

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060621\  
 Data File : VX022509.D  
 Acq On : 07 Jun 2021 04:19  
 Operator : JC/MD  
 Sample : PB136857ZHE#03  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB136857ZHE#03

Quant Time: Jun 07 06:18:42 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X051921W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 19 14:23:10 2021  
 Response via : Initial Calibration

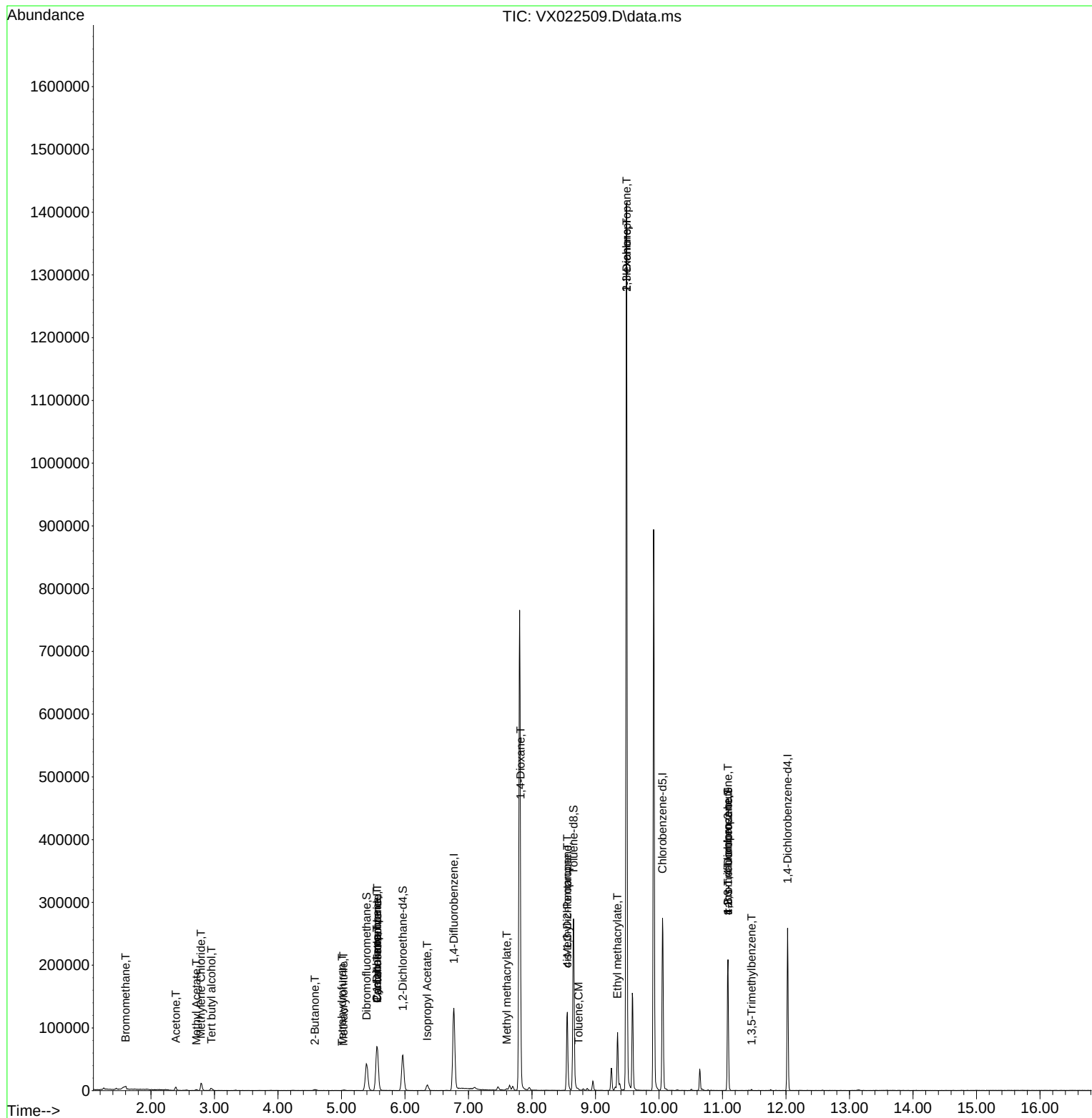
| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| -----                         |        |       |          |          |       |          |
| Internal Standards            |        |       |          |          |       |          |
| 1) Pentafluorobenzene         | 5.562  | 168   | 60150    | 50.000   | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.769  | 114   | 126235   | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 117412   | 50.000   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 45205    | 50.000   | ug/l  | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 33) 1,2-Dichloroethane-d4     | 5.964  | 65    | 51912    | 55.948   | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =     | 111.900% |
| 35) Dibromofluoromethane      | 5.397  | 113   | 37071    | 46.309   | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =     | 92.620%  |
| 50) Toluene-d8                | 8.653  | 98    | 157338   | 51.022   | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =     | 102.040% |
| 62) 4-Bromofluorobenzene      | 11.085 | 95    | 57046    | 50.049   | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =     | 100.100% |
| Target Compounds              |        |       |          |          |       |          |
|                               |        |       |          |          |       | Qvalue   |
| 5) Bromomethane               | 1.599  | 94    | 155      | 0.319    | ug/l  | # 79     |
| 11) Tert butyl alcohol        | 2.953  | 59    | 2156     | 10.159   | ug/l  | # 73     |
| 16) Acetone                   | 2.392  | 43    | 5807     | 14.373   | ug/l  | 97       |
| 18) Methyl Acetate            | 2.715  | 43    | 1929     | 1.795    | ug/l  | # 88     |
| 20) Methylene Chloride        | 2.788  | 84    | 5005     | 5.579    | ug/l  | 89       |
| 25) 2-Butanone                | 4.581  | 43    | 2234     | 3.418    | ug/l  | # 69     |
| 29) Tetrahydrofuran           | 5.007  | 42    | 235      | 0.604    | ug/l  | # 27     |
| 31) Cyclohexane               | 5.556  | 56    | 1730     | 1.484    | ug/l  | # 17     |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 6030     | 5.166    | ug/l  | # 48     |
| 38) Carbon Tetrachloride      | 5.562  | 117   | 6757     | 5.918    | ug/l  | # 16     |
| 41) Methacrylonitrile         | 5.032  | 41    | 282      | 0.368    | ug/l  | # 37     |
| 43) Isopropyl Acetate         | 6.349  | 43    | 12257    | 5.237    | ug/l  | # 92     |
| 48) Methyl methacrylate       | 7.604  | 41    | 3336     | 3.093    | ug/l  | # 10     |
| 49) 1,4-Dioxane               | 7.818  | 88    | 48       | 2.286    | ug/l  | # 1      |
| 51) 4-Methyl-2-Pentanone      | 8.555  | 43    | 43834    | 31.266   | ug/l  | # 45     |
| 52) Toluene                   | 8.732  | 92    | 479      | 0.211    | ug/l  | 91       |
| 54) cis-1,3-Dichloropropene   | 8.555  | 75    | 19912    | 12.900   | ug/l  | # 64     |
| 56) Ethyl methacrylate        | 9.342  | 69    | 350      | 0.235    | ug/l  | # 1      |
| 57) 1,3-Dichloropropane       | 9.488  | 76    | 11517    | 7.306    | ug/l  | # 42     |
| 59) 2-Hexanone                | 9.488  | 43    | 162500   | 154.109  | ug/l  | # 44     |
| 76) 1,2,3-Trichloropropane    | 11.085 | 75    | 30520    | 27.367   | ug/l  | # 39     |
| 80) 1,3,5-Trimethylbenzene    | 11.457 | 105   | 718      | 0.226    | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-b... | 11.085 | 75    | 30520    | 64.842   | ug/l  | # 12     |
| -----                         |        |       |          |          |       |          |

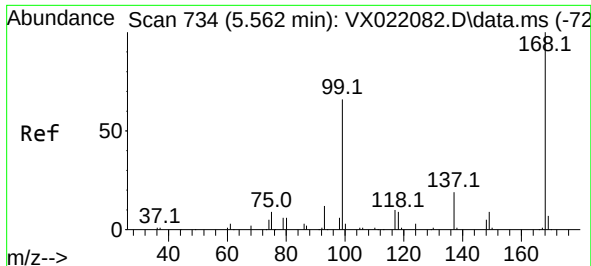
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060621\  
Data File : VX022509.D  
Acq On : 07 Jun 2021 04:19  
Operator : JC/MD  
Sample : PB136857ZHE#03  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB136857ZHE#03

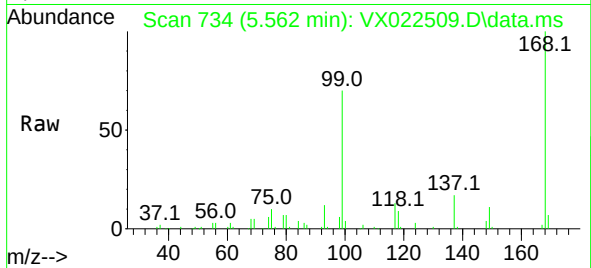
Quant Time: Jun 07 06:18:42 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X051921W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 19 14:23:10 2021  
Response via : Initial Calibration



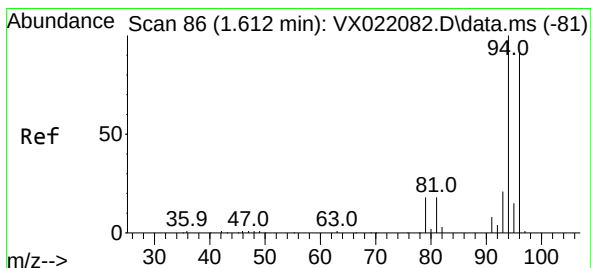
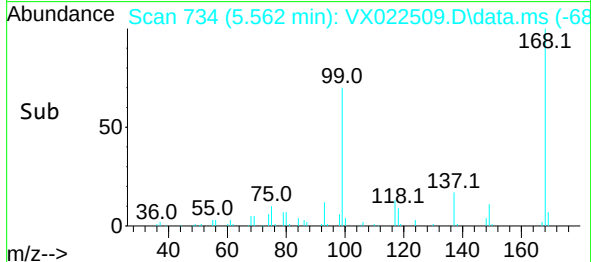
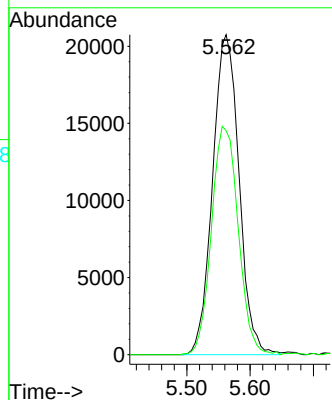


