

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX051722\  
 Data File : VX028786.D  
 Acq On : 18 May 2022 02:59  
 Operator : JC/MD  
 Sample : PB144875ZHE#05  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB144875ZHE#05

Quant Time: May 18 05:01:25 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X051222W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 12 14:58:53 2022  
 Response via : Initial Calibration

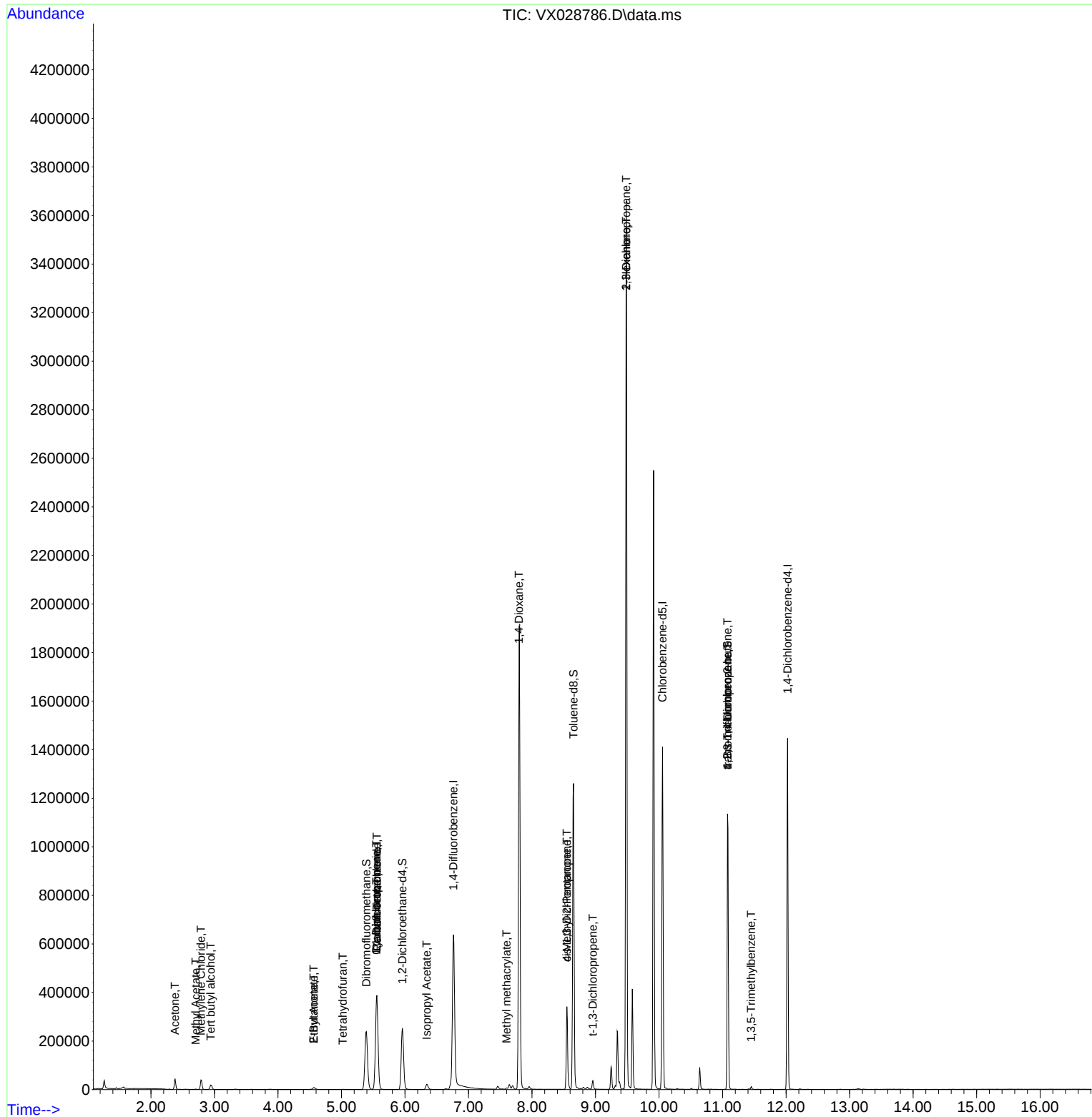
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 5.556     | 168   | 351361   | 50.000    | ug/l       | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.763     | 114   | 625854   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055    | 117   | 605816   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024    | 152   | 286092   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.958     | 65    | 255251   | 52.997    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 61 - 141 | Recovery  | = 106.000% |          |
| 35) Dibromofluoromethane      | 5.391     | 113   | 209178   | 51.013    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 69 - 133 | Recovery  | = 102.020% |          |
| 50) Toluene-d8                | 8.653     | 98    | 747048   | 48.322    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 65 - 126 | Recovery  | = 96.640%  |          |
| 62) 4-Bromofluorobenzene      | 11.079    | 95    | 305491   | 52.905    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 58 - 135 | Recovery  | = 105.820% |          |
| Target Compounds              |           |       |          |           |            |          |
|                               |           |       |          |           | Qvalue     |          |
| 5) Bromomethane               | 1.605     | 94    | 564      | Below Cal | #          | 46       |
| 6) Chloroethane               | 1.703     | 64    | 88       | Below Cal |            | 92       |
| 11) Tert butyl alcohol        | 2.940     | 59    | 10954    | 2.828     | ug/l       | # 75     |
| 16) Acetone                   | 2.380     | 43    | 44959    | 21.750    | ug/l       | 95       |
| 18) Methyl Acetate            | 2.703     | 43    | 2008     | 0.388     | ug/l       | 93       |
| 20) Methylene Chloride        | 2.788     | 84    | 17932    | 4.135     | ug/l       | 91       |
| 25) 2-Butanone                | 4.562     | 43    | 9384     | 2.892     | ug/l       | 94       |
| 29) Tetrahydrofuran           | 5.019     | 42    | 737      | 0.349     | ug/l       | # 37     |
| 31) Cyclohexane               | 5.550     | 56    | 7730     | 1.156     | ug/l       | # 1      |
| 36) 1,1-Dichloropropene       | 5.550     | 75    | 28654    | 4.652     | ug/l       | # 50     |
| 37) Ethyl Acetate             | 4.562     | 43    | 9384     | 1.459     | ug/l       | # 77     |
| 38) Carbon Tetrachloride      | 5.556     | 117   | 37860    | 6.108     | ug/l       | # 15     |
| 43) Isopropyl Acetate         | 6.342     | 43    | 30438    | 3.024     | ug/l       | 94       |
| 48) Methyl methacrylate       | 7.598     | 41    | 7786     | 1.602     | ug/l       | # 7      |
| 49) 1,4-Dioxane               | 7.793     | 88    | 282      | 2.322     | ug/l       | # 1      |
| 51) 4-Methyl-2-Pentanone      | 8.549     | 43    | 116218   | 17.532    | ug/l       | # 44     |
| 53) t-1,3-Dichloropropene     | 8.958     | 75    | 95       | 1.654     | ug/l       | # 43     |
| 54) cis-1,3-Dichloropropene   | 8.549     | 75    | 54533    | 7.915     | ug/l       | # 69     |
| 57) 1,3-Dichloropropane       | 9.482     | 76    | 33561    | 4.286     | ug/l       | # 43     |
| 59) 2-Hexanone                | 9.482     | 43    | 429380   | 83.371    | ug/l       | # 43     |
| 76) 1,2,3-Trichloropropane    | 11.079    | 75    | 163915   | 24.465    | ug/l       | # 38     |
| 80) 1,3,5-Trimethylbenzene    | 11.451    | 105   | 4905     | 0.271     | ug/l       | 95       |
| 81) trans-1,4-Dichloro-2-b... | 11.079    | 75    | 163915   | 71.206    | ug/l       | # 15     |
| -----                         |           |       |          |           |            |          |

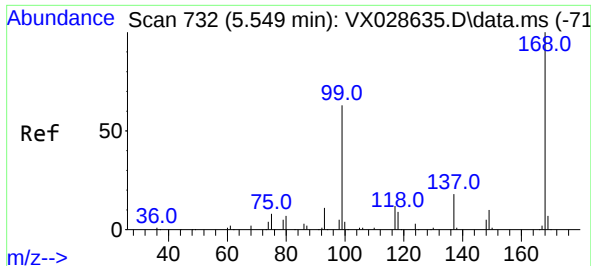
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu May 12 14:58:53 2022  
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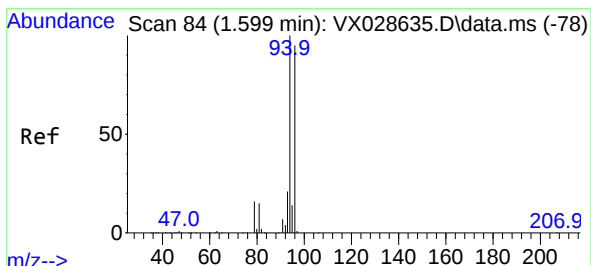
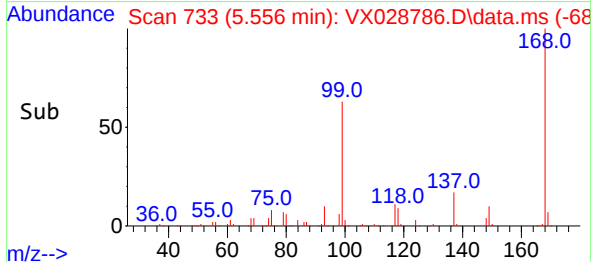
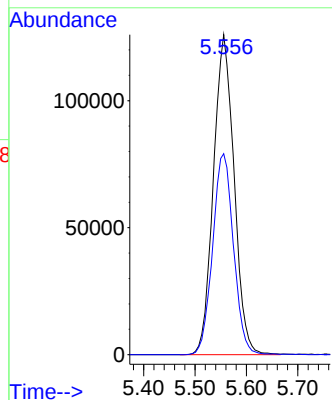
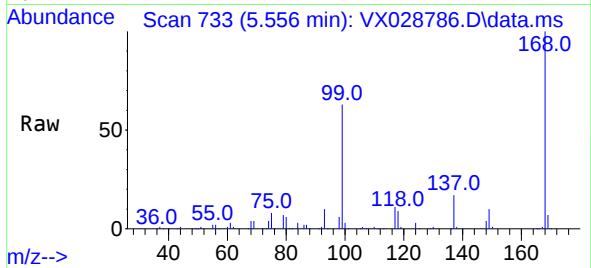




