resp: 3874

Ion Ratio Lower Upper

43 100

72 25.3 24.4 36.6



#31

Cyclohexane

Concen: 1.156 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.080 min

Lab File: VX028174.D

Acq: 19 Apr 2022 21:16

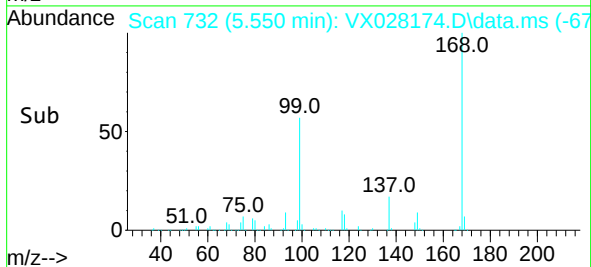
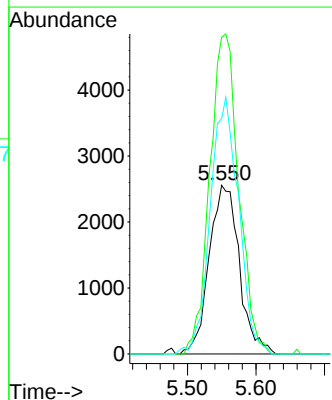
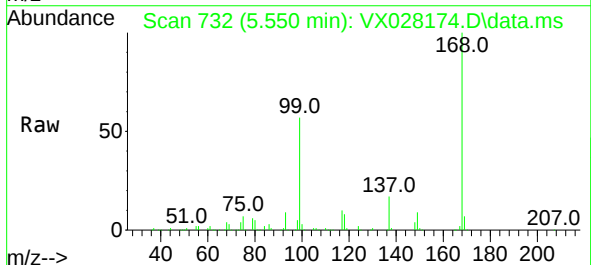
Tgt Ion: 56 Resp: 7798

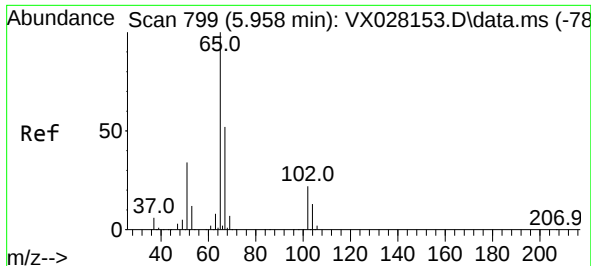
Ion Ratio Lower Upper

56 100

69 187.8 26.7 40.1#

84 139.5 77.2 115.8#

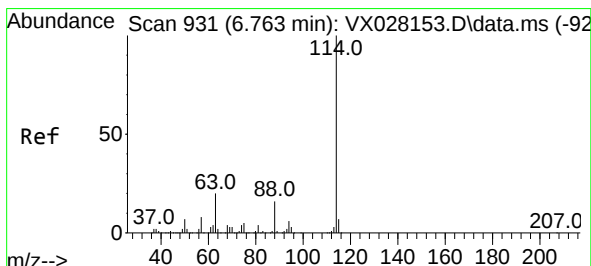
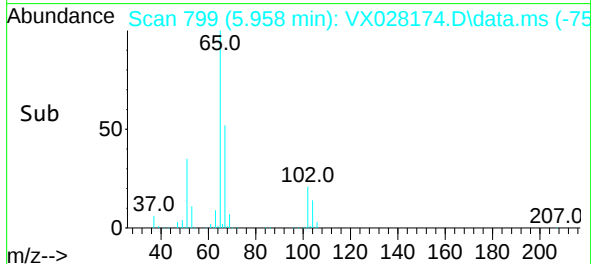
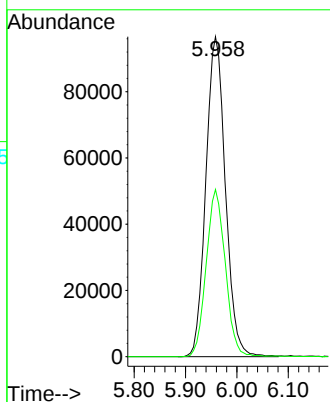
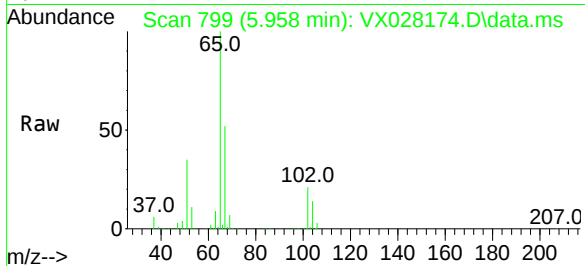




#33  
 1,2-Dichloroethane-d4  
 Concen: 46.027 ug/l  
 RT: 5.958 min Scan# 799  
 Delta R.T. 0.000 min  
 Lab File: VX028174.D  
 Acq: 19 Apr 2022 21:16

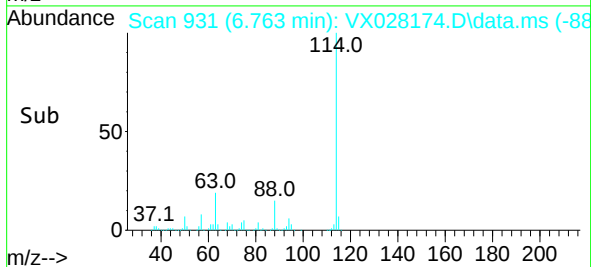
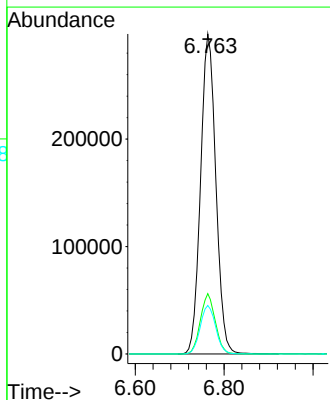
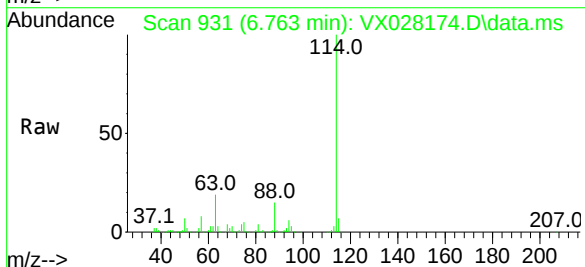
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB144164ZHE#04