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. 0.000 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB136857ZHE#03

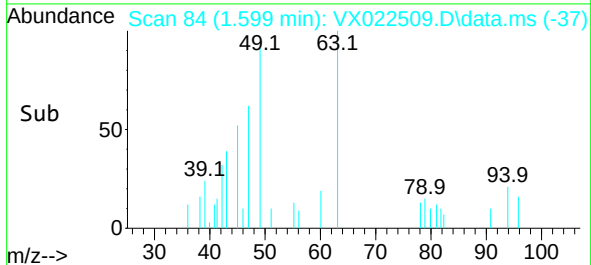
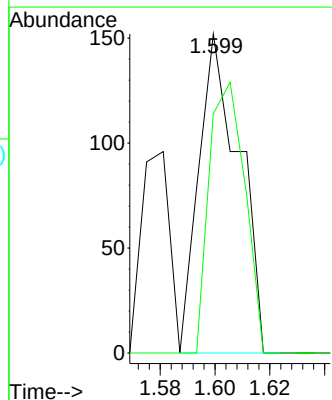
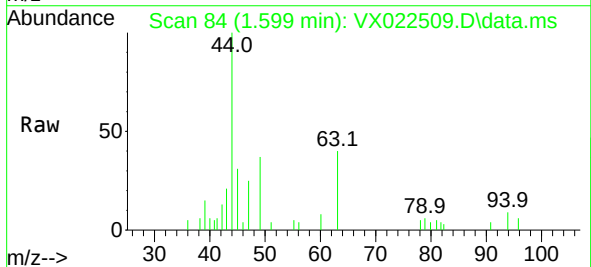


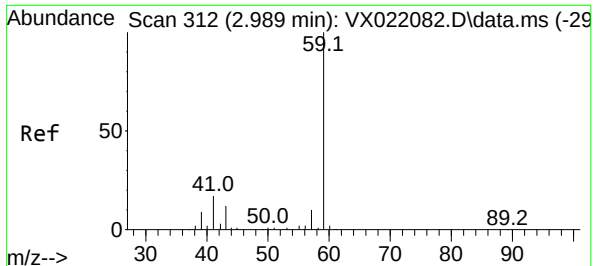
Tgt Ion:168 Resp: 60150  
Ion Ratio Lower Upper  
168 100  
99 70.0 45.8 68.6#



#5  
Bromomethane  
Concen: 0.319 ug/l  
RT: 1.599 min Scan# 84  
Delta R.T. -0.013 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

Tgt Ion: 94 Resp: 155  
Ion Ratio Lower Upper  
94 100  
96 75.0 76.4 114.6#



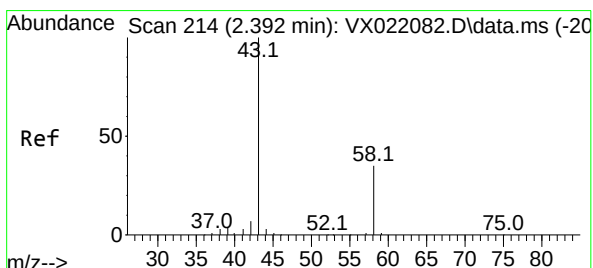
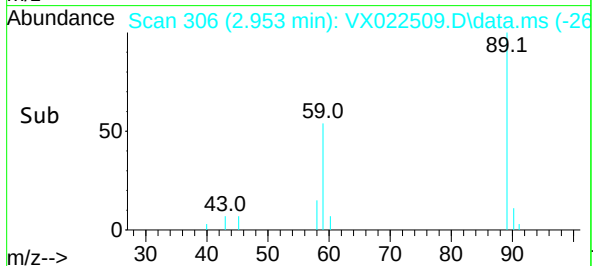
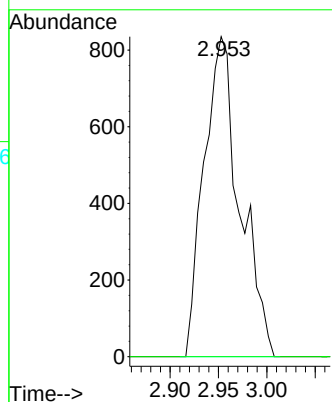
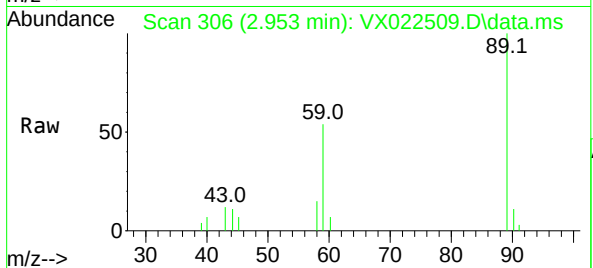


#11

Tert butyl alcohol  
Concen: 10.159 ug/l  
RT: 2.953 min Scan# 306  
Delta R.T. -0.036 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB136857ZHE#03

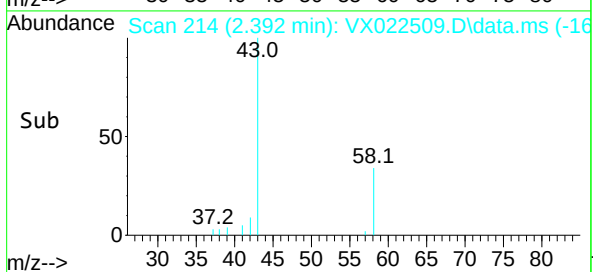
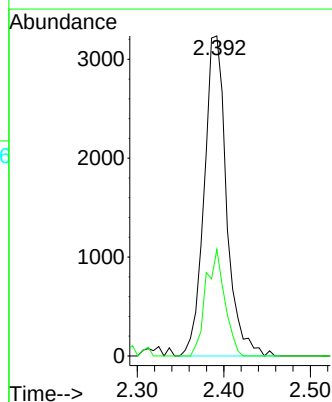
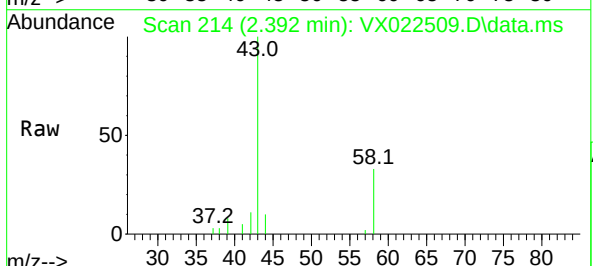
Tgt Ion: 59 Resp: 2156  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

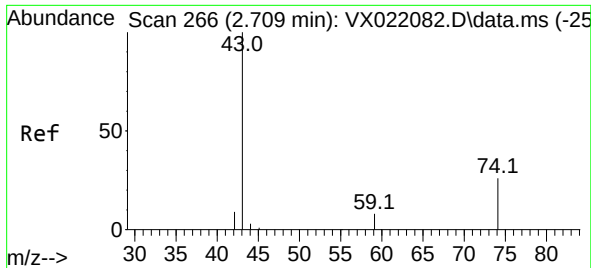


#16

Acetone  
Concen: 14.373 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. -0.000 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

Tgt Ion: 43 Resp: 5807  
Ion Ratio Lower Upper  
43 100  
58 33.3 27.8 41.8

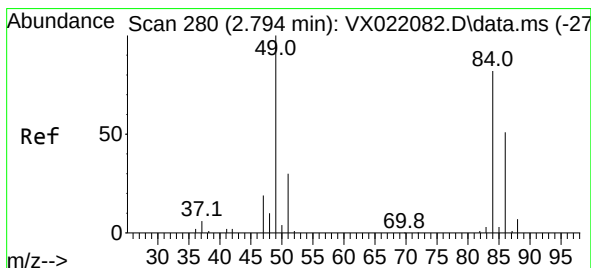
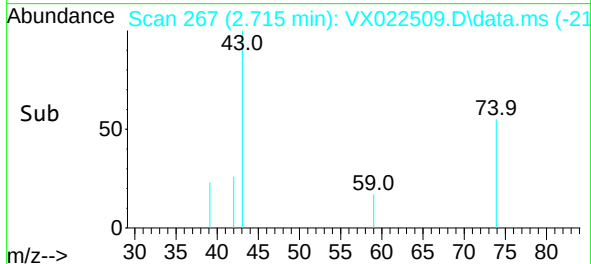
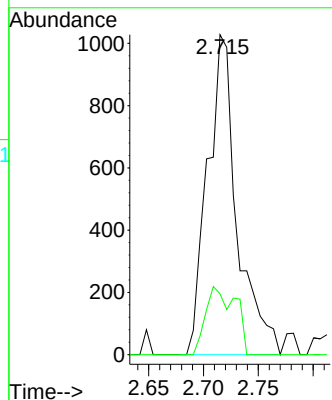
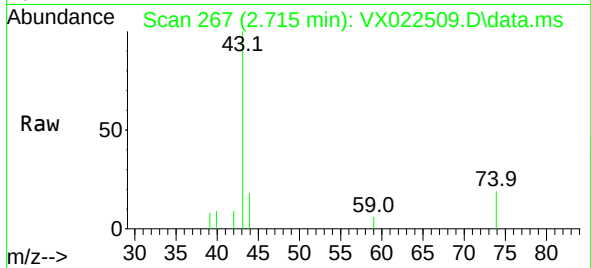




#18  
Methyl Acetate  
Concen: 1.795 ug/l  
RT: 2.715 min Scan# 267  
Delta R.T. 0.006 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