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.007 min  
Lab File: VX028786.D  
Acq: 18 May 2022 02:59

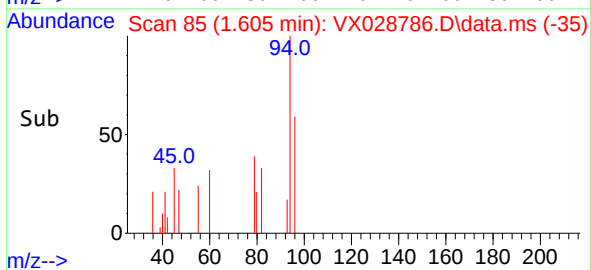
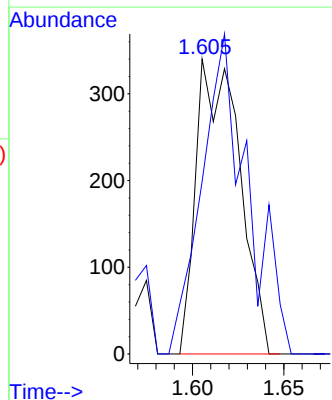
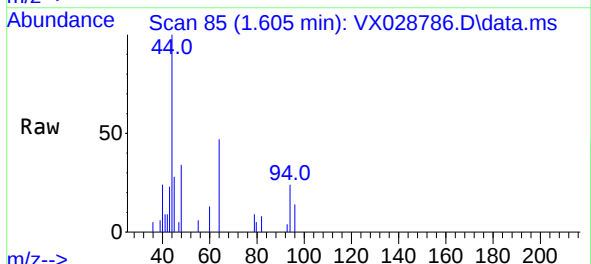
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144875ZHE#05

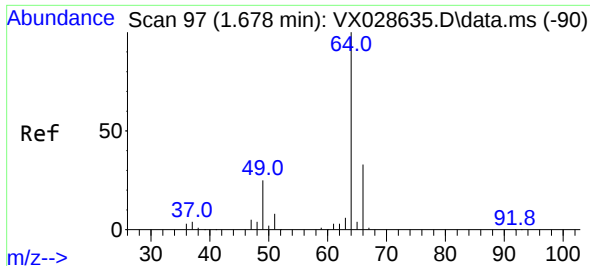
Tgt Ion:168 Resp: 351361  
Ion Ratio Lower Upper  
168 100  
99 62.8 41.7 62.5#



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.605 min Scan# 85  
Delta R.T. 0.006 min  
Lab File: VX028786.D  
Acq: 18 May 2022 02:59

Tgt Ion: 94 Resp: 564  
Ion Ratio Lower Upper  
94 100  
96 41.8 75.3 112.9#

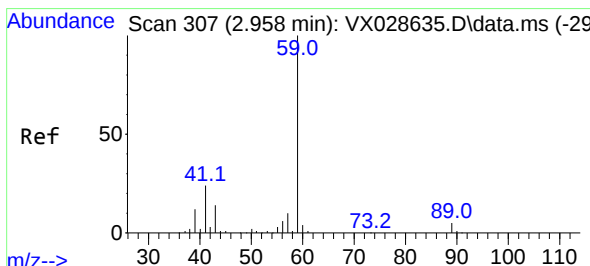
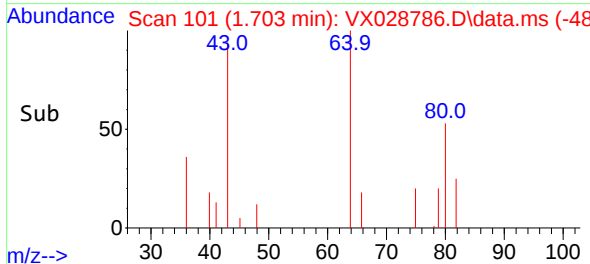
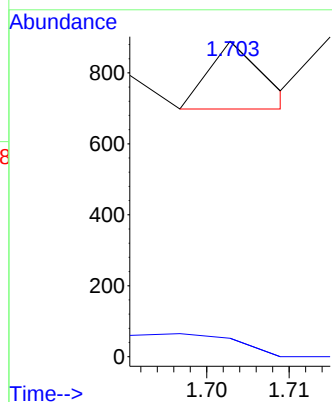
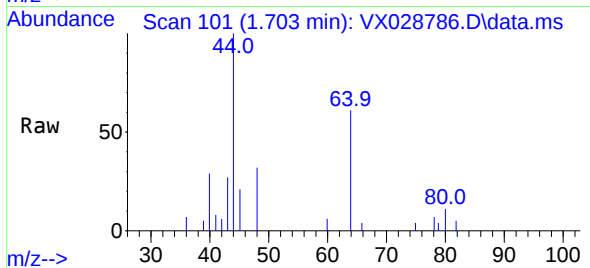




#6  
Chloroethane  
Concen: Below Cal  
RT: 1.703 min Scan# 101  
Delta R.T. 0.025 min  
Lab File: VX028786.D  
Acq: 18 May 2022 02:59

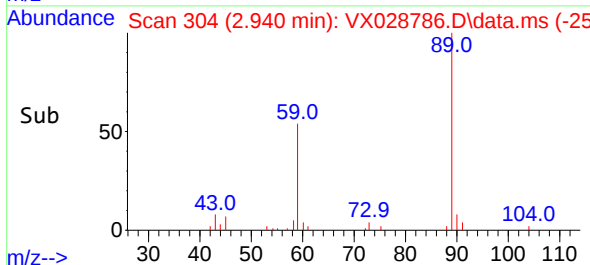
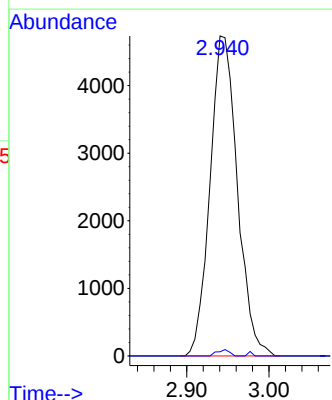
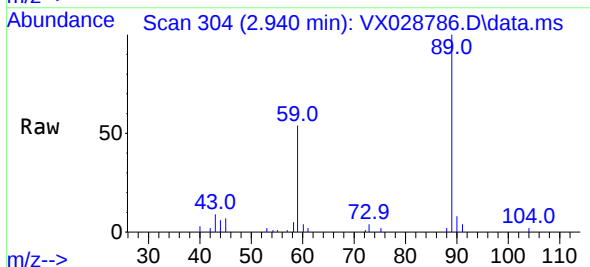
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144875ZHE#05

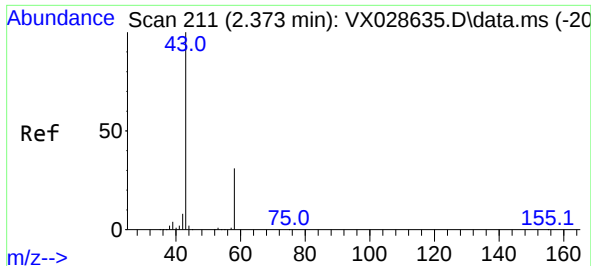
Tgt Ion: 64 Resp: 88  
Ion Ratio Lower Upper  
64 100  
66 27.2 25.3 37.9



#11  
Tert butyl alcohol  
Concen: 2.828 ug/l  
RT: 2.940 min Scan# 304  
Delta R.T. -0.018 min  
Lab File: VX028786.D  
Acq: 18 May 2022 02:59

Tgt Ion: 59 Resp: 10954  
Ion Ratio Lower Upper  
59 100  
57 0.9 8.3 12.5#

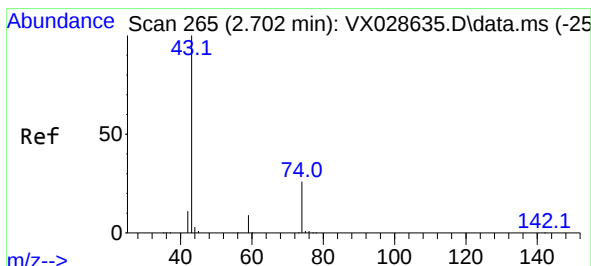
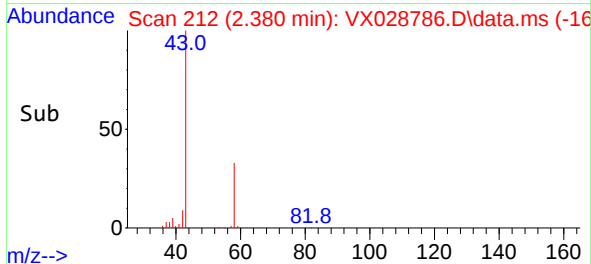
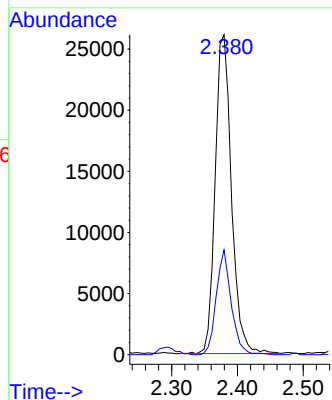
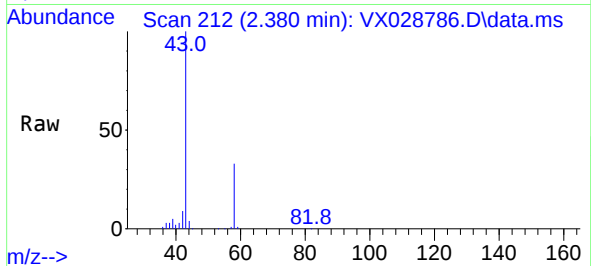




#16  
Acetone  
Concen: 21.750 ug/l  
RT: 2.380 min Scan# 211  
Delta R.T. 0.007 min  
Lab File: VX028786.D  
Acq: 18 May 2022 02:59