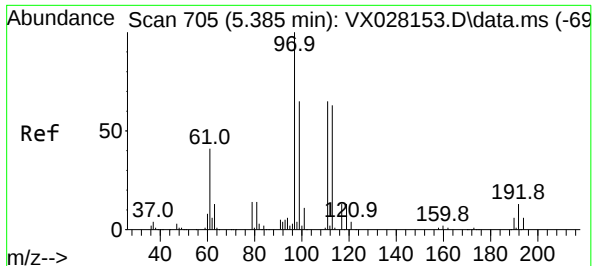
Tgt Ion: 65 Resp: 254864  
 Ion Ratio Lower Upper  
 65 100  
 67 51.3 0.0 107.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.763 min Scan# 931  
 Delta R.T. 0.000 min  
 Lab File: VX028174.D  
 Acq: 19 Apr 2022 21:16

Tgt Ion: 114 Resp: 714438  
 Ion Ratio Lower Upper  
 114 100  
 63 18.8 0.0 36.8  
 88 15.1 0.0 32.4

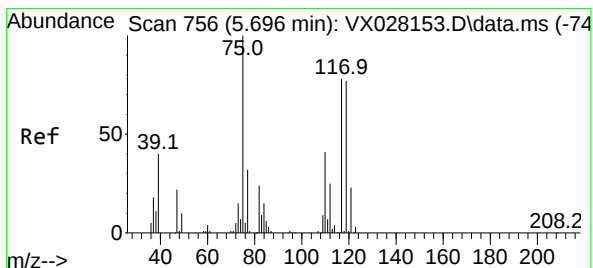
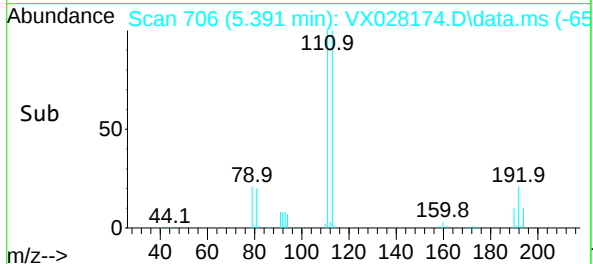
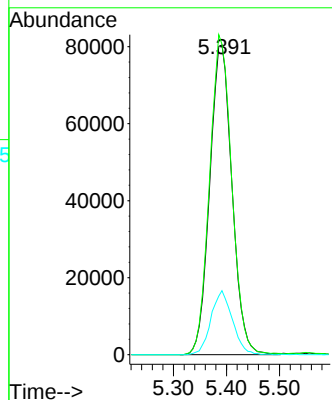
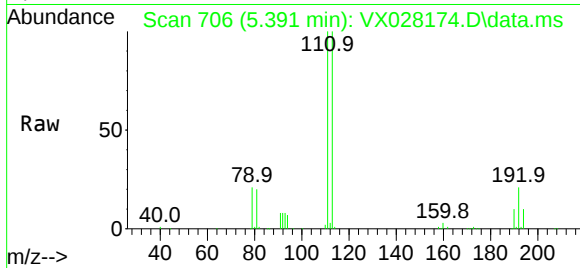




#35  
Dibromofluoromethane  
Concen: 46.915 ug/l  
RT: 5.391 min Scan# 705  
Delta R.T. 0.006 min  
Lab File: VX028174.D  
Acq: 19 Apr 2022 21:16

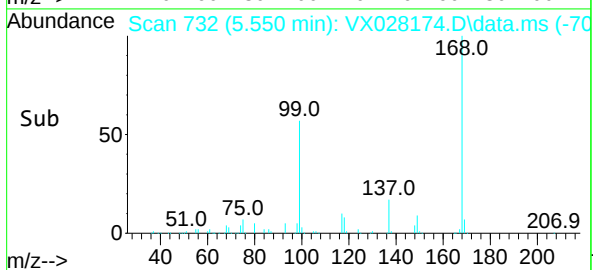
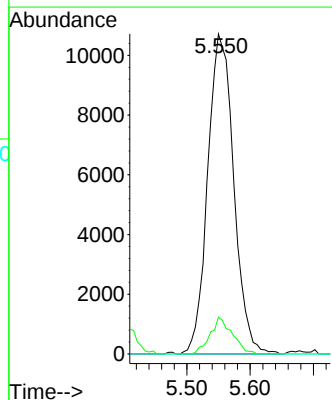
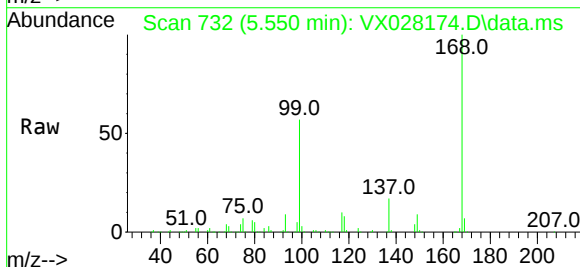
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144164ZHE#04

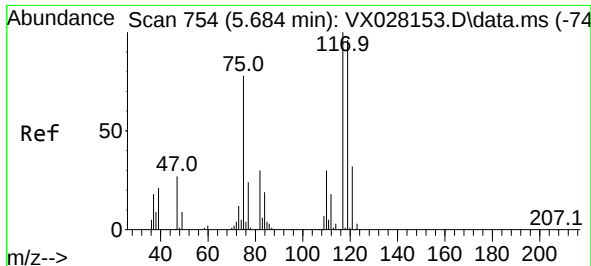
Tgt Ion:113 Resp: 235059  
Ion Ratio Lower Upper  
113 100  
111 102.6 82.8 124.2  
192 19.9 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 4.685 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.146 min  
Lab File: VX028174.D  
Acq: 19 Apr 2022 21:16