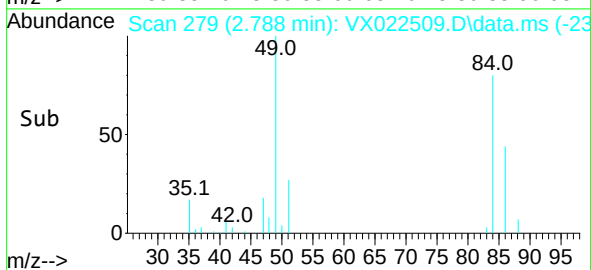
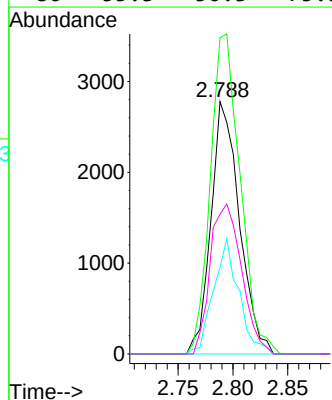
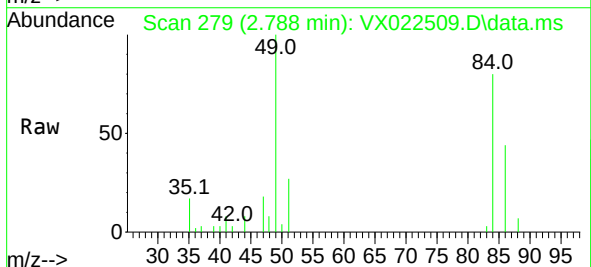
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB136857ZHE#03

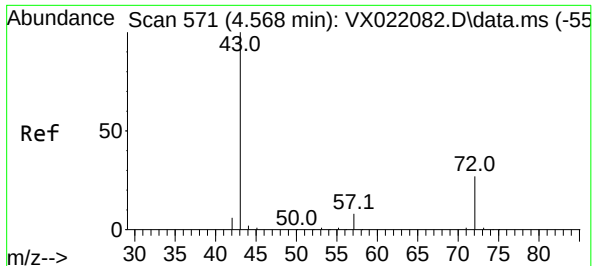
Tgt Ion: 43 Resp: 1929  
Ion Ratio Lower Upper  
43 100  
74 21.3 21.9 32.9#



#20  
Methylene Chloride  
Concen: 5.579 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. -0.006 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

Tgt Ion: 84 Resp: 5005  
Ion Ratio Lower Upper  
84 100  
49 125.4 88.6 132.8  
51 34.4 27.0 40.6  
86 55.3 50.3 75.5





#25

2-Butanone

Concen: 3.418 ug/l

RT: 4.581 min Scan# 573

Delta R.T. 0.013 min

Lab File: VX022509.D

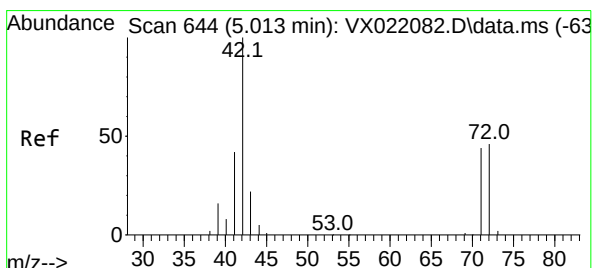
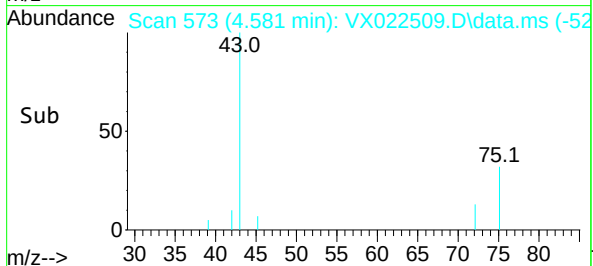
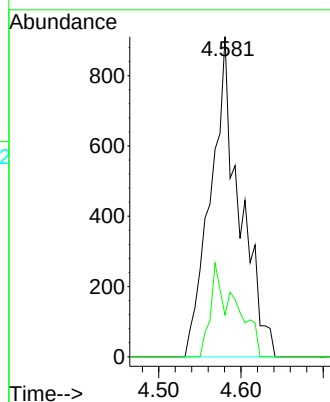
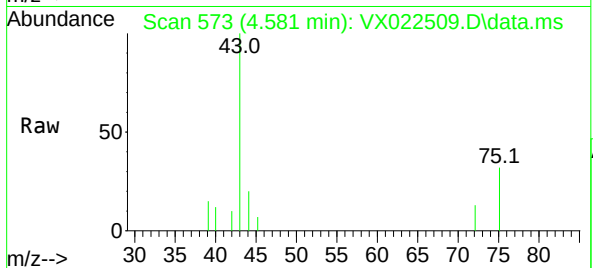
Acq: 07 Jun 2021 04:19

Tgt Ion: 43 Resp: 2234

Ion Ratio Lower Upper

43 100

72 13.1 23.7 35.5#



#29

Tetrahydrofuran

Concen: 0.604 ug/l

RT: 5.007 min Scan# 643

Delta R.T. -0.006 min

Lab File: VX022509.D

Acq: 07 Jun 2021 04:19

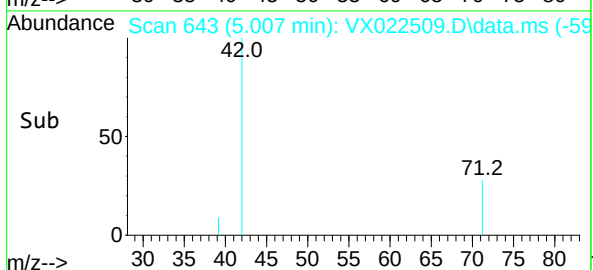
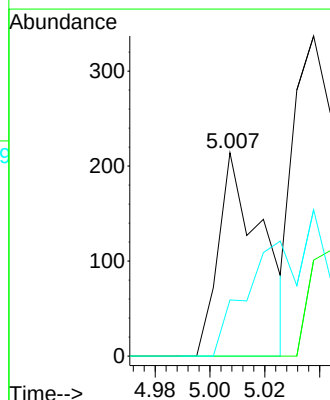
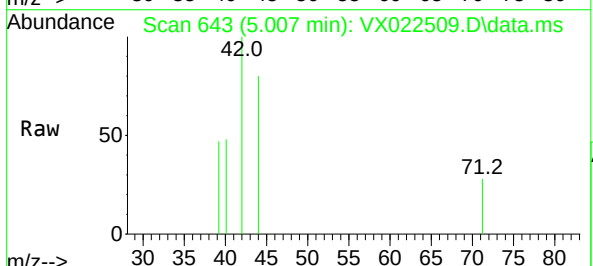
Tgt Ion: 42 Resp: 235

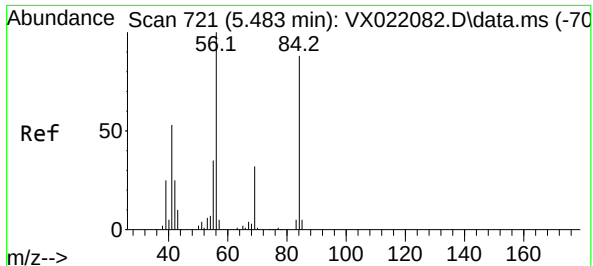
Ion Ratio Lower Upper

42 100

72 0.0 41.7 62.5#

71 0.0 38.4 57.6#

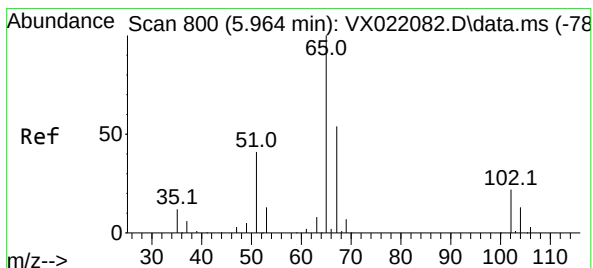
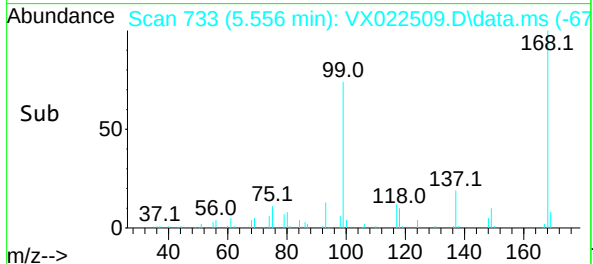
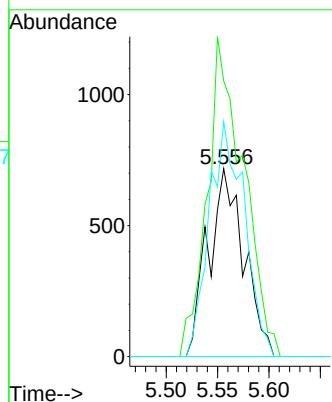
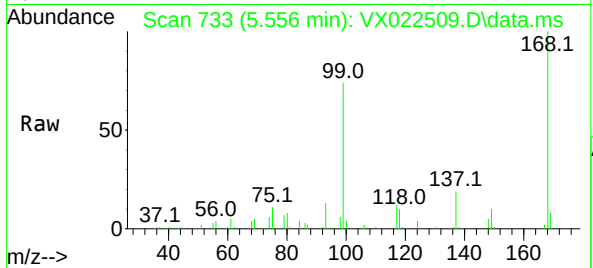




#31  
Cyclohexane  
Concen: 1.484 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. 0.073 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