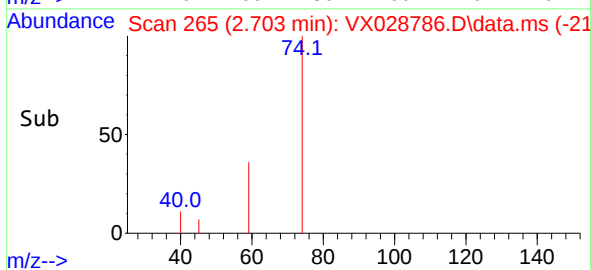
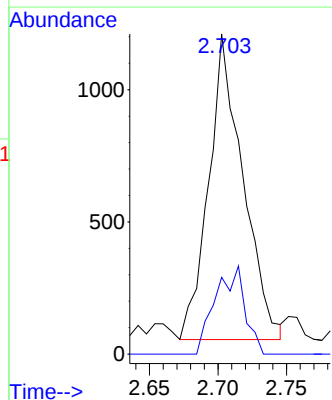
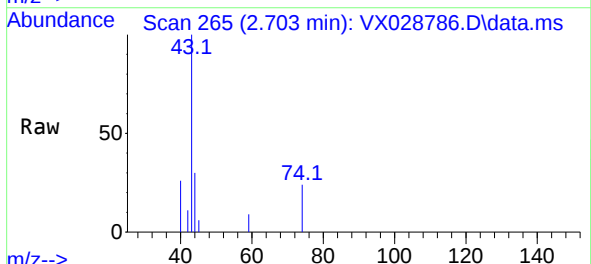
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144875ZHE#05

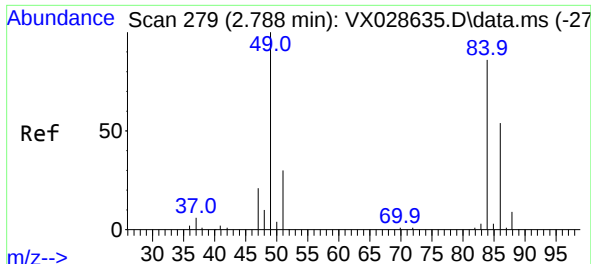
Tgt Ion: 43 Resp: 44959  
Ion Ratio Lower Upper  
43 100  
58 32.9 28.8 43.2



#18  
Methyl Acetate  
Concen: 0.388 ug/l  
RT: 2.703 min Scan# 265  
Delta R.T. 0.001 min  
Lab File: VX028786.D  
Acq: 18 May 2022 02:59

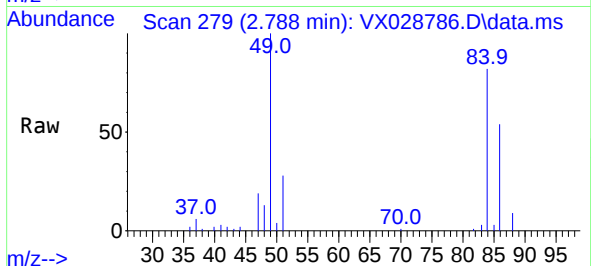
Tgt Ion: 43 Resp: 2008  
Ion Ratio Lower Upper  
43 100  
74 24.9 22.8 34.2





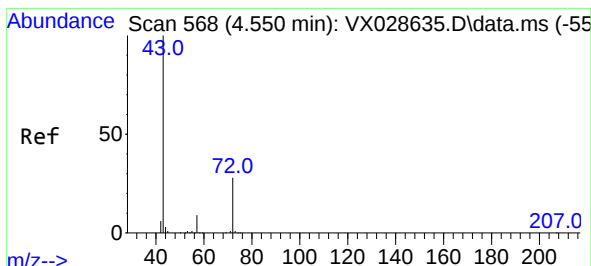
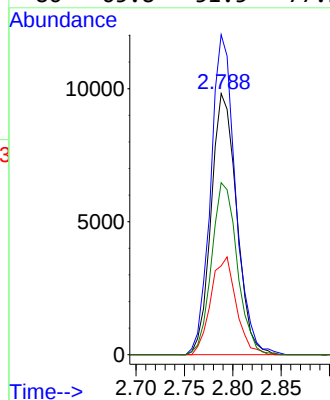
#20  
Methylene Chloride  
Concen: 4.135 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VX028786.D  
Acq: 18 May 2022 02:59

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144875ZHE#05



Tgt Ion: 84 Resp: 17932

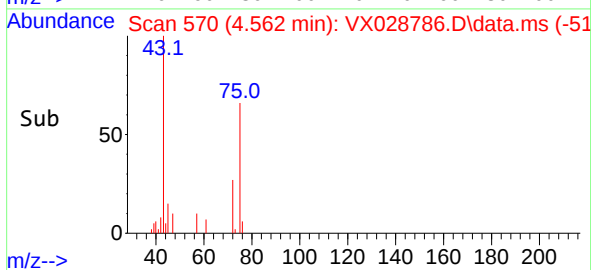
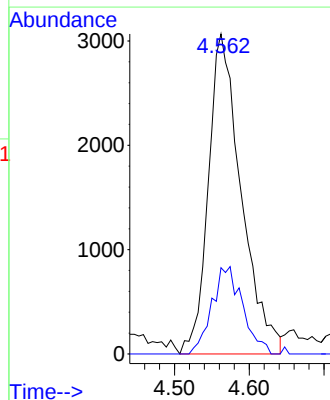
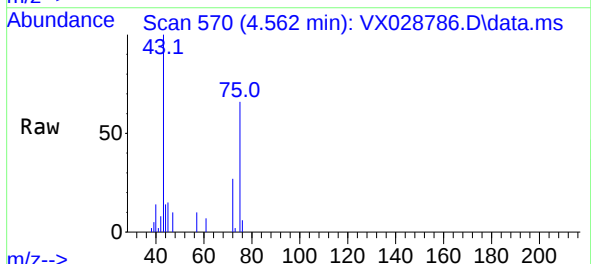
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 122.5 | 85.5  | 128.3 |
| 51  | 34.0  | 26.6  | 39.8  |
| 86  | 65.8  | 51.5  | 77.3  |

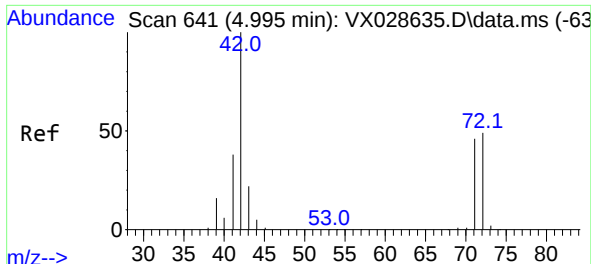


#25  
2-Butanone  
Concen: 2.892 ug/l  
RT: 4.562 min Scan# 570  
Delta R.T. 0.012 min  
Lab File: VX028786.D  
Acq: 18 May 2022 02:59

Tgt Ion: 43 Resp: 9384

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 27.0  | 24.4  | 36.6  |





#29

Tetrahydrofuran

Concen: 0.349 ug/l

RT: 5.019 min Scan# 641

Delta R.T. 0.024 min

Lab File: VX028786.D

Acq: 18 May 2022 02:59

Instrument :

MSVOA\_X

ClientSampleId :

PB144875ZHE#05

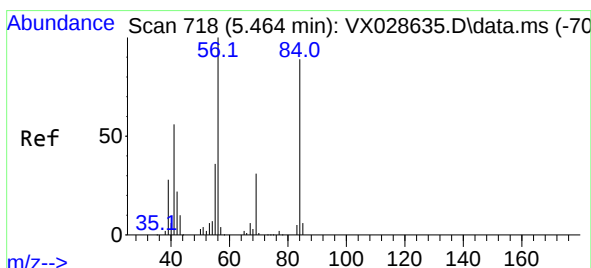
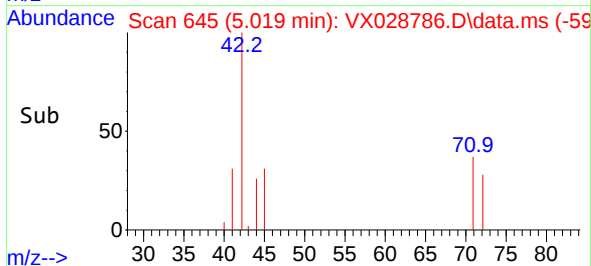
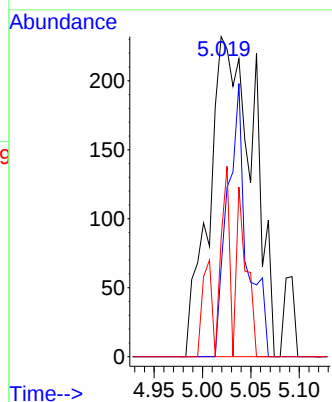
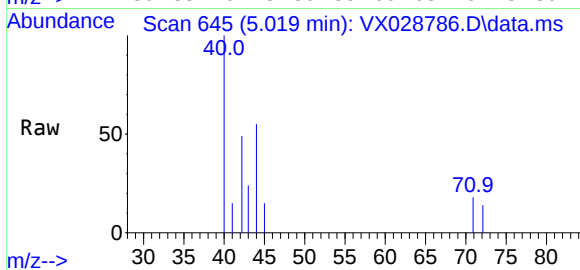
Tgt Ion: 42 Resp: 737