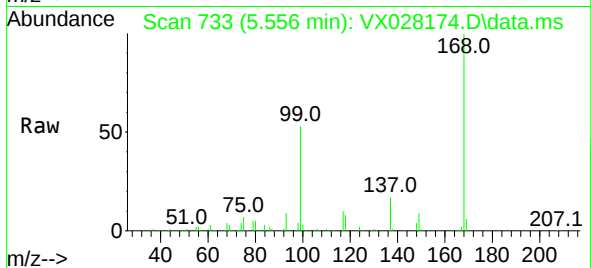
Tgt Ion: 75 Resp: 30621  
Ion Ratio Lower Upper  
75 100  
110 9.7 18.3 54.8#  
77 0.0 24.8 37.2#



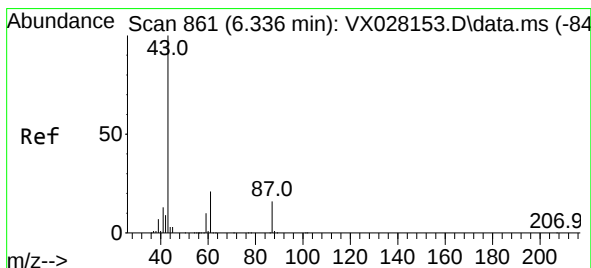
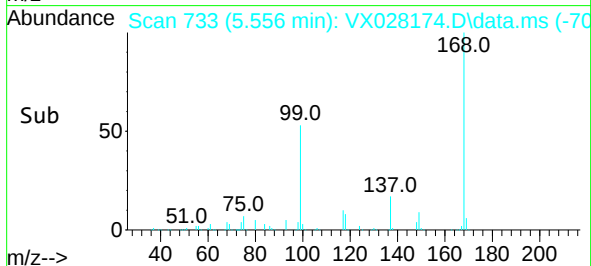
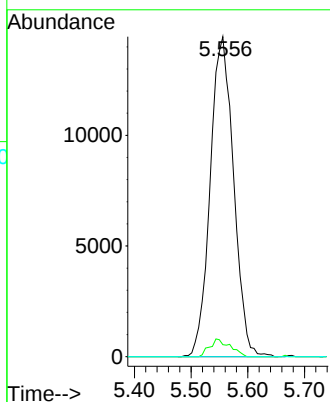


#38  
Carbon Tetrachloride  
Concen: 5.616 ug/l  
RT: 5.556 min Scan# 711  
Delta R.T. -0.128 min  
Lab File: VX028174.D  
Acq: 19 Apr 2022 21:16

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144164ZHE#04

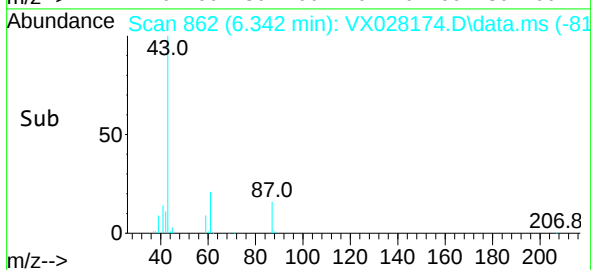
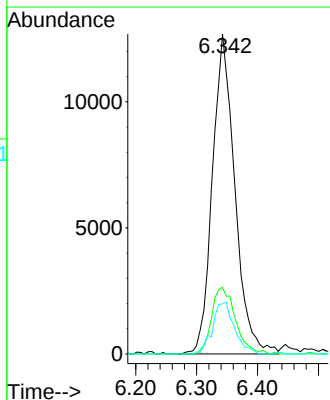
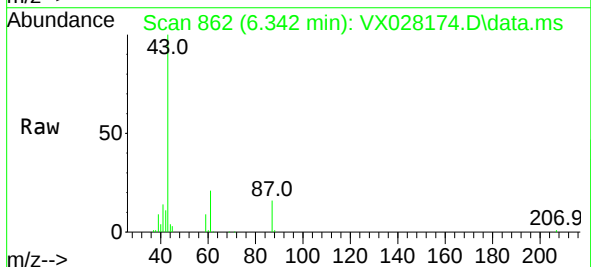


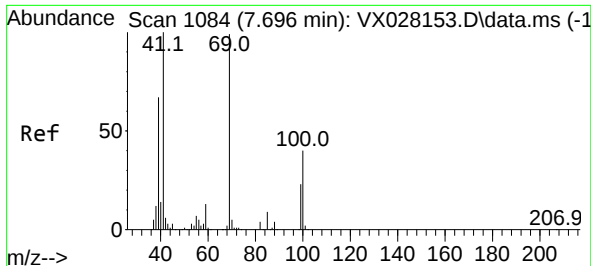
Tgt Ion:117 Resp: 41435  
Ion Ratio Lower Upper  
117 100  
119 3.8 77.3 115.9#  
121 0.0 24.2 36.2#



#43  
Isopropyl Acetate  
Concen: 3.012 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. 0.006 min  
Lab File: VX028174.D  
Acq: 19 Apr 2022 21:16

Tgt Ion: 43 Resp: 32508  
Ion Ratio Lower Upper  
43 100  
61 21.9 18.5 27.7  
87 15.8 13.0 19.6

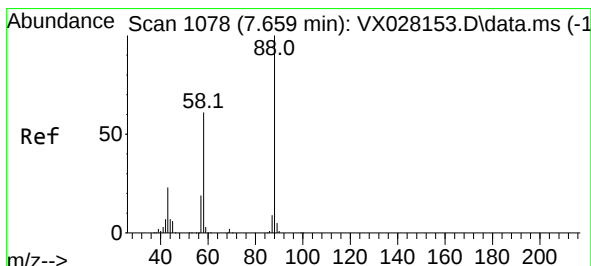
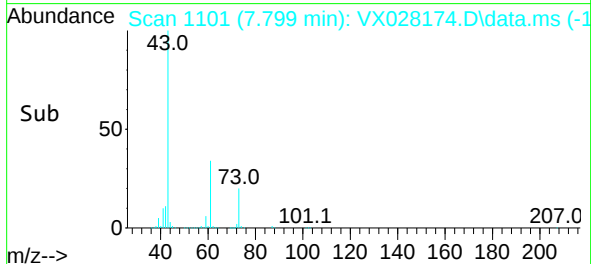
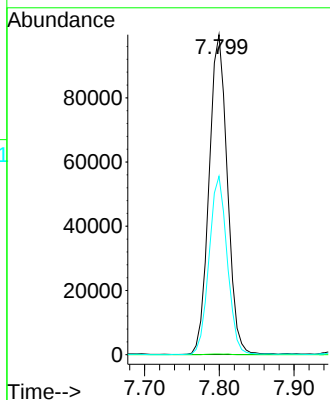
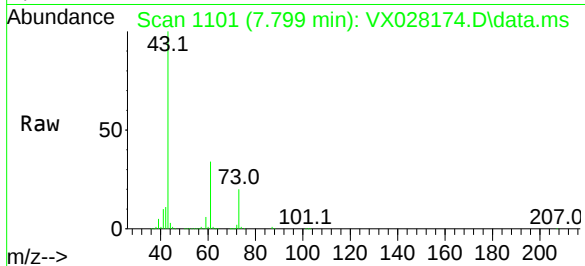