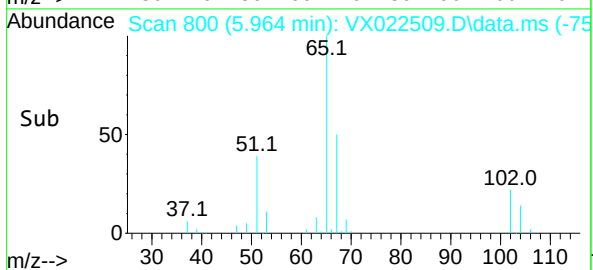
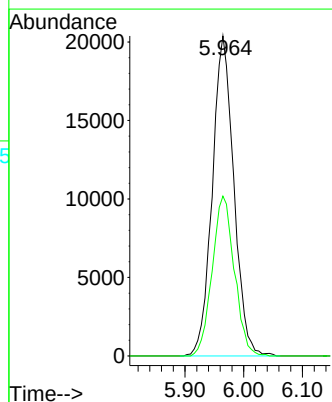
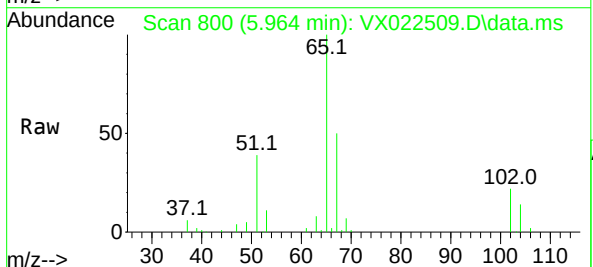
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB136857ZHE#03

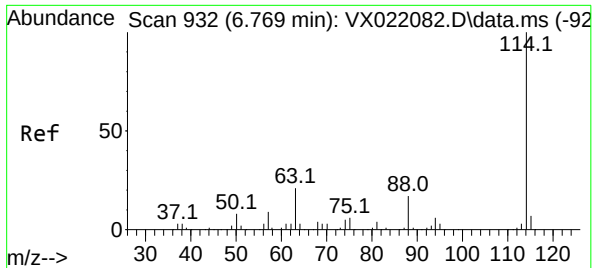
Tgt Ion: 56 Resp: 1730  
Ion Ratio Lower Upper  
56 100  
69 146.6 25.3 37.9#  
84 125.1 71.4 107.0#



#33  
1,2-Dichloroethane-d4  
Concen: 55.948 ug/l  
RT: 5.964 min Scan# 800  
Delta R.T. 0.000 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

Tgt Ion: 65 Resp: 51912  
Ion Ratio Lower Upper  
65 100  
67 51.3 0.0 105.4

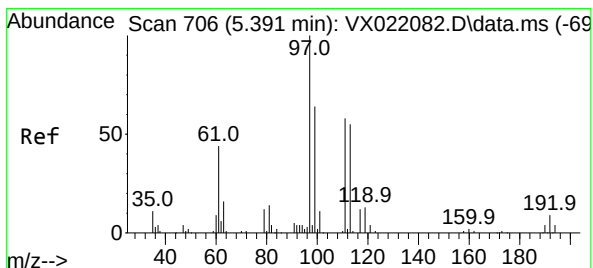
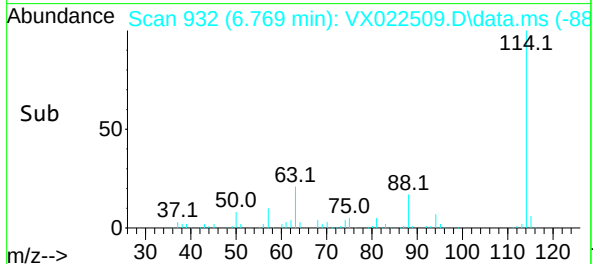
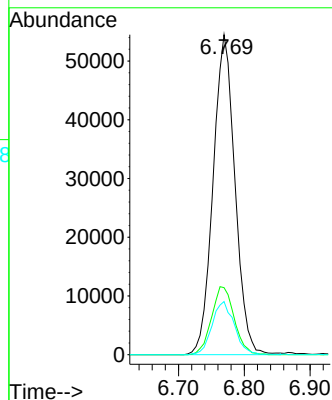
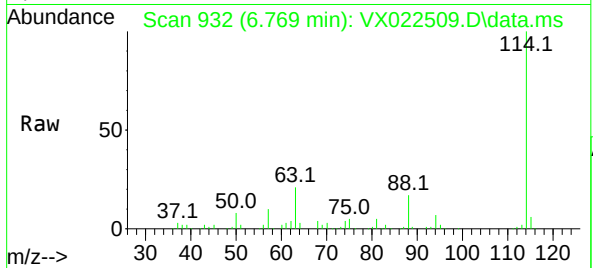




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.769 min Scan# 932  
Delta R.T. 0.000 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

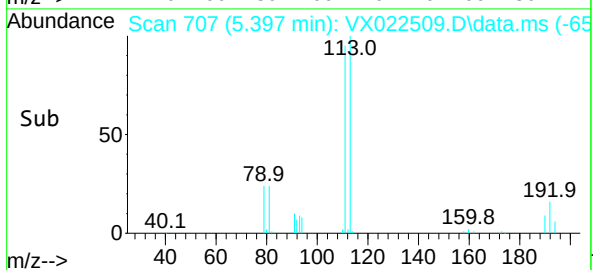
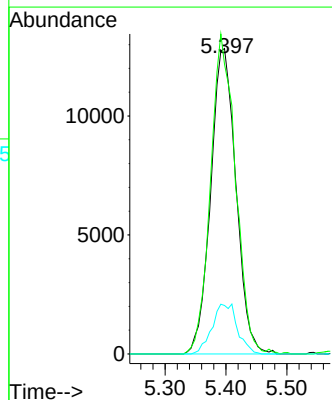
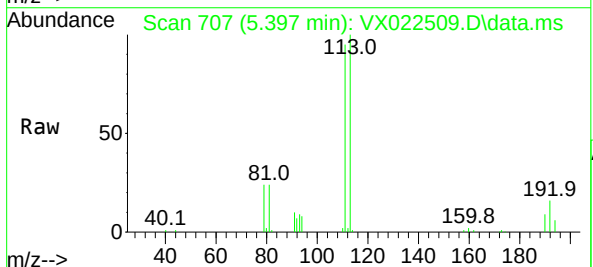
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB136857ZHE#03

Tgt Ion:114 Resp: 126235  
Ion Ratio Lower Upper  
114 100  
63 20.9 0.0 40.8  
88 16.6 0.0 32.8

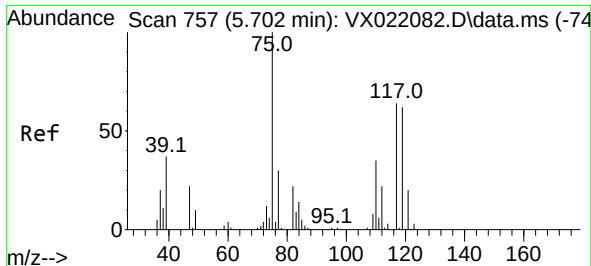


#35  
Dibromofluoromethane  
Concen: 46.309 ug/l  
RT: 5.397 min Scan# 707  
Delta R.T. 0.006 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

Tgt Ion:113 Resp: 37071  
Ion Ratio Lower Upper  
113 100  
111 102.9 81.9 122.9  
192 16.3 16.7 25.1#



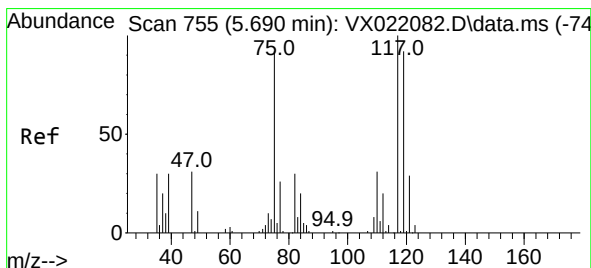
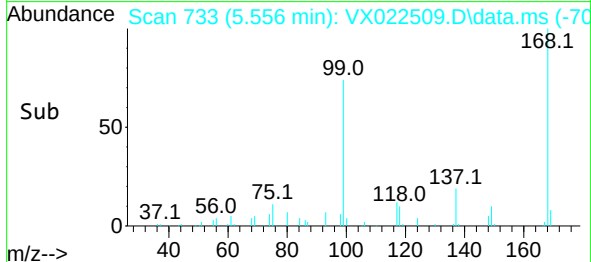
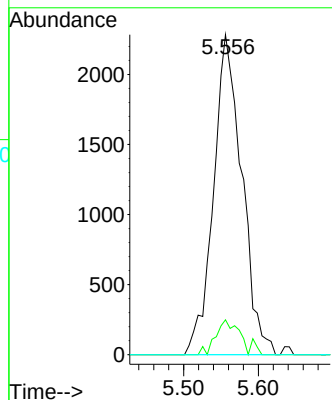
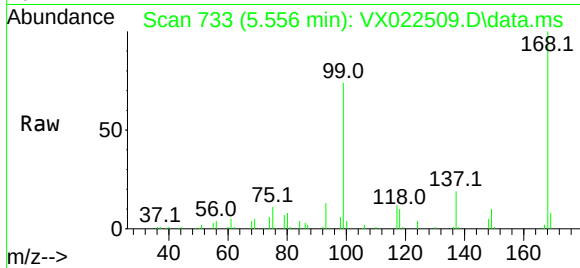




#36  
1,1-Dichloropropene  
Concen: 5.166 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.146 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

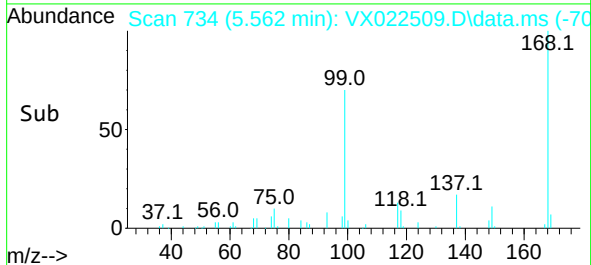
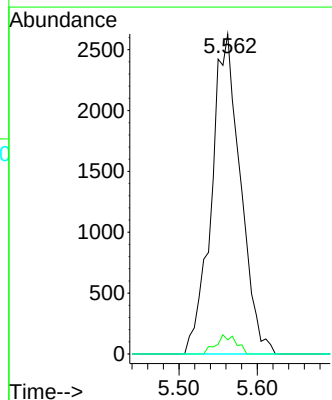
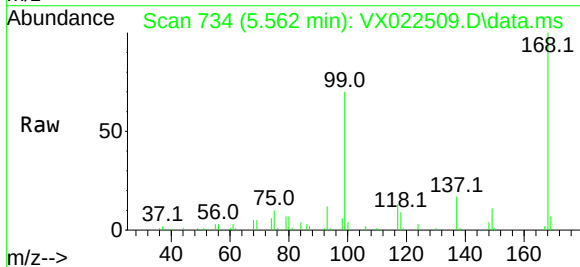
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB136857ZHE#03