Ion Ratio Lower Upper

42 100

72 0.0 44.1 66.1#

71 17.5 40.5 60.7#



#31

Cyclohexane

Concen: 1.156 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.086 min

Lab File: VX028786.D

Acq: 18 May 2022 02:59

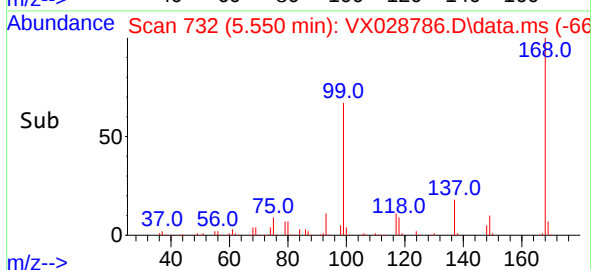
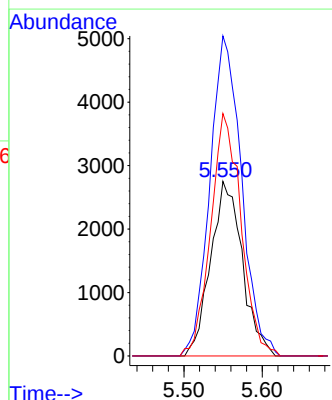
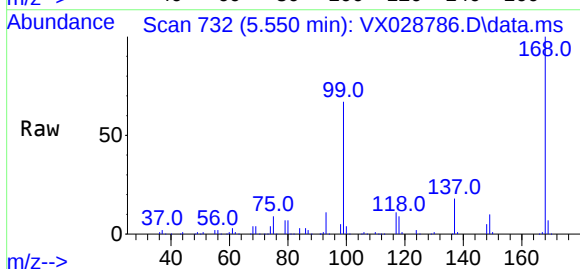
Tgt Ion: 56 Resp: 7730

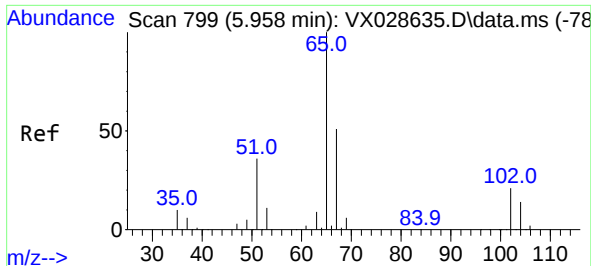
Ion Ratio Lower Upper

56 100

69 183.4 26.7 40.1#

84 138.9 77.2 115.8#





#33

1,2-Dichloroethane-d4

Concen: 52.997 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX028786.D

Acq: 18 May 2022 02:59

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ClientSampleId :

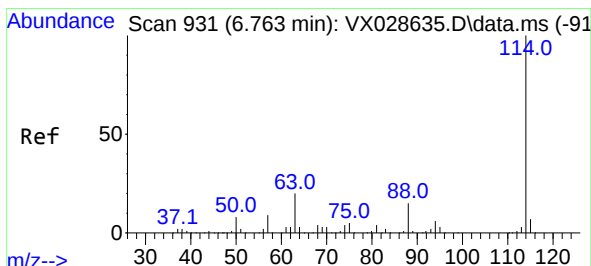
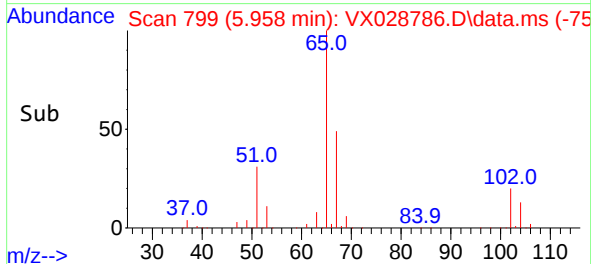
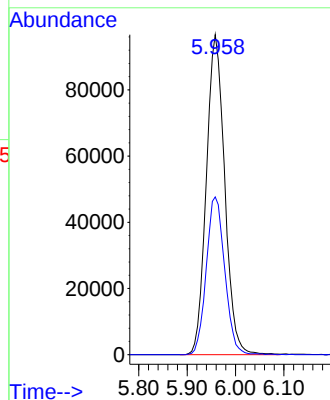
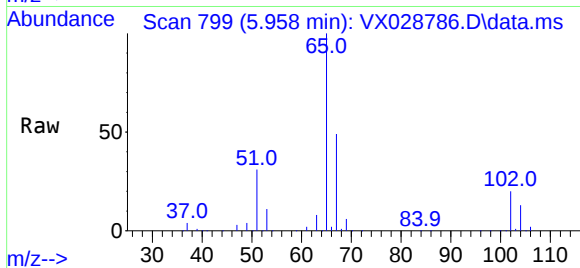
PB144875ZHE#05

Tgt Ion: 65 Resp: 255251

Ion Ratio Lower Upper

65 100

67 49.5 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: VX028786.D

Acq: 18 May 2022 02:59

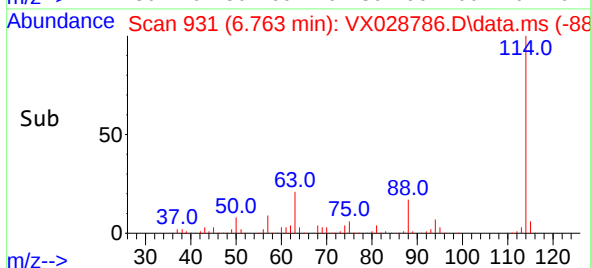
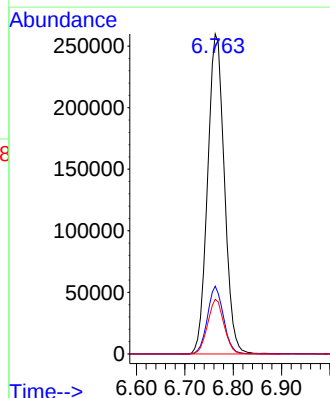
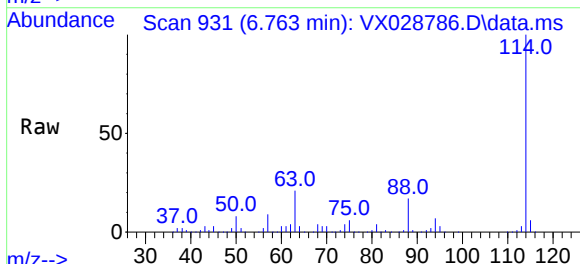
Tgt Ion: 114 Resp: 625854

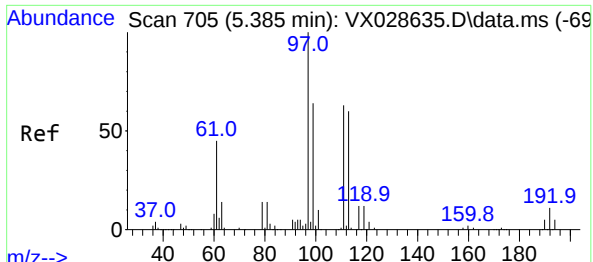
Ion Ratio Lower Upper

114 100

63 21.2 0.0 36.8

88 17.1 0.0 32.4

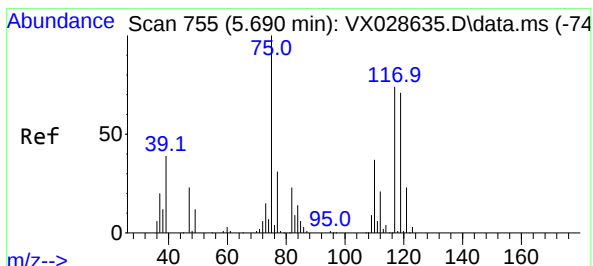
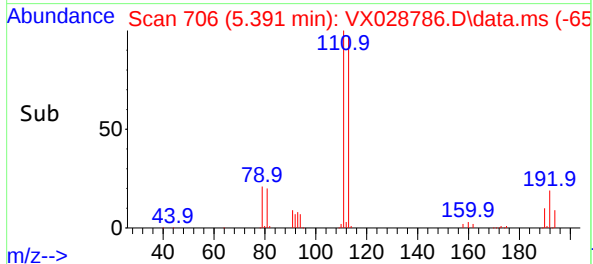
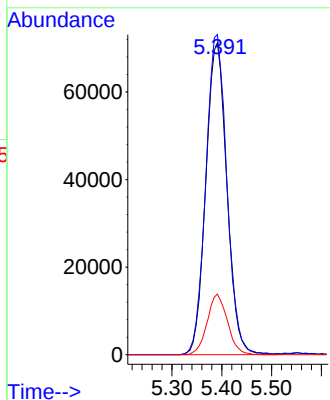
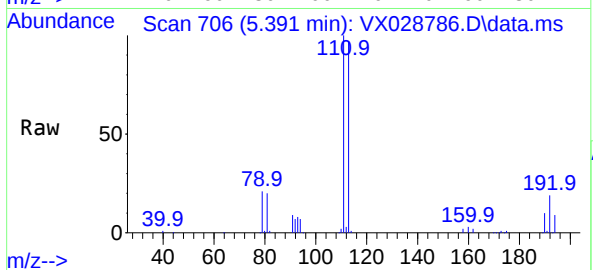




#35  
Dibromofluoromethane  
Concen: 51.013 ug/l  
RT: 5.391 min Scan# 705  
Delta R.T. 0.006 min  
Lab File: VX028786.D  
Acq: 18 May 2022 02:59

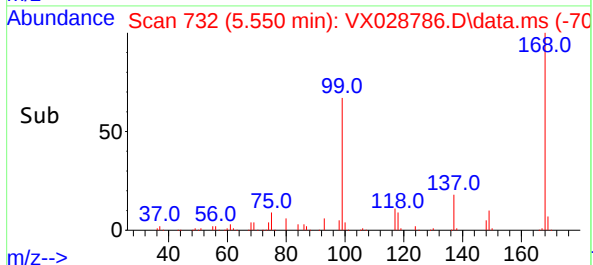
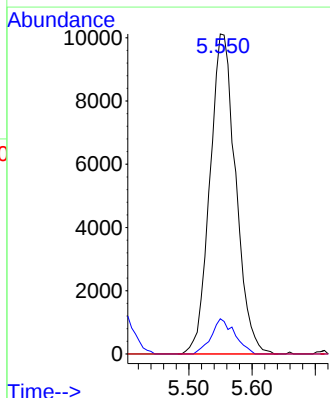
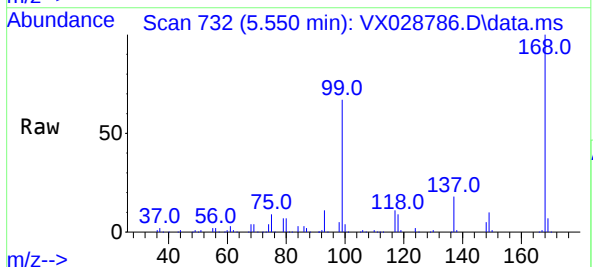
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144875ZHE#05