#48  
Methyl methacrylate  
Concen: 34.156 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.103 min  
Lab File: VX028174.D  
Acq: 19 Apr 2022 21:16

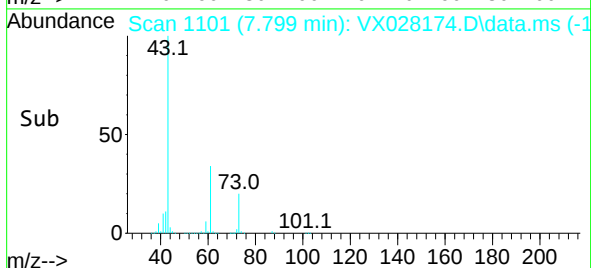
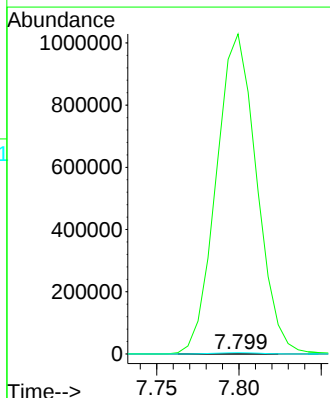
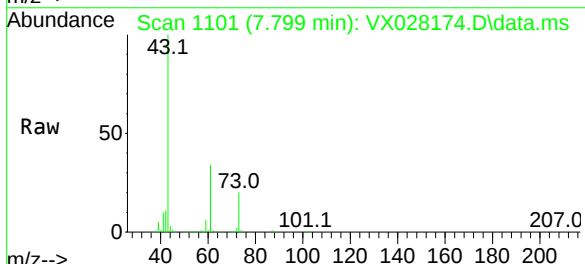
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144164ZHE#04

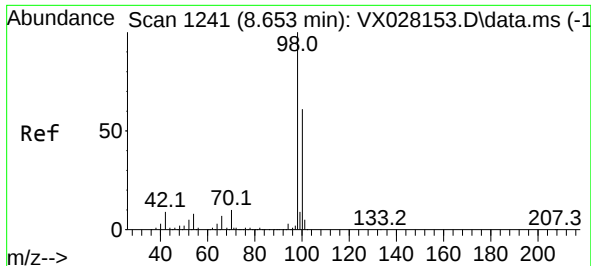
Tgt Ion: 41 Resp: 169248  
Ion Ratio Lower Upper  
41 100  
69 0.2 82.5 123.7#  
39 55.6 43.8 65.8



#49  
1,4-Dioxane  
Concen: 2.497 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.140 min  
Lab File: VX028174.D  
Acq: 19 Apr 2022 21:16

Tgt Ion: 88 Resp: 331  
Ion Ratio Lower Upper  
88 100  
43 534085.8 21.9 32.9#  
58 2258.6 53.7 80.5#

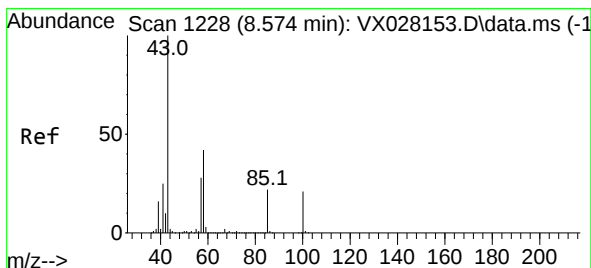
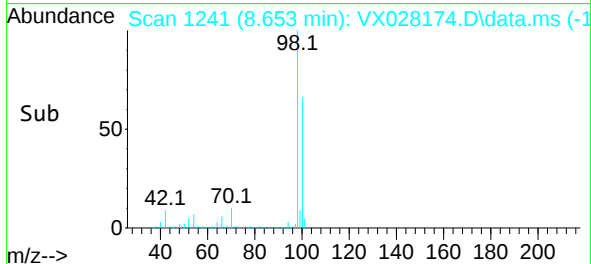
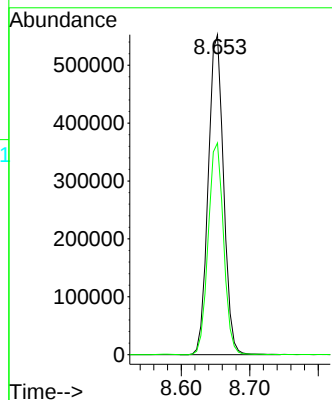
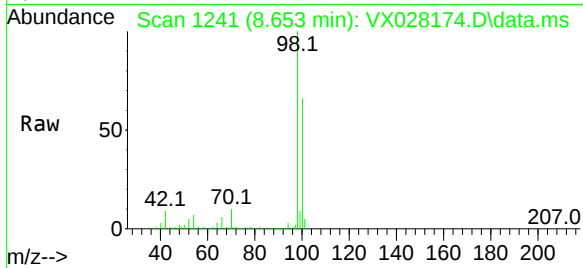




#50  
Toluene-d8  
Concen: 44.684 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX028174.D  
Acq: 19 Apr 2022 21:16