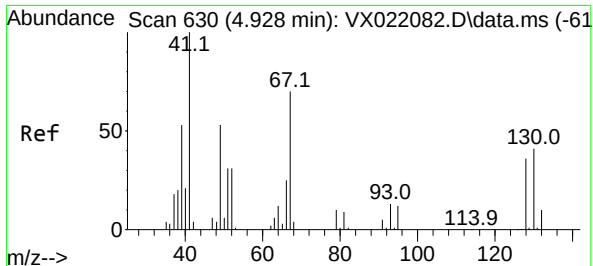
Tgt Ion: 75 Resp: 6030  
Ion Ratio Lower Upper  
75 100  
110 8.7 18.1 54.4#  
77 0.0 25.3 37.9#



#38  
Carbon Tetrachloride  
Concen: 5.918 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.128 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

Tgt Ion: 117 Resp: 6757  
Ion Ratio Lower Upper  
117 100  
119 4.4 76.2 114.2#  
121 0.0 24.8 37.2#

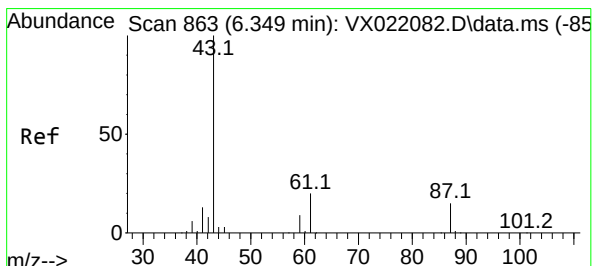
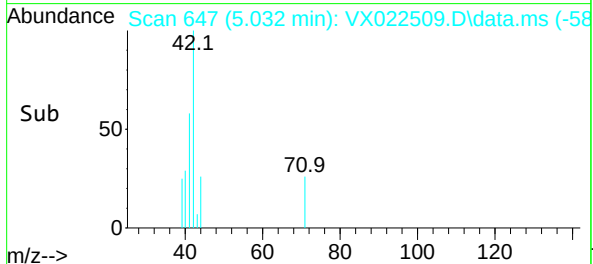
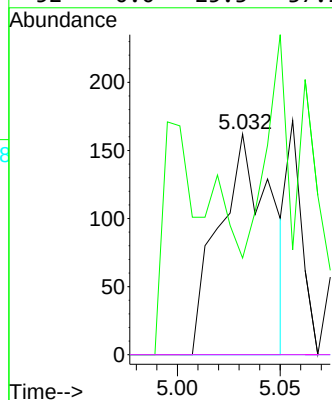
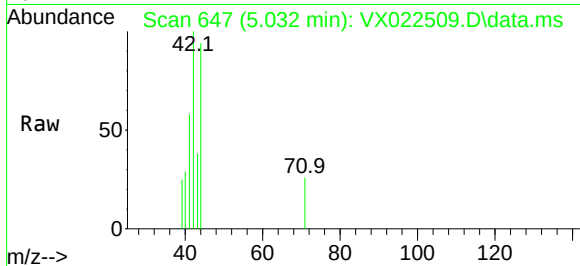




#41  
Methacrylonitrile  
Concen: 0.368 ug/l  
RT: 5.032 min Scan# 647  
Delta R.T. 0.104 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

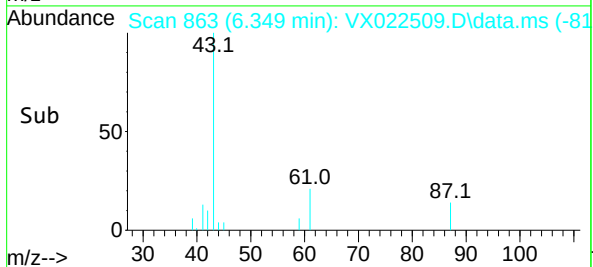
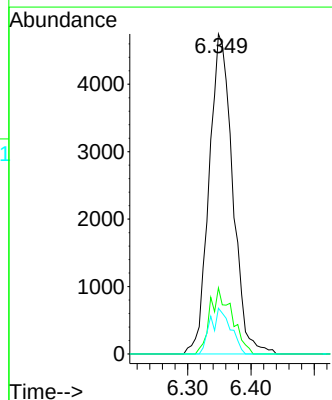
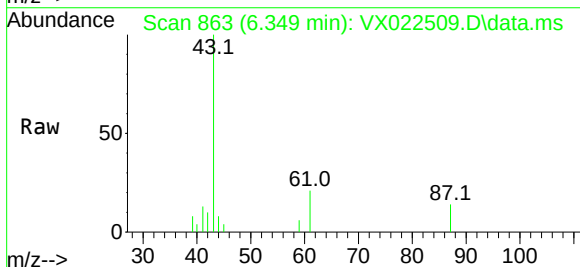
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB136857ZHE#03

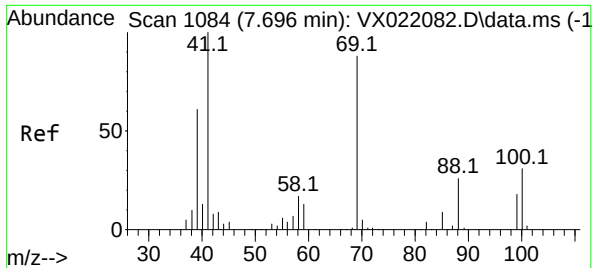
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 282   |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 69.9  | 42.5  | 63.7# |
| 67       | 0.0   | 65.0  | 97.6# |
| 52       | 0.0   | 25.3  | 37.9# |



#43  
Isopropyl Acetate  
Concen: 5.237 ug/l  
RT: 6.349 min Scan# 863  
Delta R.T. -0.000 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 12257 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 19.3  | 18.2  | 27.4  |
| 87       | 12.2  | 12.5  | 18.7# |

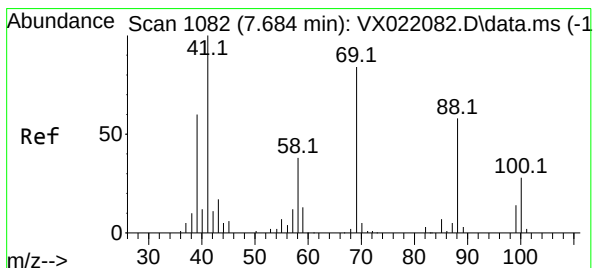
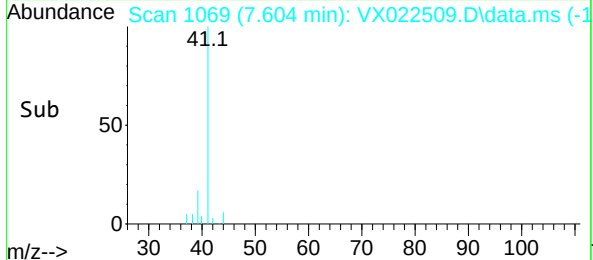
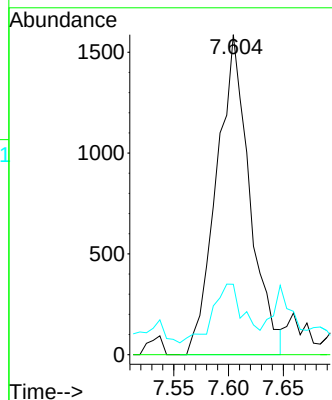
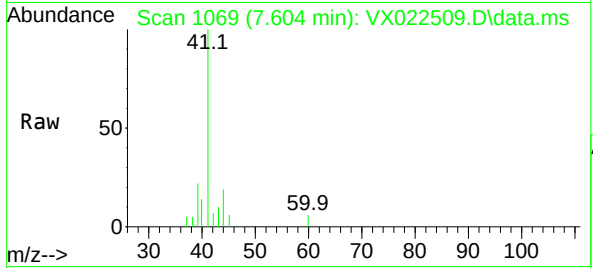




#48  
Methyl methacrylate  
Concen: 3.093 ug/l  
RT: 7.604 min Scan# 1069  
Delta R.T. -0.092 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

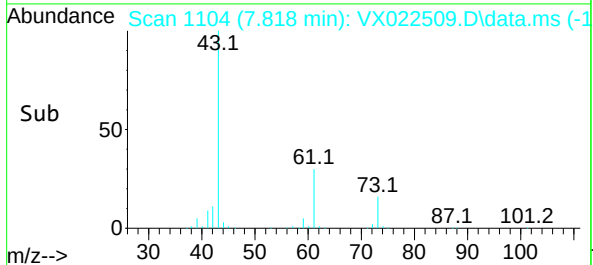
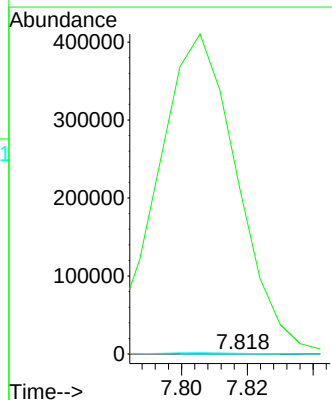
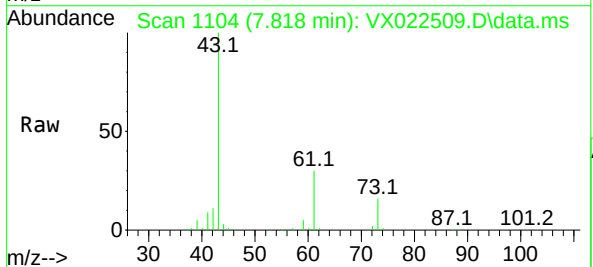
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB136857ZHE#03