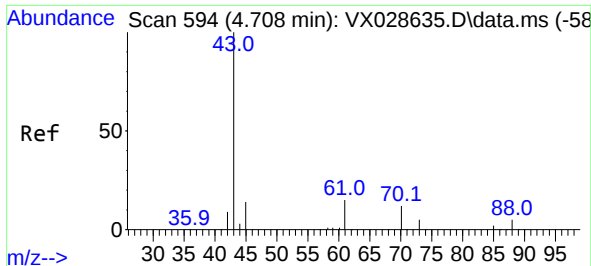
Tgt Ion:113 Resp: 209178  
Ion Ratio Lower Upper  
113 100  
111 102.7 82.8 124.2  
192 18.7 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 4.652 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.140 min  
Lab File: VX028786.D  
Acq: 18 May 2022 02:59

Tgt Ion: 75 Resp: 28654  
Ion Ratio Lower Upper  
75 100  
110 10.0 18.3 54.8#  
77 0.0 24.8 37.2#





#37

Ethyl Acetate

Concen: 1.459 ug/l

RT: 4.562 min Scan# 51

Delta R.T. -0.146 min

Lab File: VX028786.D

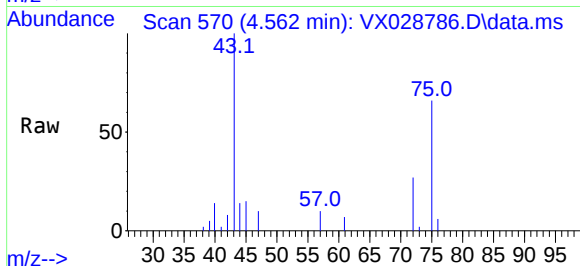
Acq: 18 May 2022 02:59

Instrument :

MSVOA\_X

ClientSampleId :

PB144875ZHE#05



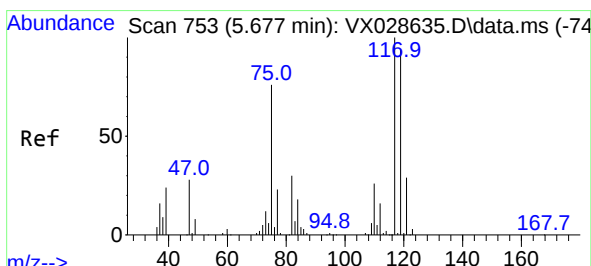
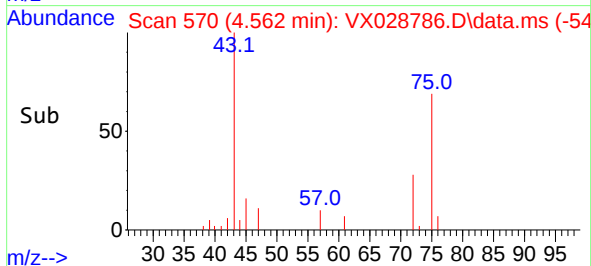
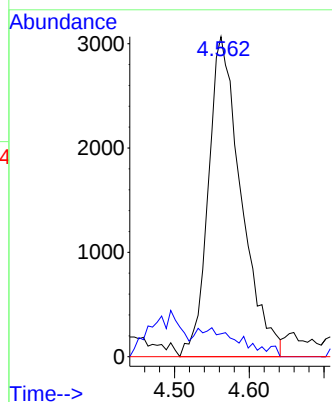
Tgt Ion: 43 Resp: 9384

Ion Ratio Lower Upper

43 100

61 9.1 12.6 19.0#

70 0.0 10.2 15.2#



#38

Carbon Tetrachloride

Concen: 6.108 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.121 min

Lab File: VX028786.D

Acq: 18 May 2022 02:59

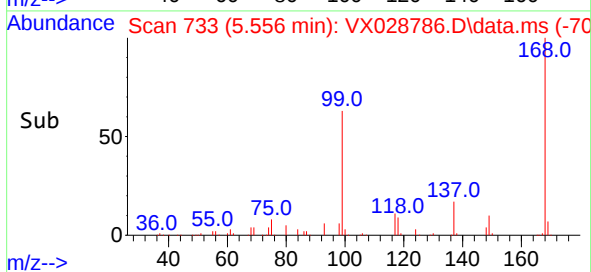
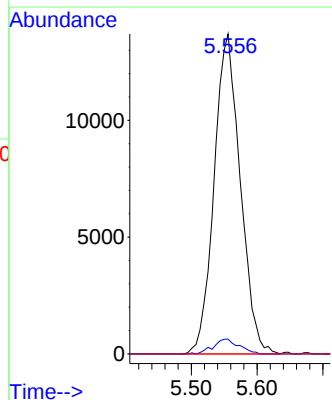
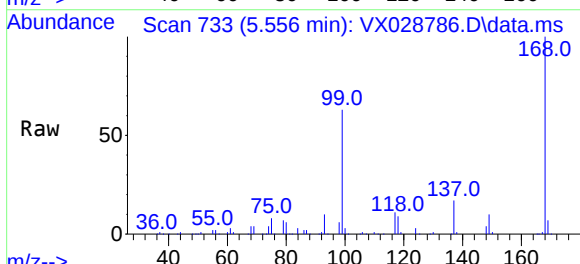
Tgt Ion: 117 Resp: 37860

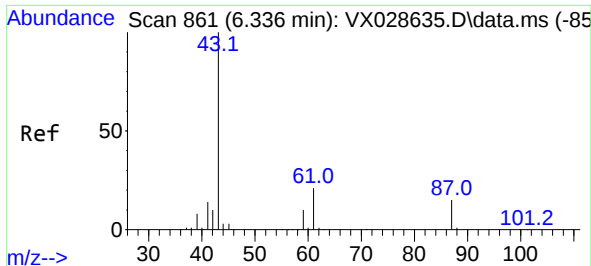
Ion Ratio Lower Upper

117 100

119 4.7 77.3 115.9#

121 0.0 24.2 36.2#

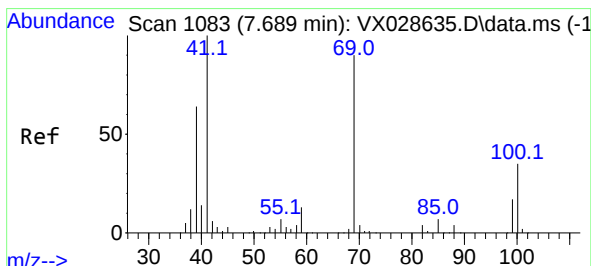
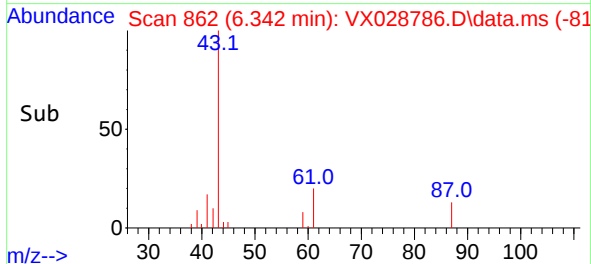
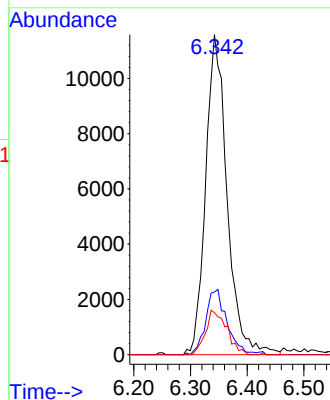
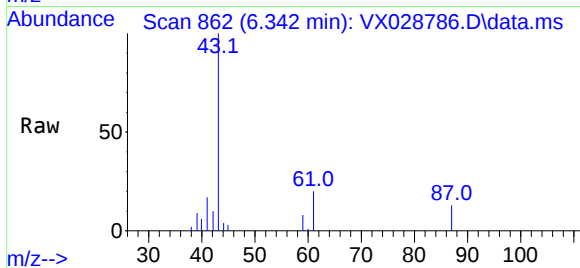




#43  
Isopropyl Acetate  
Concen: 3.024 ug/l  
RT: 6.342 min Scan# 80  
Delta R.T. 0.006 min  
Lab File: VX028786.D  
Acq: 18 May 2022 02:59

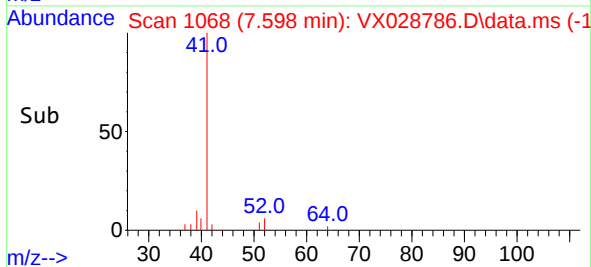
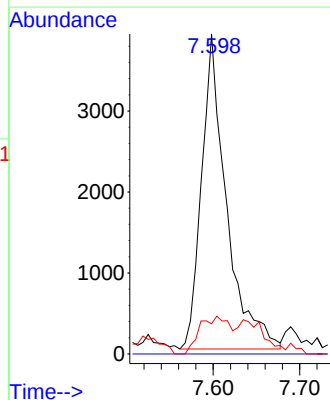
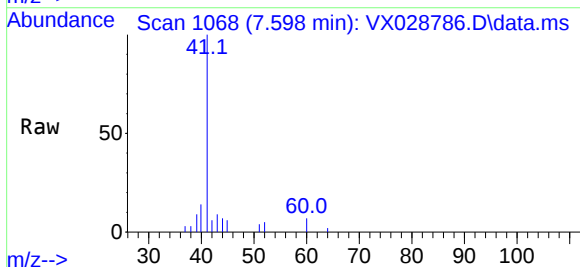
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144875ZHE#05

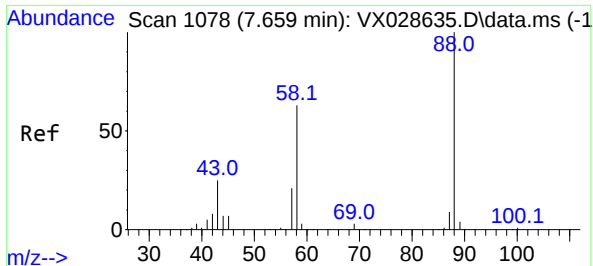
Tgt Ion: 43 Resp: 30438  
Ion Ratio Lower Upper  
43 100  
61 20.4 18.5 27.7  
87 13.7 13.0 19.6