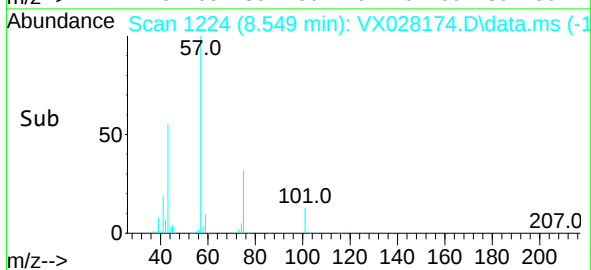
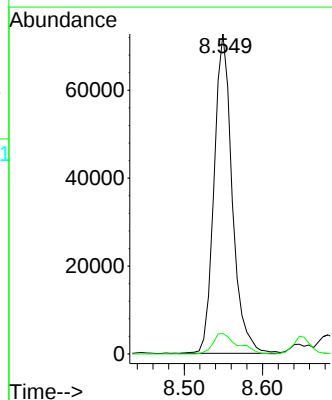
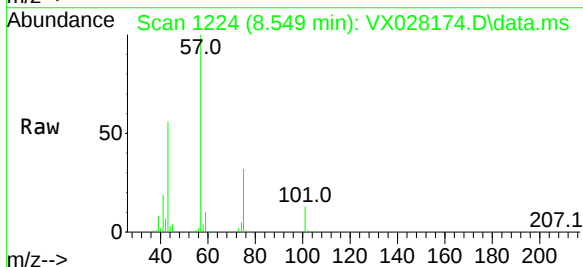
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144164ZHE#04

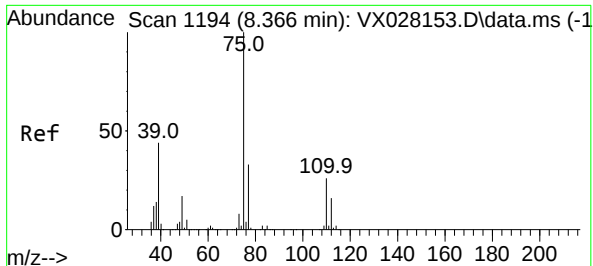
Tgt Ion: 98 Resp: 859874  
Ion Ratio Lower Upper  
98 100  
100 66.4 52.6 78.8



#51  
4-Methyl-2-Pentanone  
Concen: 16.869 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.025 min  
Lab File: VX028174.D  
Acq: 19 Apr 2022 21:16

Tgt Ion: 43 Resp: 116830  
Ion Ratio Lower Upper  
43 100  
58 8.7 36.1 54.1#

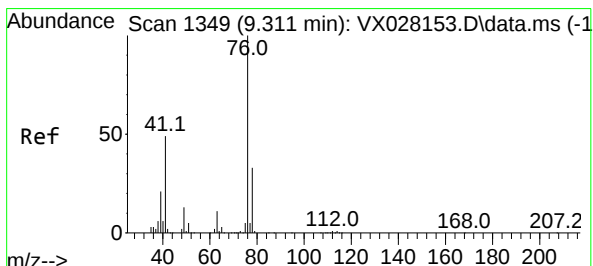
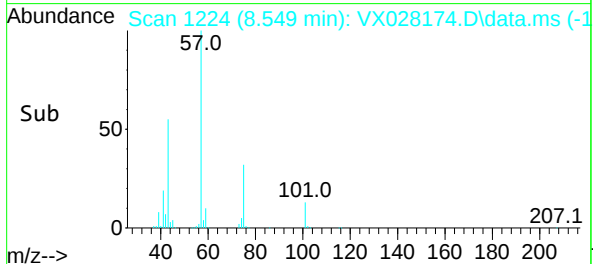
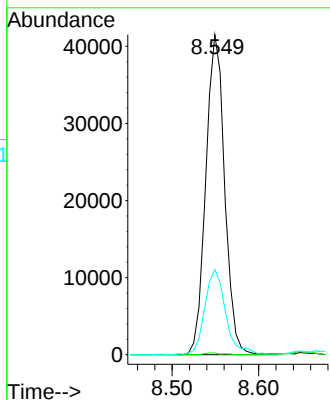
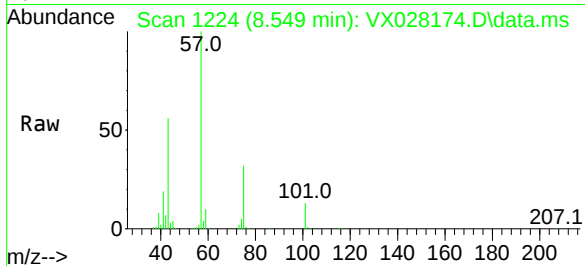




#54  
cis-1,3-Dichloropropene  
Concen: 7.793 ug/l  
RT: 8.549 min Scan# 1194  
Delta R.T. 0.183 min  
Lab File: VX028174.D  
Acq: 19 Apr 2022 21:16

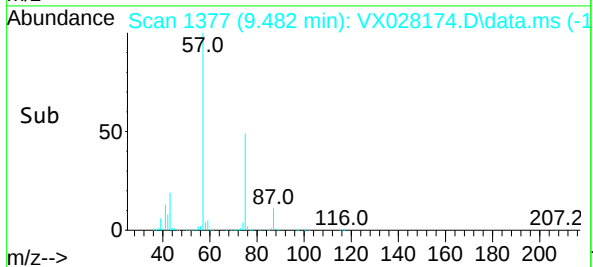
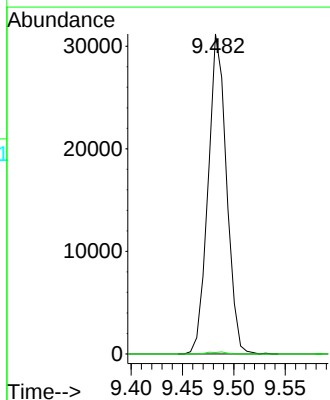
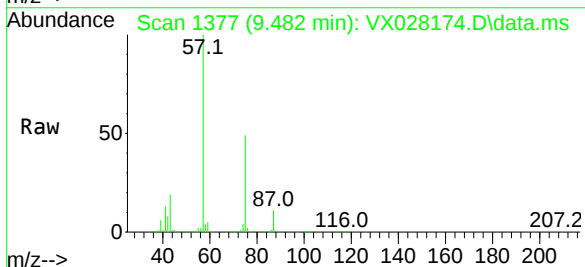
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144164ZHE#04