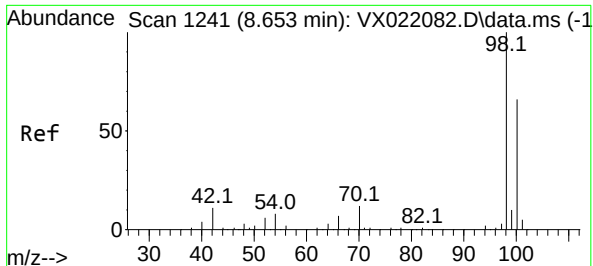
Tgt Ion: 41 Resp: 3336  
Ion Ratio Lower Upper  
41 100  
69 0.0 76.0 114.0#  
39 0.0 44.6 67.0#



#49  
1,4-Dioxane  
Concen: 2.286 ug/l  
RT: 7.818 min Scan# 1104  
Delta R.T. 0.134 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

Tgt Ion: 88 Resp: 48  
Ion Ratio Lower Upper  
88 100  
43 1465722.9 23.2 34.8#  
58 5983.3 55.0 82.4#

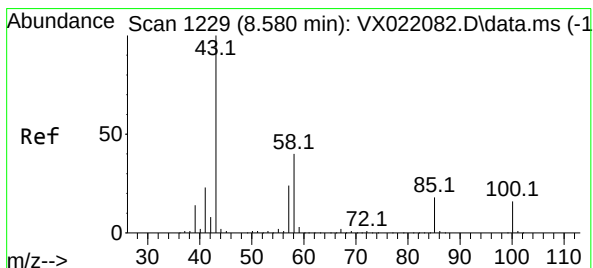
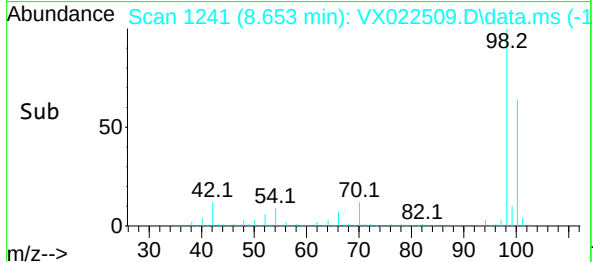
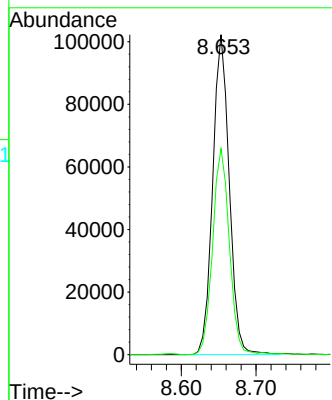
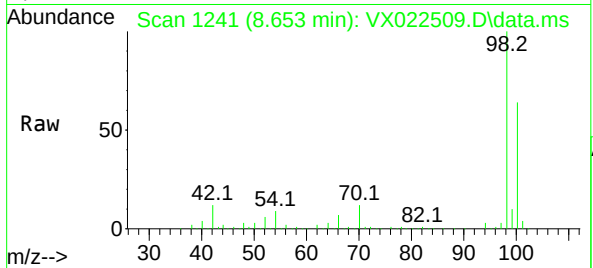




#50  
Toluene-d8  
Concen: 51.022 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.000 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

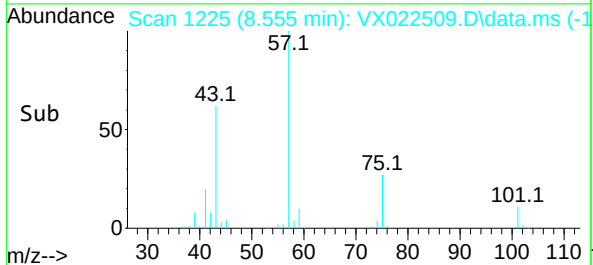
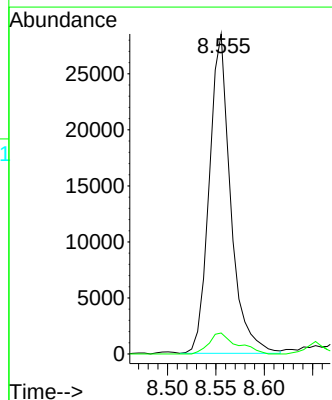
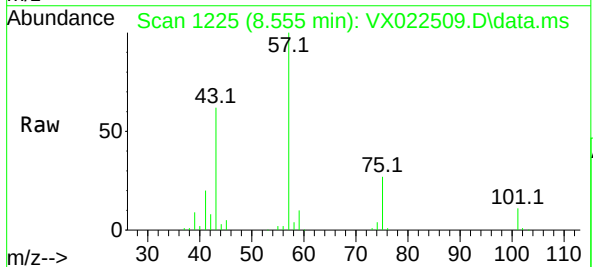
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB136857ZHE#03

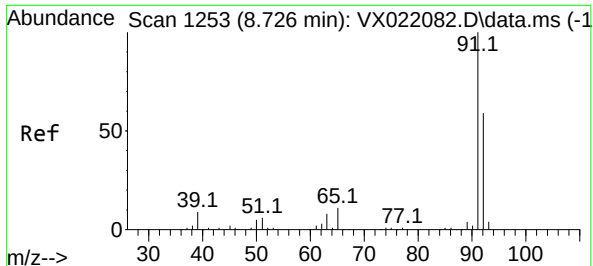
Tgt Ion: 98 Resp: 157338  
Ion Ratio Lower Upper  
98 100  
100 65.6 51.9 77.9



#51  
4-Methyl-2-Pentanone  
Concen: 31.266 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. -0.025 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

Tgt Ion: 43 Resp: 43834  
Ion Ratio Lower Upper  
43 100  
58 8.6 35.4 53.0#

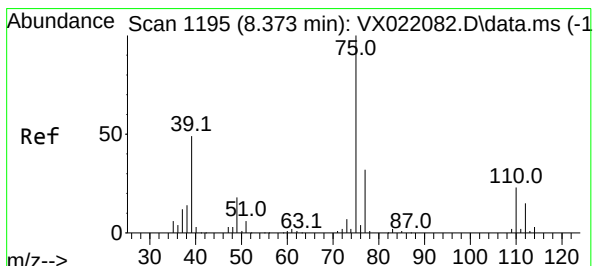
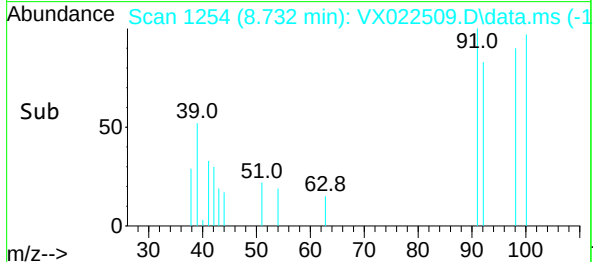
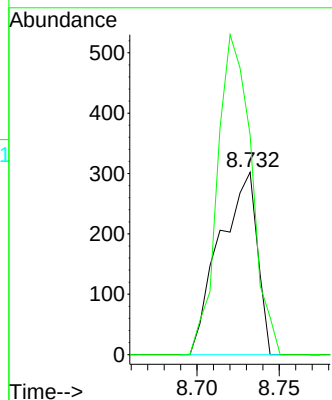
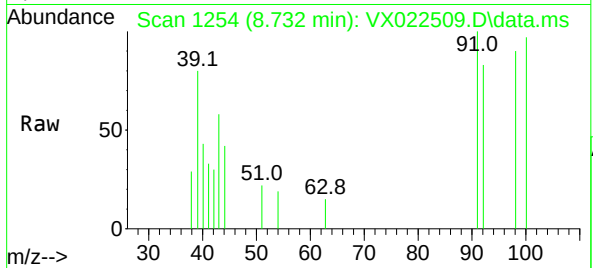




#52  
Toluene  
Concen: 0.211 ug/l  
RT: 8.732 min Scan# 1254  
Delta R.T. 0.006 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

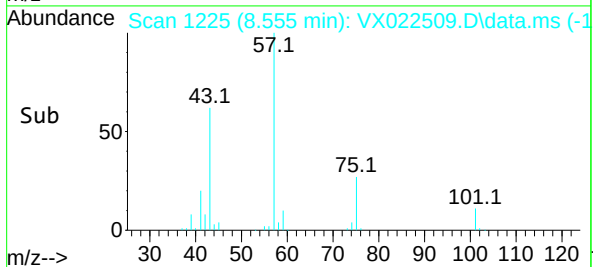
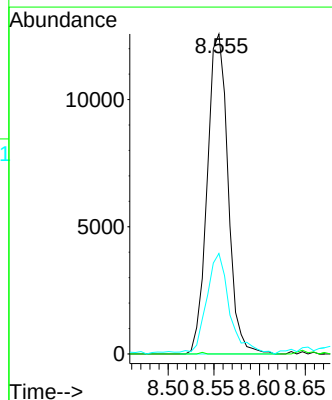
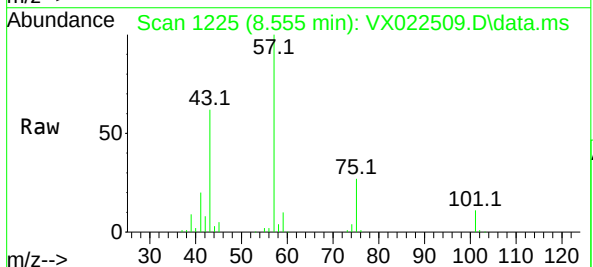
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB136857ZHE#03

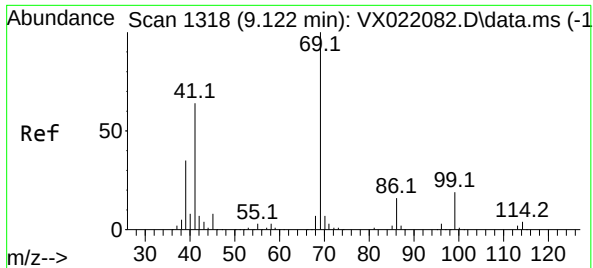
Tgt Ion: 92 Resp: 479  
Ion Ratio Lower Upper  
92 100  
91 159.1 137.1 205.7