#48  
Methyl methacrylate  
Concen: 1.602 ug/l  
RT: 7.598 min Scan# 1068  
Delta R.T. -0.091 min  
Lab File: VX028786.D  
Acq: 18 May 2022 02:59

Tgt Ion: 41 Resp: 7786  
Ion Ratio Lower Upper  
41 100  
69 0.0 82.5 123.7#  
39 0.0 43.8 65.8#

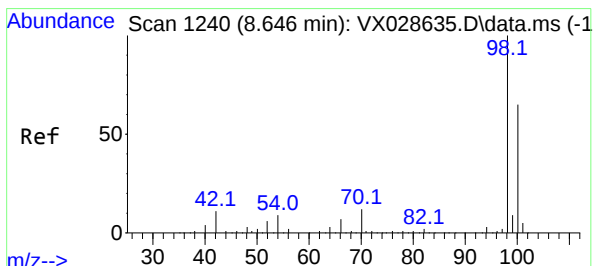
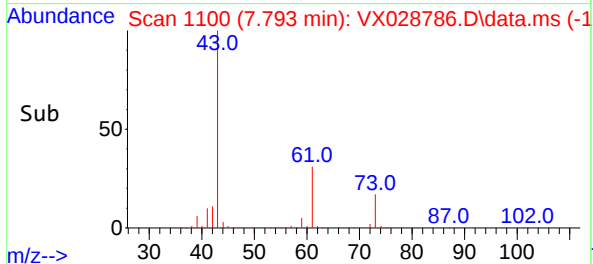
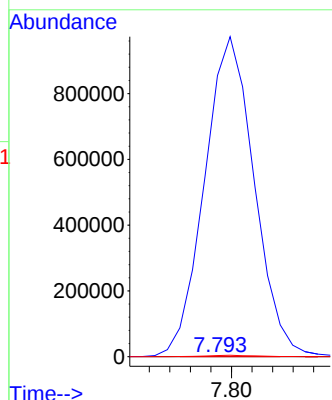
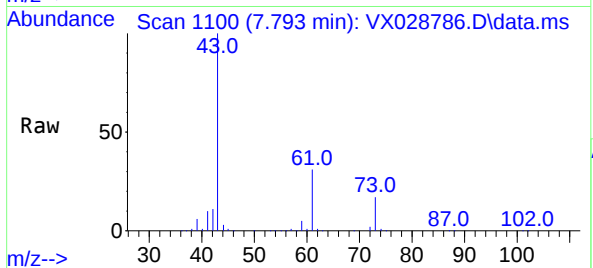




#49  
1,4-Dioxane  
Concen: 2.322 ug/l  
RT: 7.793 min Scan# 1100  
Delta R.T. 0.134 min  
Lab File: VX028786.D  
Acq: 18 May 2022 02:59

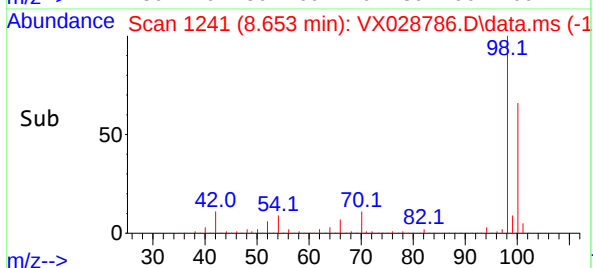
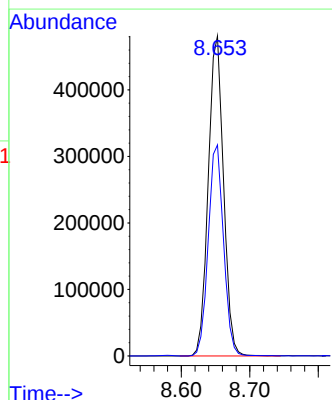
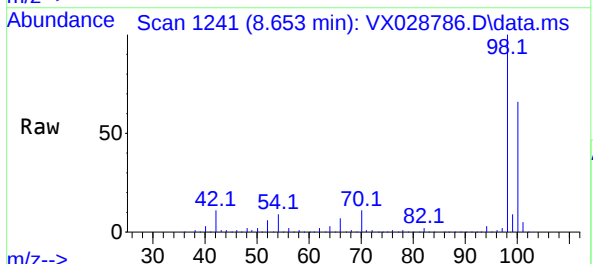
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144875ZHE#05

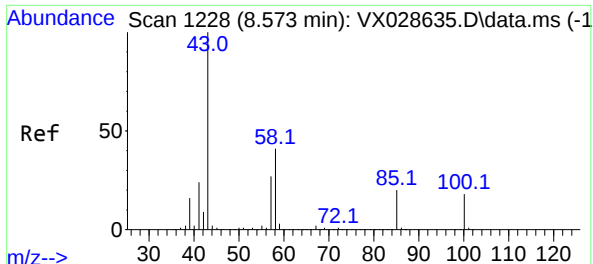
Tgt Ion: 88 Resp: 282  
Ion Ratio Lower Upper  
88 100  
43 584631.6 21.9 32.9#  
58 2502.8 53.7 80.5#



#50  
Toluene-d8  
Concen: 48.322 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.007 min  
Lab File: VX028786.D  
Acq: 18 May 2022 02:59

Tgt Ion: 98 Resp: 747048  
Ion Ratio Lower Upper  
98 100  
100 66.1 52.6 78.8





#51

4-Methyl-2-Pentanone

Concen: 17.532 ug/l

RT: 8.549 min Scan# 1162

Delta R.T. -0.024 min

Lab File: VX028786.D

Acq: 18 May 2022 02:59

Instrument :

MSVOA\_X

ClientSampleId :

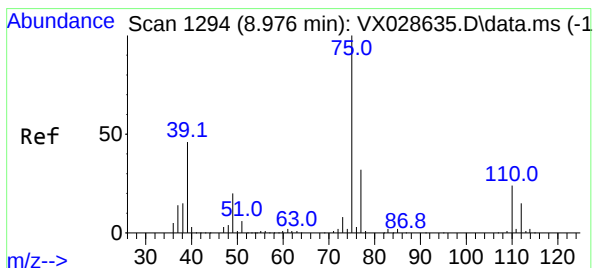
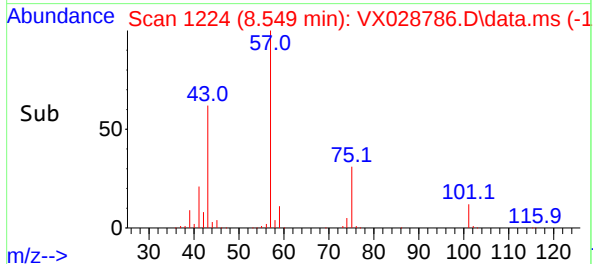
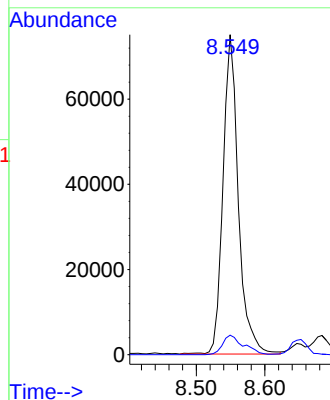
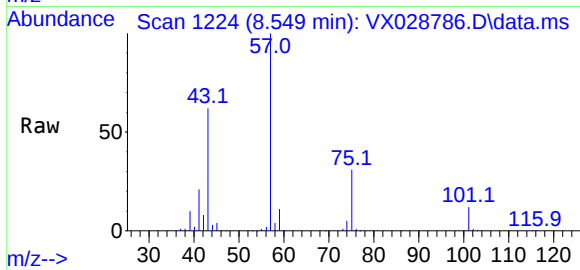
PB144875ZHE#05

Tgt Ion: 43 Resp: 116218

Ion Ratio Lower Upper

43 100

58 8.4 36.1 54.1#



#53

t-1,3-Dichloropropene

Concen: 1.654 ug/l

RT: 8.958 min Scan# 1291

Delta R.T. -0.018 min

Lab File: VX028786.D

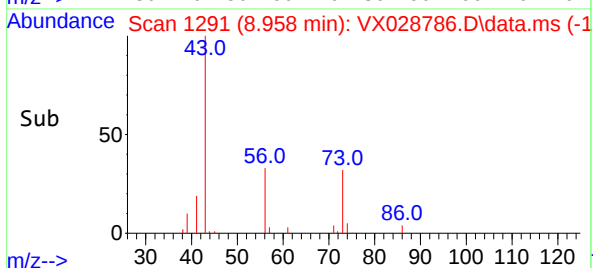
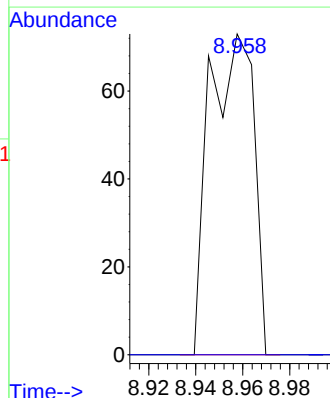
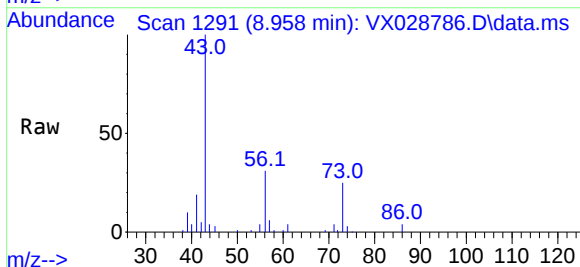
Acq: 18 May 2022 02:59