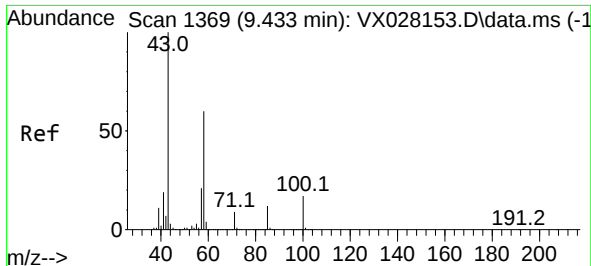
Tgt Ion: 75 Resp: 62791  
Ion Ratio Lower Upper  
75 100  
77 0.5 24.8 37.2#  
39 26.4 29.6 44.4#



#57  
1,3-Dichloropropane  
Concen: 4.469 ug/l  
RT: 9.482 min Scan# 1377  
Delta R.T. 0.171 min  
Lab File: VX028174.D  
Acq: 19 Apr 2022 21:16

Tgt Ion: 76 Resp: 38955  
Ion Ratio Lower Upper  
76 100  
78 0.6 25.8 38.8#





#59

2-Hexanone

Concen: 81.937 ug/l

RT: 9.482 min Scan# 1

Delta R.T. 0.049 min

Lab File: VX028174.D

Acq: 19 Apr 2022 21:16

Instrument :

MSVOA\_X

ClientSampleId :

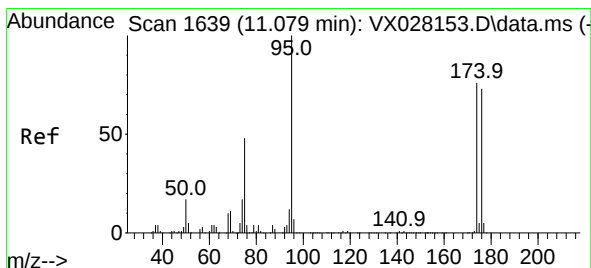
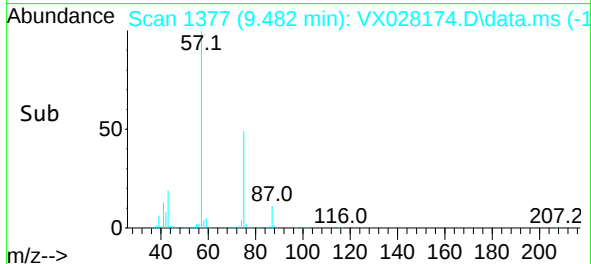
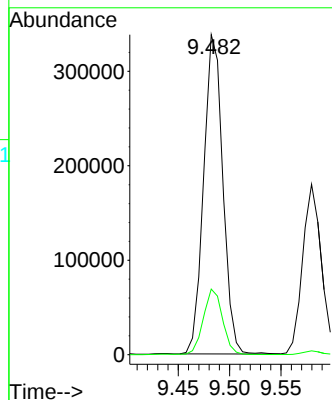
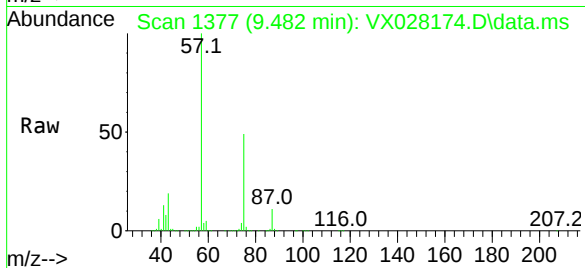
PB144164ZHE#04

Tgt Ion: 43 Resp: 439578

Ion Ratio Lower Upper

43 100

58 20.5 31.9 95.7#



#62

4-Bromofluorobenzene

Concen: 43.188 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX028174.D

Acq: 19 Apr 2022 21:16

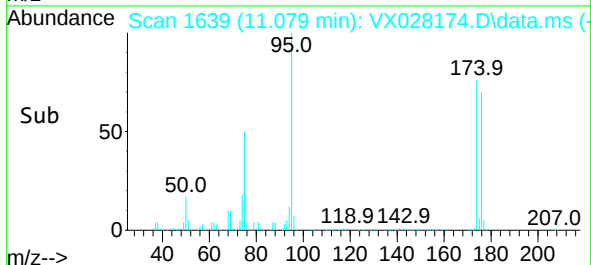
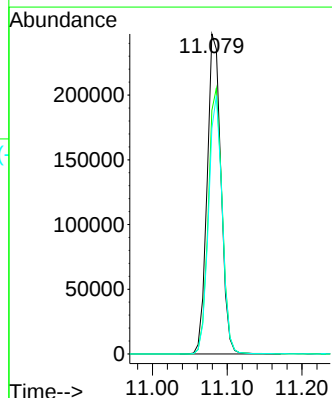
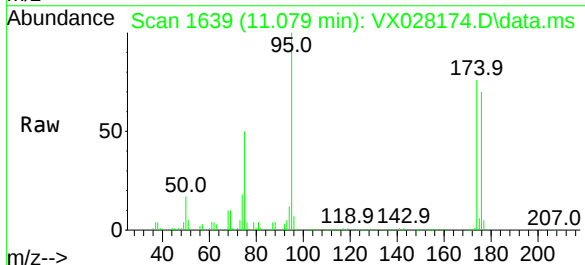
Tgt Ion: 95 Resp: 317778

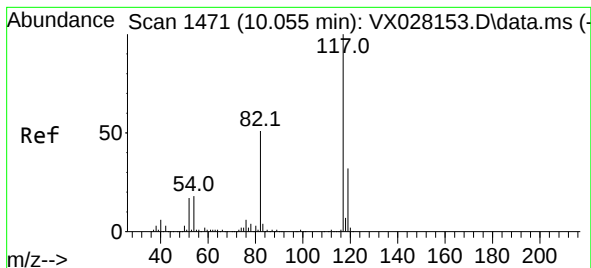
Ion Ratio Lower Upper

95 100

174 83.3 0.0 163.0

176 79.6 0.0 155.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX028174.D

Acq: 19 Apr 2022 21:16

Instrument :