#54  
cis-1,3-Dichloropropene  
Concen: 12.900 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. 0.182 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

Tgt Ion: 75 Resp: 19912  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.7 38.5#  
39 30.8 35.1 52.7#

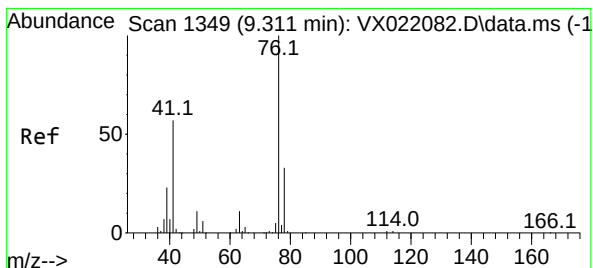
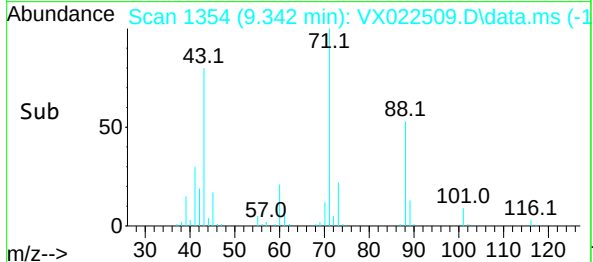
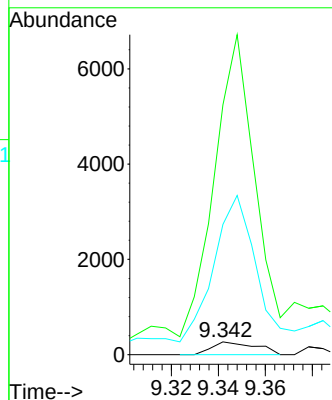
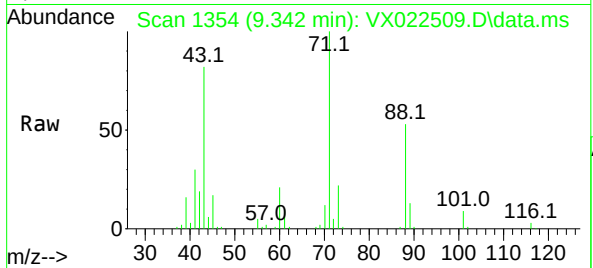




#56  
Ethyl methacrylate  
Concen: 0.235 ug/l  
RT: 9.342 min Scan# 1354  
Delta R.T. 0.220 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

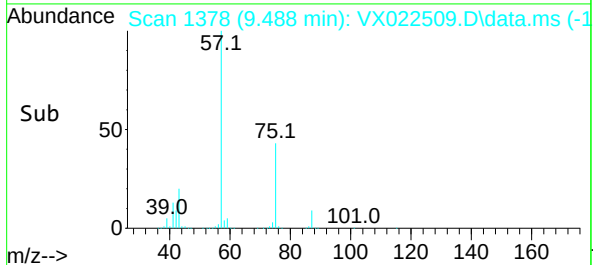
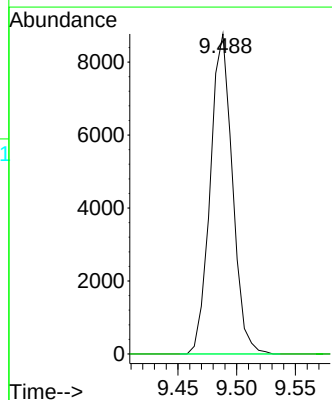
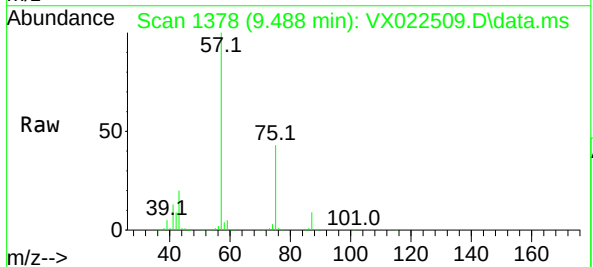
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB136857ZHE#03

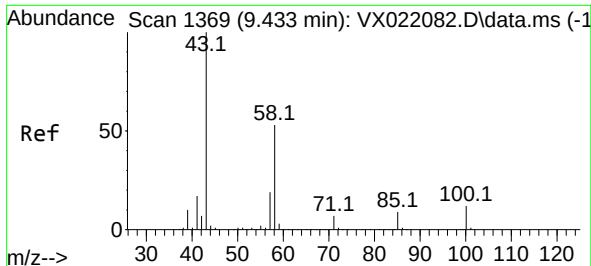
Tgt Ion: 69 Resp: 350  
Ion Ratio Lower Upper  
69 100  
41 2933.7 46.8 70.2#  
39 1367.1 24.7 37.1#



#57  
1,3-Dichloropropane  
Concen: 7.306 ug/l  
RT: 9.488 min Scan# 1378  
Delta R.T. 0.177 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

Tgt Ion: 76 Resp: 11517  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.2 39.2#

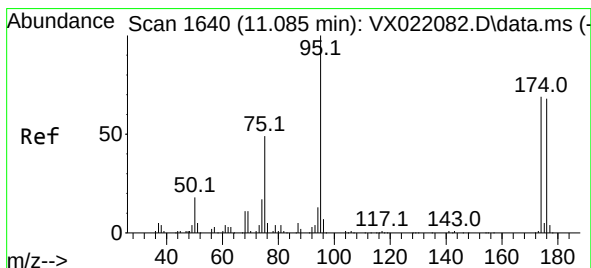
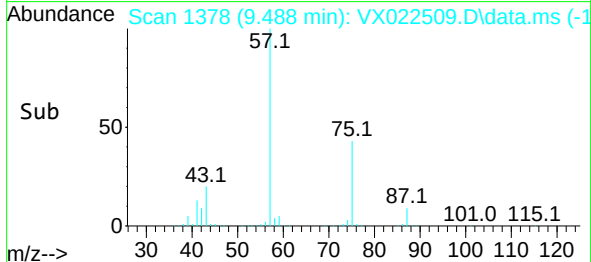
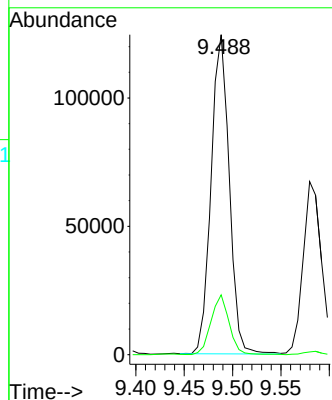
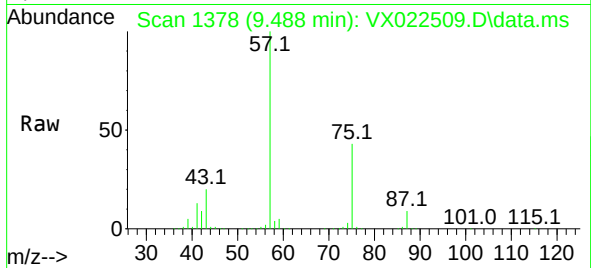




#59  
2-Hexanone  
Concen: 154.109 ug/l  
RT: 9.488 min Scan# 1378  
Delta R.T. 0.055 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

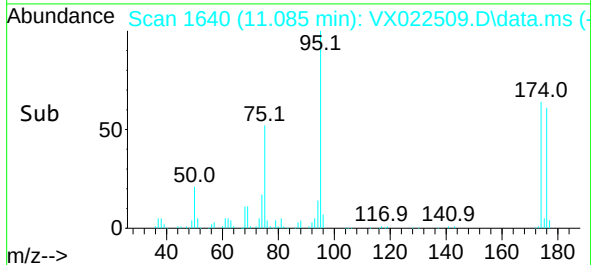
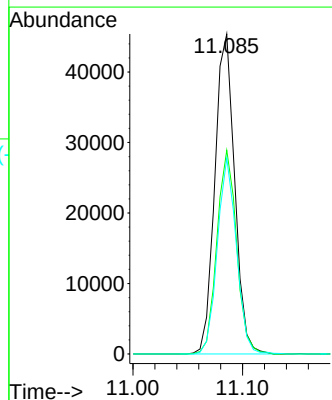
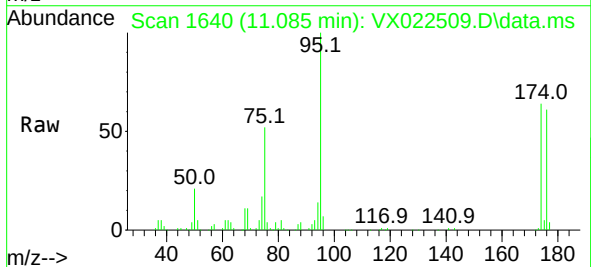
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB136857ZHE#03

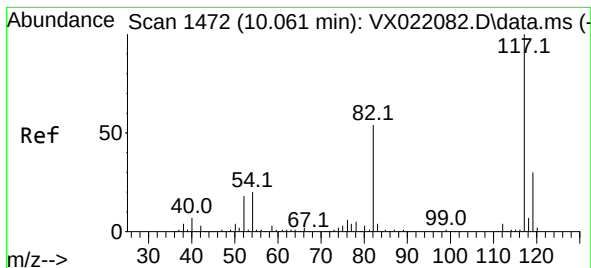
Tgt Ion: 43 Resp: 162500  
Ion Ratio Lower Upper  
43 100  
58 18.8 30.9 92.8#



#62  
4-Bromofluorobenzene  
Concen: 50.049 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

Tgt Ion: 95 Resp: 57046  
Ion Ratio Lower Upper  
95 100  
174 63.0 0.0 154.6  
176 59.0 0.0 155.8