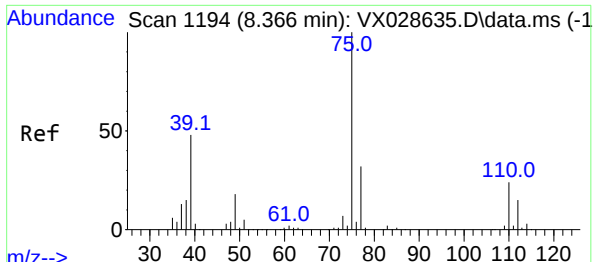
Tgt Ion: 75 Resp: 95

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

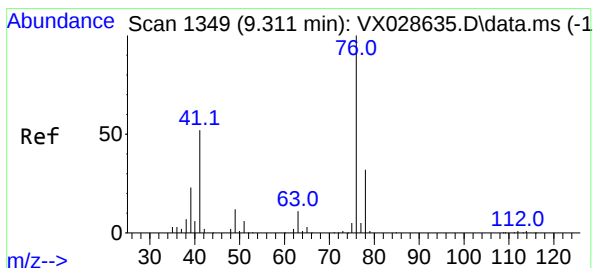
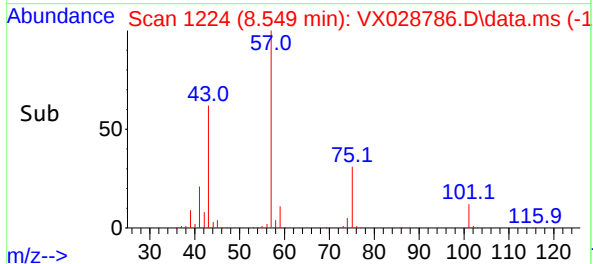
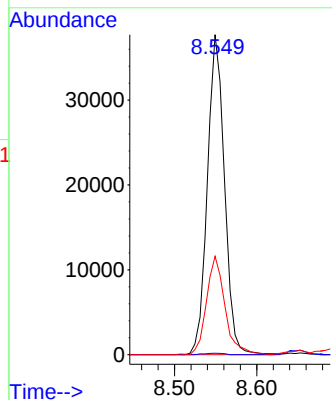
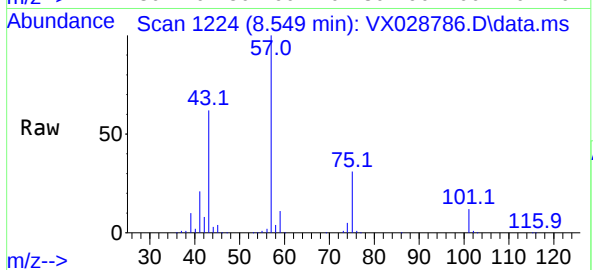




#54  
 cis-1,3-Dichloropropene  
 Concen: 7.915 ug/l  
 RT: 8.549 min Scan# 1194  
 Delta R.T. 0.183 min  
 Lab File: VX028786.D  
 Acq: 18 May 2022 02:59

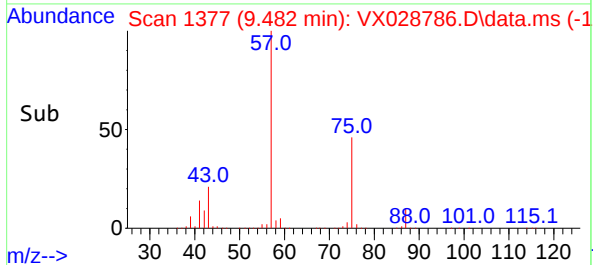
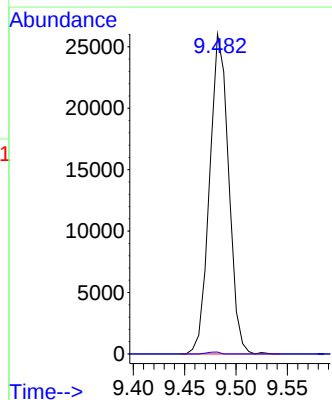
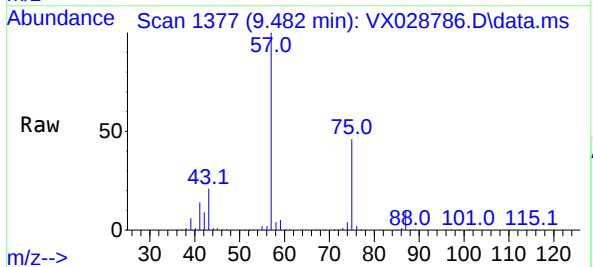
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB144875ZHE#05

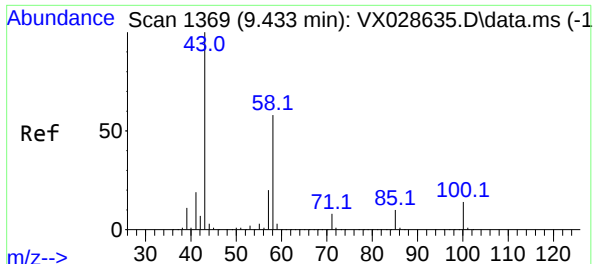
Tgt Ion: 75 Resp: 54533  
 Ion Ratio Lower Upper  
 75 100  
 77 0.5 24.8 37.2#  
 39 30.6 29.6 44.4



#57  
 1,3-Dichloropropane  
 Concen: 4.286 ug/l  
 RT: 9.482 min Scan# 1377  
 Delta R.T. 0.171 min  
 Lab File: VX028786.D  
 Acq: 18 May 2022 02:59

Tgt Ion: 76 Resp: 33561  
 Ion Ratio Lower Upper  
 76 100  
 78 0.4 25.8 38.8#





#59

2-Hexanone

Concen: 83.371 ug/l

RT: 9.482 min Scan# 1

Delta R.T. 0.049 min

Lab File: VX028786.D

Acq: 18 May 2022 02:59

Instrument :

MSVOA\_X

ClientSampleId :

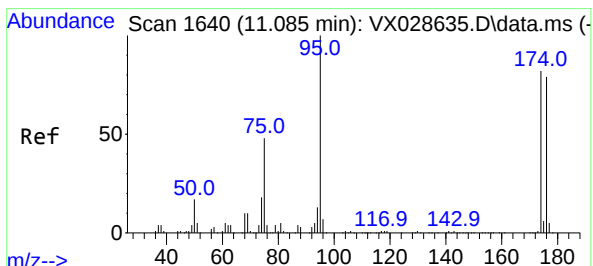
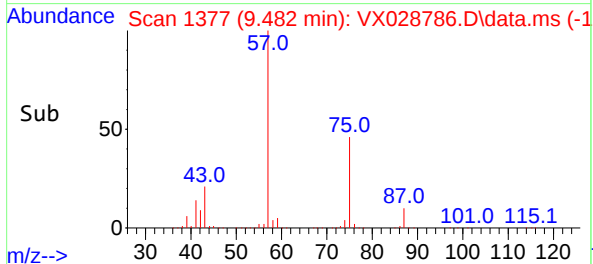
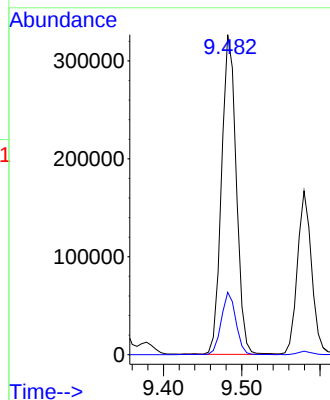
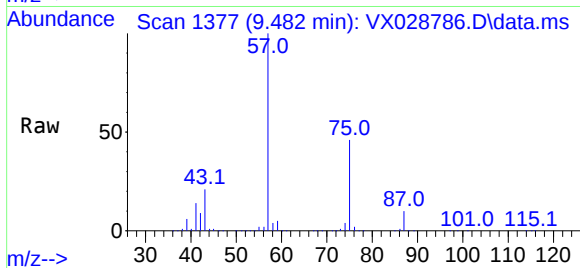
PB144875ZHE#05

Tgt Ion: 43 Resp: 429380

Ion Ratio Lower Upper

43 100

58 19.1 31.9 95.7#



#62

4-Bromofluorobenzene

Concen: 52.905 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.006 min

Lab File: VX028786.D

Acq: 18 May 2022 02:59

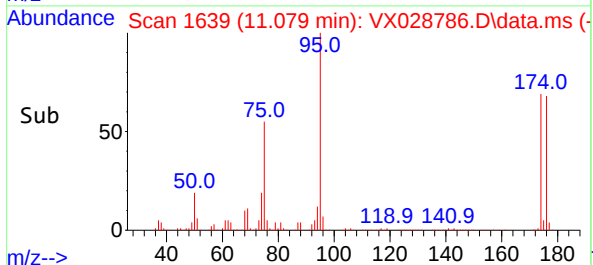
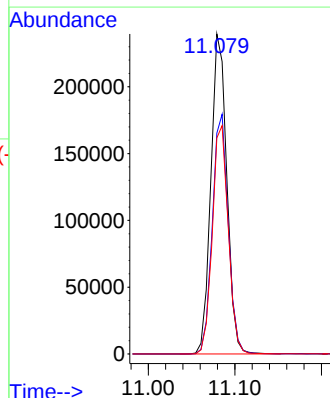
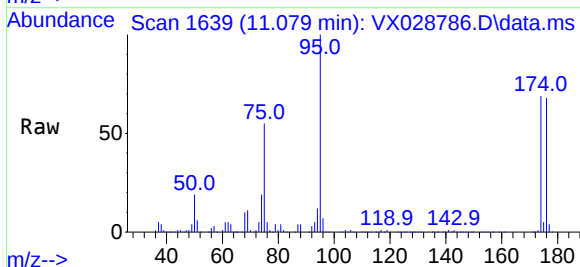
Tgt Ion: 95 Resp: 305491