MSVOA\_X

ClientSampleId :

PB144164ZHE#04

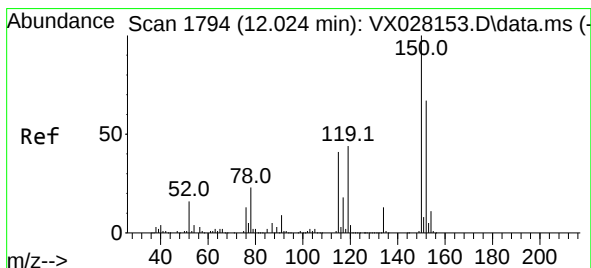
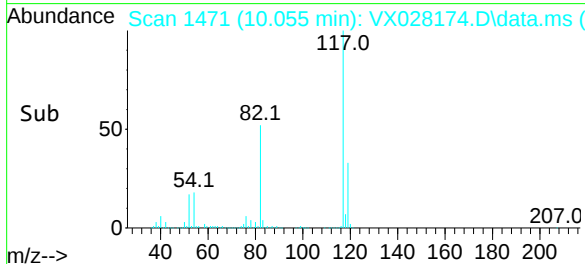
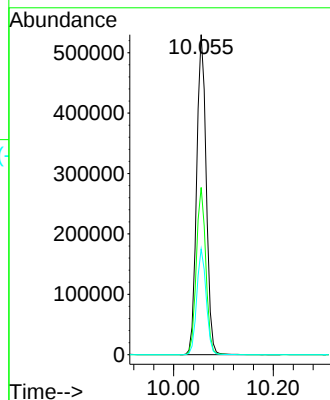
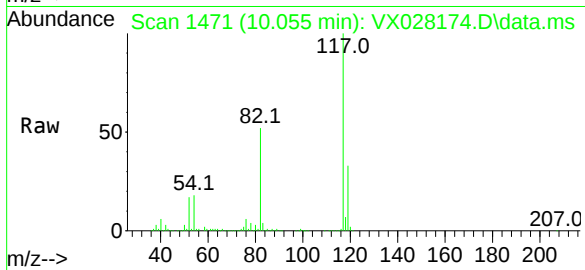
Tgt Ion:117 Resp: 705749

Ion Ratio Lower Upper

117 100

82 52.2 41.8 62.8

119 33.0 24.8 37.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX028174.D

Acq: 19 Apr 2022 21:16

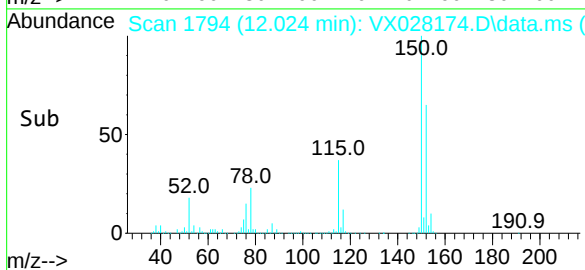
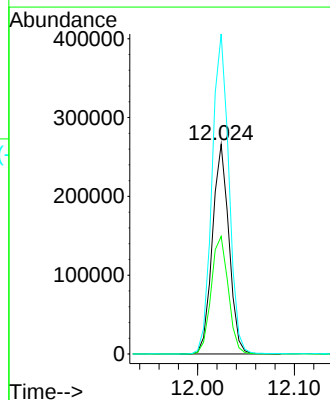
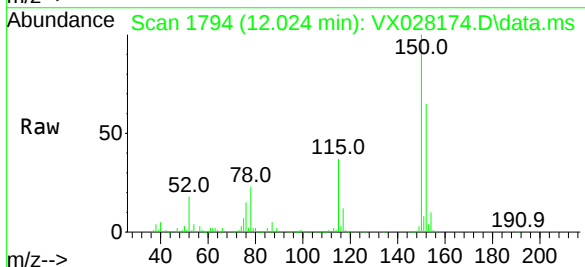
Tgt Ion:152 Resp: 316023

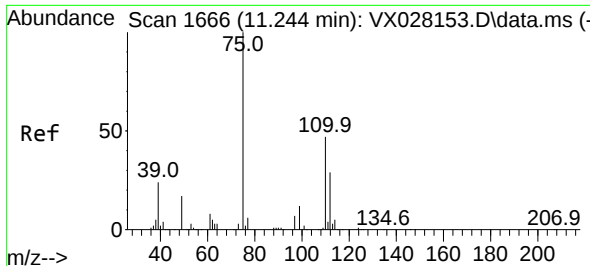
Ion Ratio Lower Upper

152 100

115 58.2 37.5 112.7

150 155.6 0.0 338.2

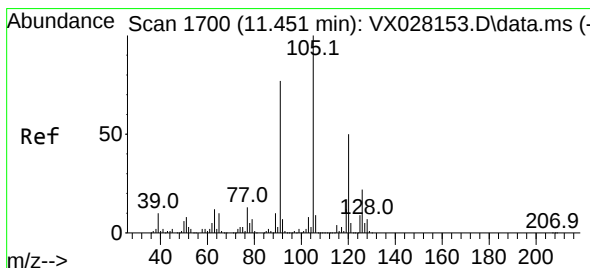
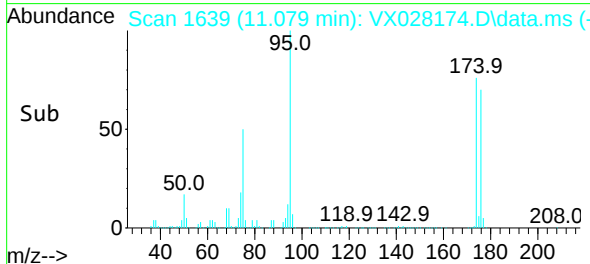
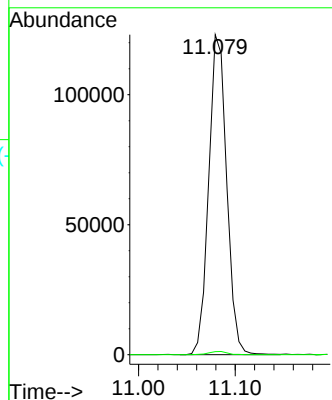
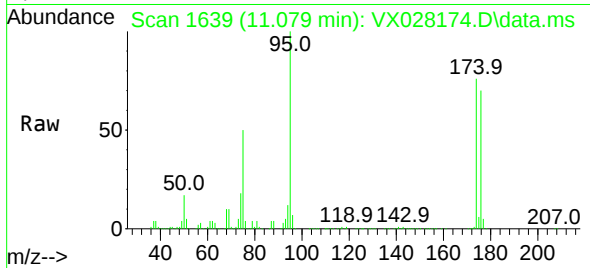