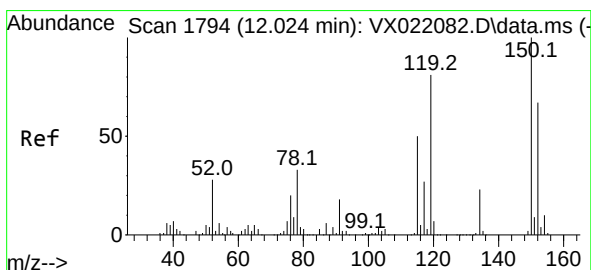
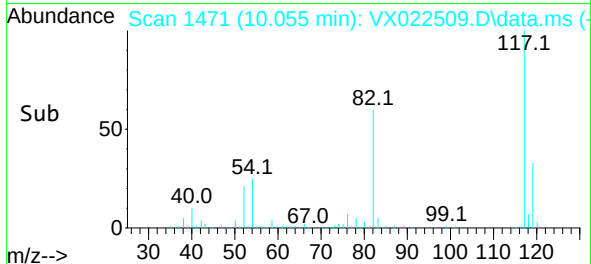
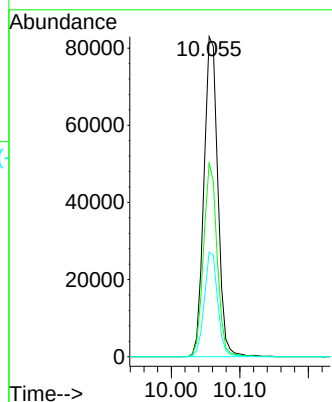
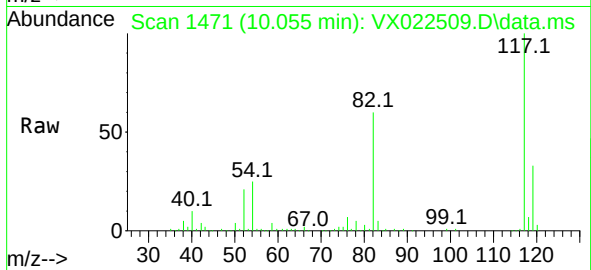




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.006 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

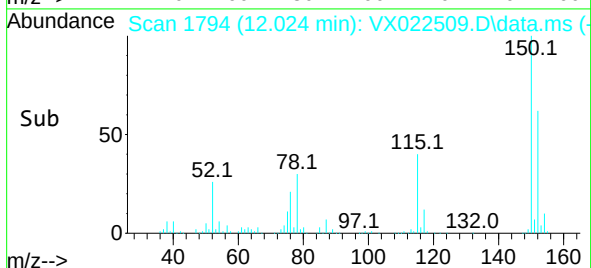
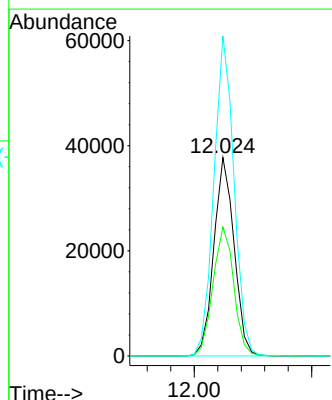
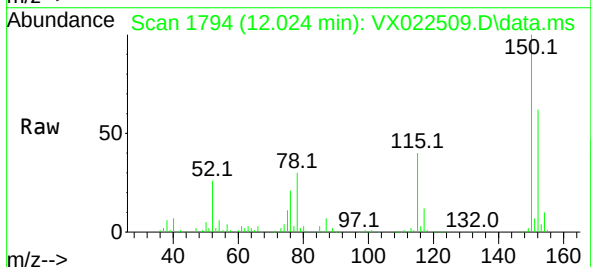
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB136857ZHE#03

Tgt Ion:117 Resp: 117412  
Ion Ratio Lower Upper  
117 100  
82 60.4 47.4 71.2  
119 32.6 26.6 39.8

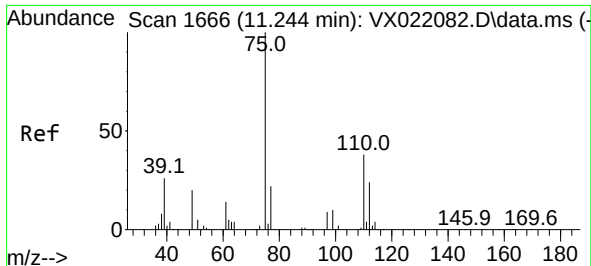


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

Tgt Ion:152 Resp: 45205  
Ion Ratio Lower Upper  
152 100  
115 66.9 41.1 123.3  
150 160.0 0.0 349.0



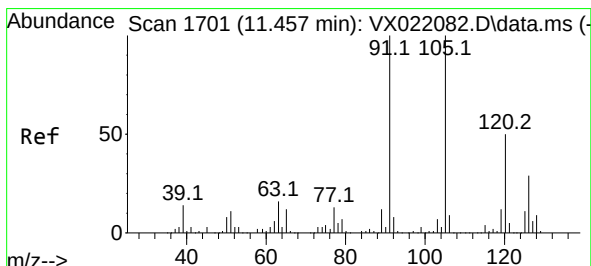
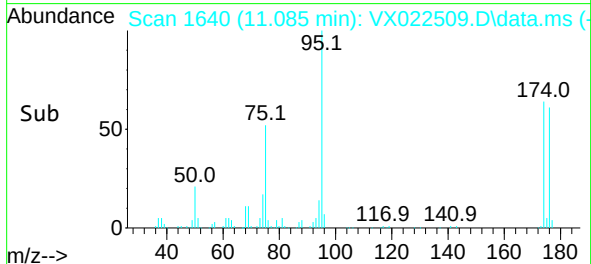
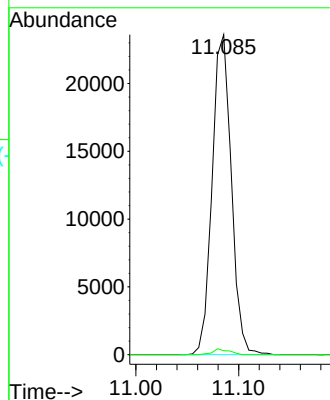
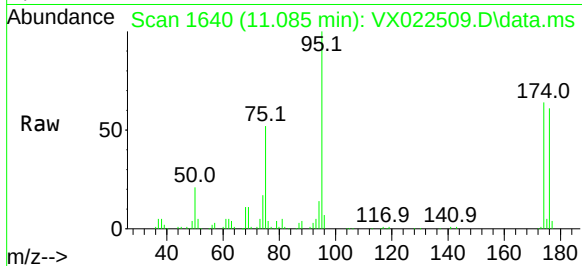




#76  
1,2,3-Trichloropropane  
Concen: 27.367 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

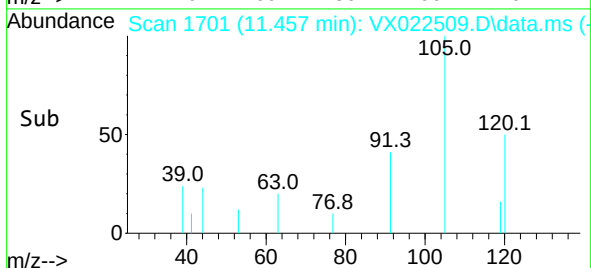
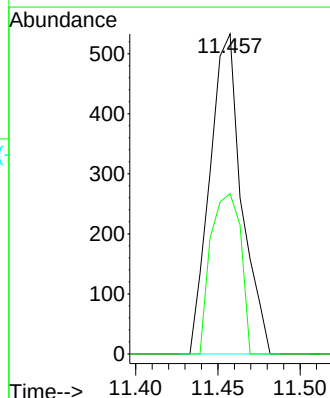
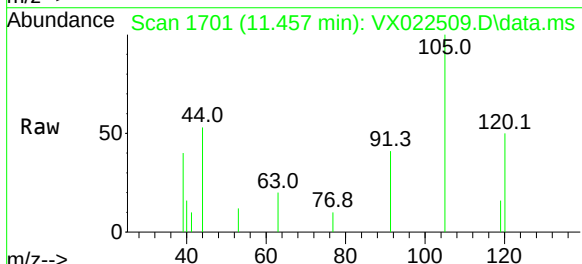
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB136857ZHE#03

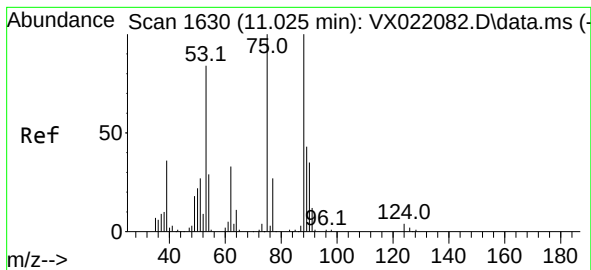
Tgt Ion: 75 Resp: 30520  
Ion Ratio Lower Upper  
75 100  
77 1.5 19.1 57.5#



#80  
1,3,5-Trimethylbenzene  
Concen: 0.226 ug/l  
RT: 11.457 min Scan# 1701  
Delta R.T. 0.000 min  
Lab File: VX022509.D  
Acq: 07 Jun 2021 04:19

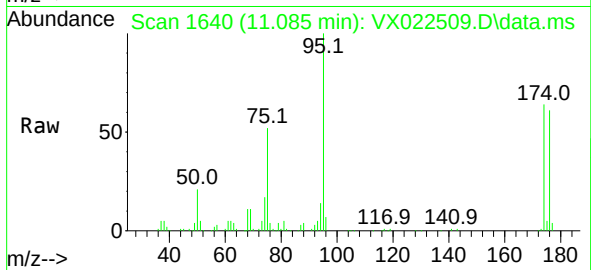
Tgt Ion: 105 Resp: 718  
Ion Ratio Lower Upper  
105 100  
120 47.2 23.8 71.5





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 64.842 ug/l  
 RT: 11.085 min Scan# 1640  
 Delta R.T. 0.060 min  
 Lab File: VX022509.D  
 Acq: 07 Jun 2021 04:19

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB136857ZHE#03



Tgt Ion: 75 Resp: 30520  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 74.5 111.7#  
 89 0.0 37.9 56.9#