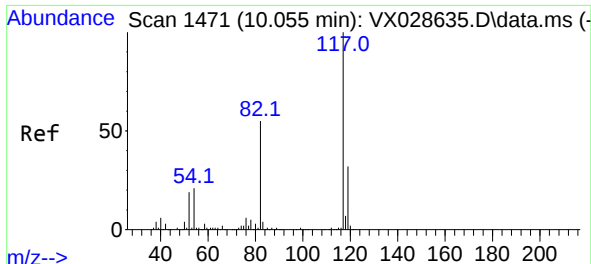
Ion Ratio Lower Upper

95 100

174 74.8 0.0 163.0

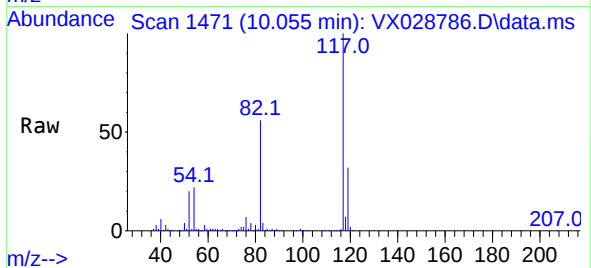
176 71.7 0.0 155.0



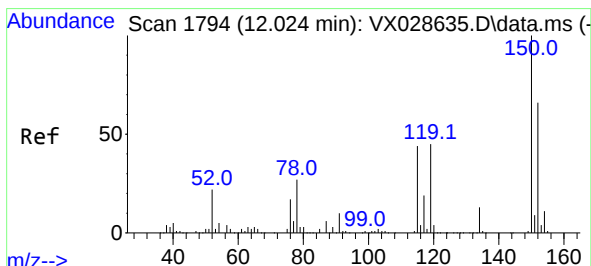
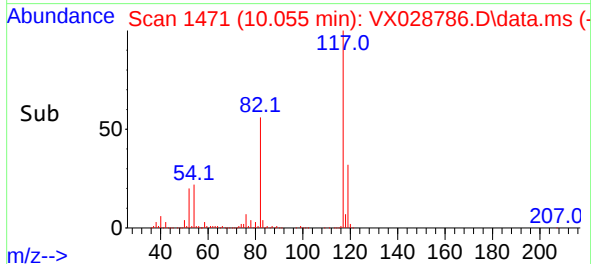
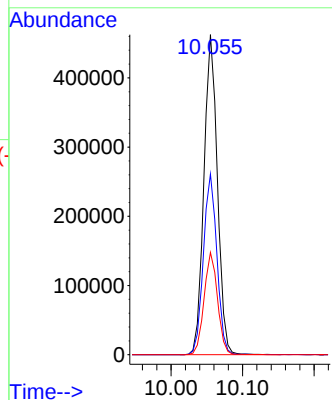


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX028786.D  
Acq: 18 May 2022 02:59

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144875ZHE#05

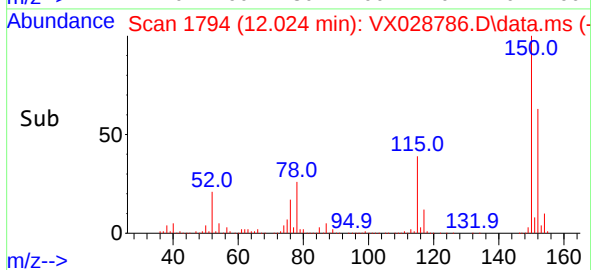
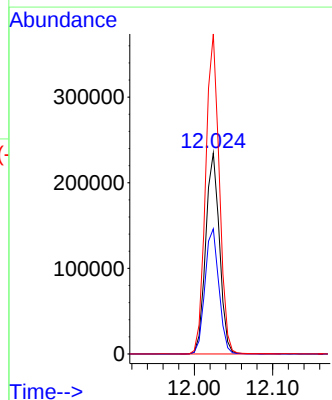
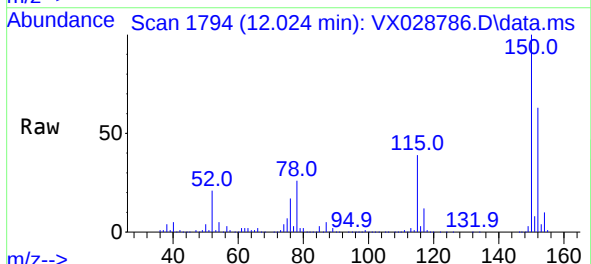


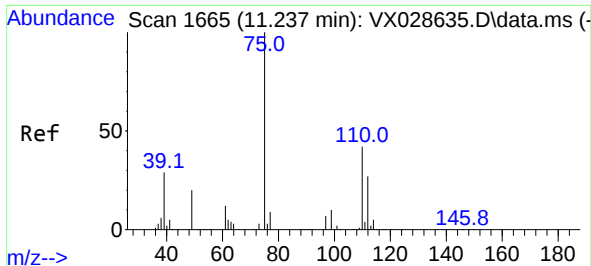
Tgt Ion:117 Resp: 605816  
Ion Ratio Lower Upper  
117 100  
82 56.4 41.8 62.8  
119 31.9 24.8 37.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX028786.D  
Acq: 18 May 2022 02:59

Tgt Ion:152 Resp: 286092  
Ion Ratio Lower Upper  
152 100  
115 63.0 37.5 112.7  
150 157.8 0.0 338.2

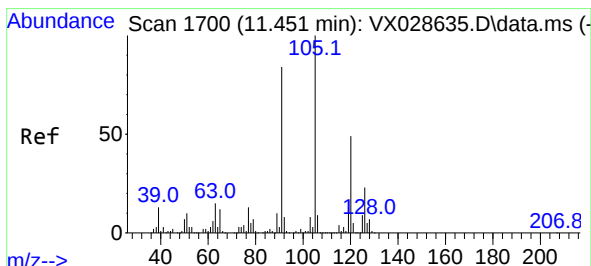
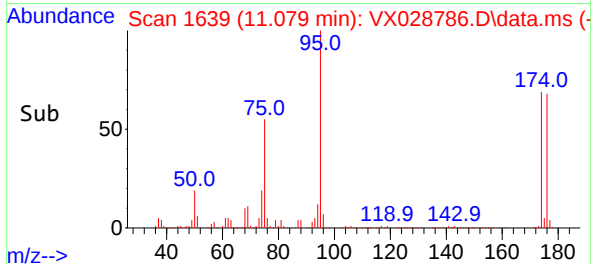
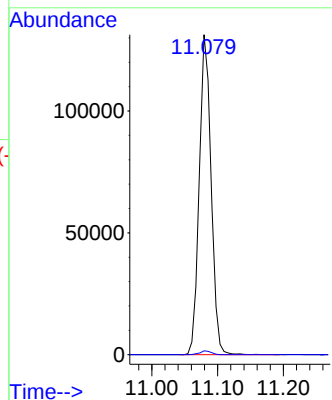
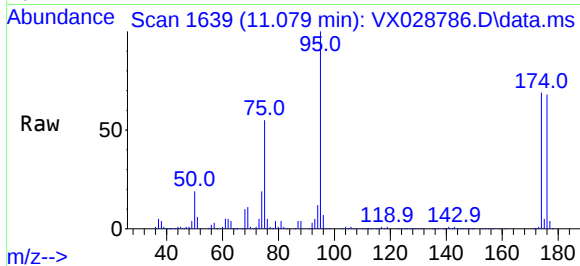




#76  
1,2,3-Trichloropropane  
Concen: 24.465 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX028786.D  
Acq: 18 May 2022 02:59

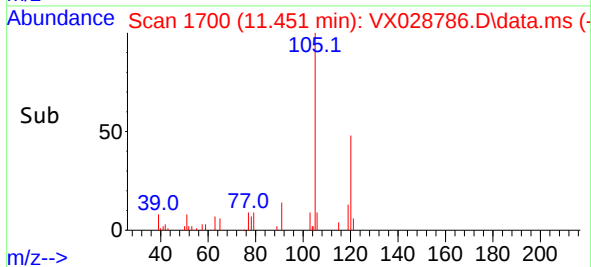
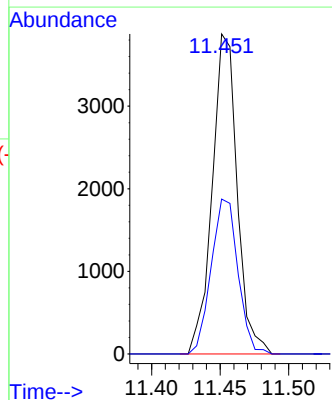
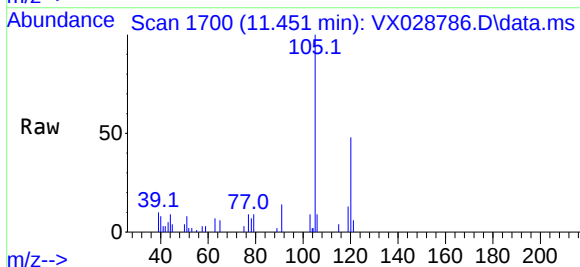
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144875ZHE#05

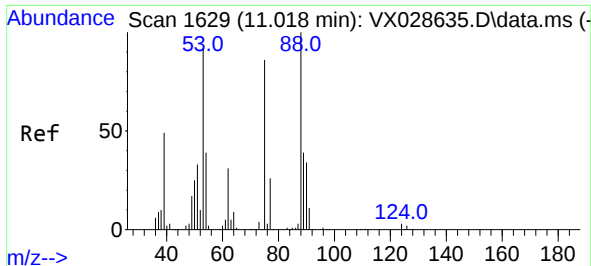
Tgt Ion: 75 Resp: 163915  
Ion Ratio Lower Upper  
75 100  
77 1.1 19.4 58.2#



#80  
1,3,5-Trimethylbenzene  
Concen: 0.271 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. 0.000 min  
Lab File: VX028786.D  
Acq: 18 May 2022 02:59

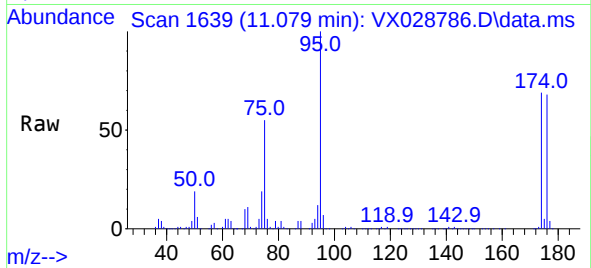
Tgt Ion: 105 Resp: 4905  
Ion Ratio Lower Upper  
105 100  
120 51.9 24.3 72.9





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 71.206 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX028786.D  
 Acq: 18 May 2022 02:59

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB144875ZHE#05



Tgt Ion: 75 Resp: 163915  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 69.0 103.4#  
 89 0.0 37.0 55.6#