#76  
1,2,3-Trichloropropane  
Concen: 25.592 ug/l  
RT: 11.079 min Scan# 11  
Delta R.T. -0.165 min  
Lab File: VX028174.D  
Acq: 19 Apr 2022 21:16

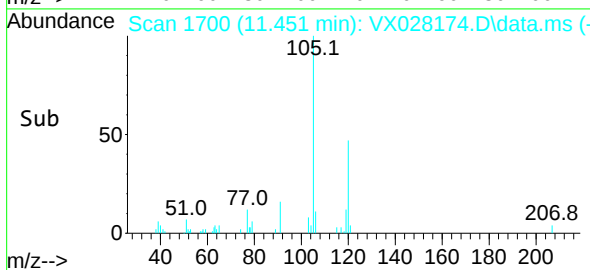
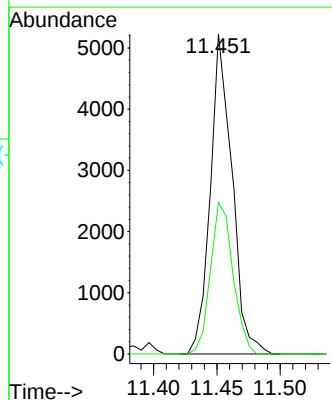
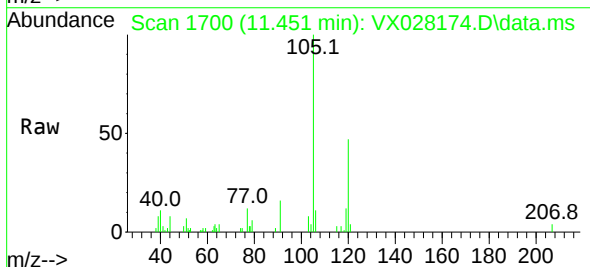
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144164ZHE#04

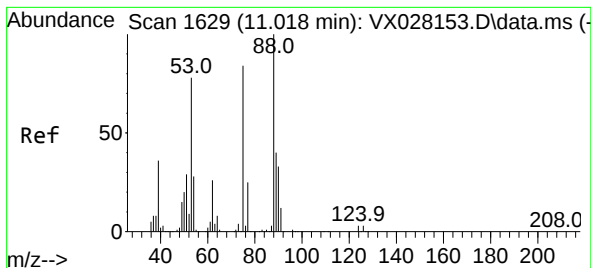
Tgt Ion: 75 Resp: 159170  
Ion Ratio Lower Upper  
75 100  
77 1.1 19.4 58.2#



#80  
1,3,5-Trimethylbenzene  
Concen: 0.338 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. 0.000 min  
Lab File: VX028174.D  
Acq: 19 Apr 2022 21:16

Tgt Ion: 105 Resp: 6235  
Ion Ratio Lower Upper  
105 100  
120 49.1 24.3 72.9

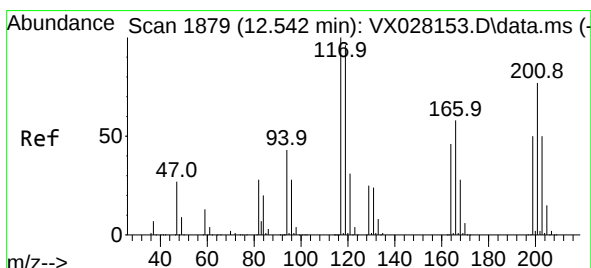
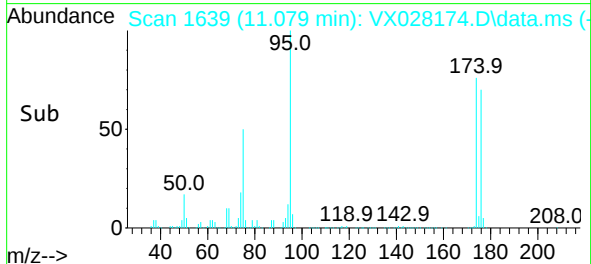
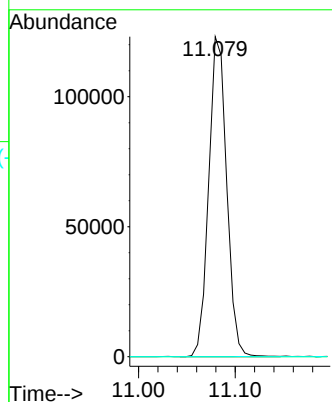
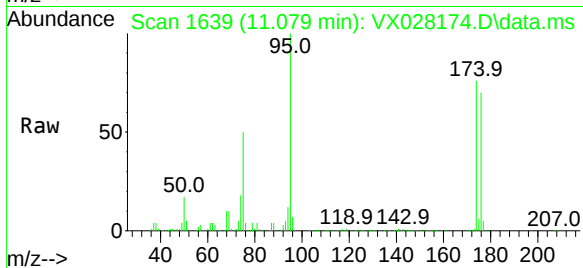




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 76.052 ug/l  
 RT: 11.079 min Scan# 11  
 Delta R.T. 0.061 min  
 Lab File: VX028174.D  
 Acq: 19 Apr 2022 21:16

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB144164ZHE#04

Tgt Ion: 75 Resp: 159170  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 69.0 103.4#  
 89 0.0 37.0 55.6#



#90  
 Hexachloroethane  
 Concen: 1.832 ug/l  
 RT: 12.701 min Scan# 1905  
 Delta R.T. 0.159 min  
 Lab File: VX028174.D  
 Acq: 19 Apr 2022 21:16

Tgt Ion: 117 Resp: 66  
 Ion Ratio Lower Upper  
 117 100  
 201 0.0 39.5 118.5#

