

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122120\  
 Data File : VX020273.D  
 Acq On : 22 Dec 2020 00:59  
 Operator : JC/MD  
 Sample : PB133709ZHE#04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB133709ZHE#04

Quant Time: Dec 22 05:16:14 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121820W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 18 13:09:49 2020  
 Response via : Initial Calibration

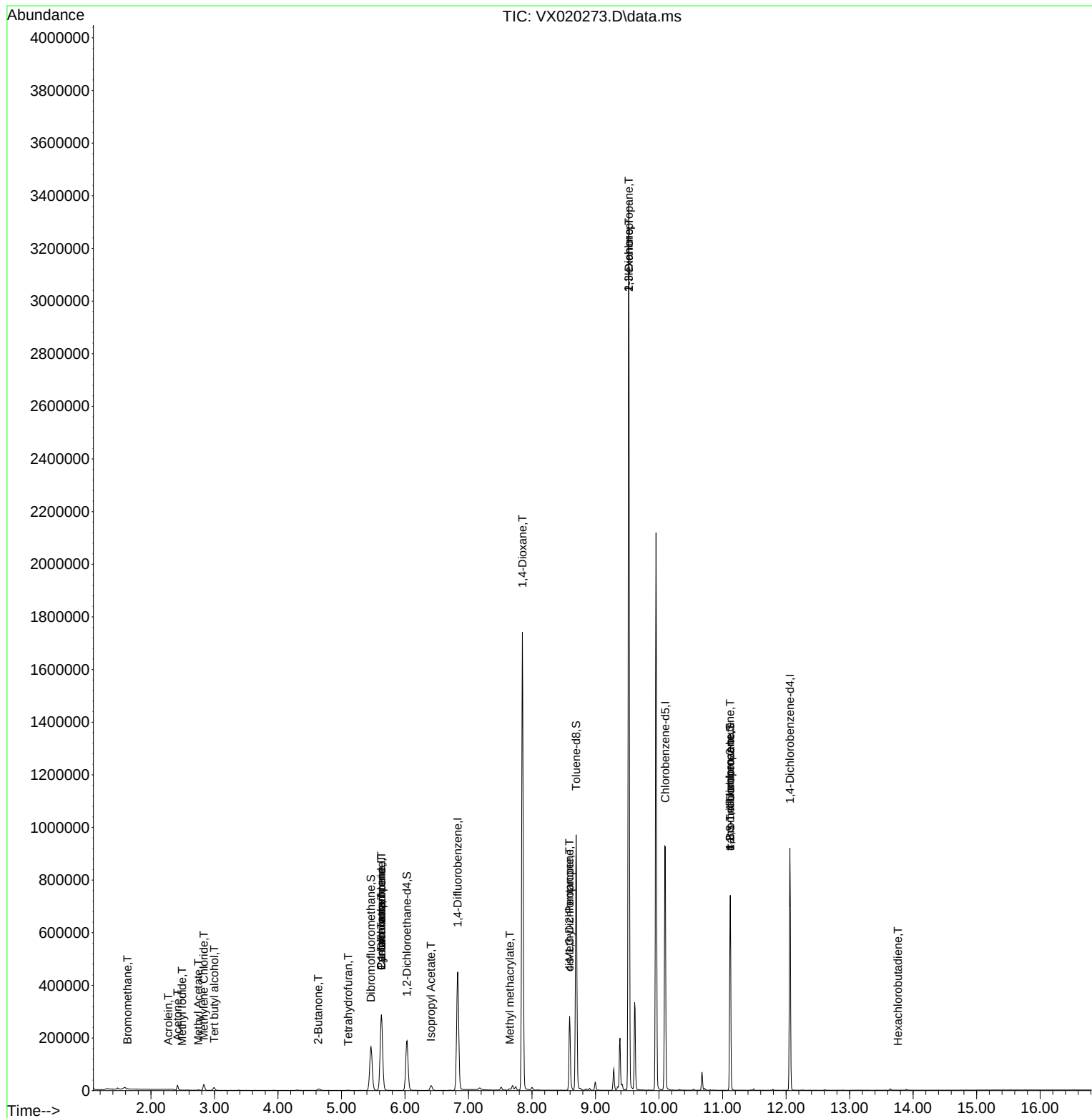
| Compound                      | R.T.   | QIon  | Response | Conc     | Units     | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-----------|----------|
| Internal Standards            |        |       |          |          |           |          |
| 1) Pentafluorobenzene         | 5.629  | 168   | 270008   | 50.00    | ug/l      | 0.01     |
| 34) 1,4-Difluorobenzene       | 6.830  | 114   | 453540   | 50.00    | ug/l      | 0.00     |
| 63) Chlorobenzene-d5          | 10.097 | 117   | 440162   | 50.00    | ug/l      | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.061 | 152   | 183524   | 50.00    | ug/l      | 0.00     |
| System Monitoring Compounds   |        |       |          |          |           |          |
| 33) 1,2-Dichloroethane-d4     | 6.031  | 65    | 181056   | 50.03    | ug/l      | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery | = 100.06% |          |
| 35) Dibromofluoromethane      | 5.464  | 113   | 146103   | 50.36    | ug/l      | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery | = 100.72% |          |
| 50) Toluene-d8                | 8.695  | 98    | 568703   | 50.92    | ug/l      | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery | = 101.84% |          |
| 62) 4-Bromofluorobenzene      | 11.122 | 95    | 199835   | 46.75    | ug/l      | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery | = 93.50%  |          |
| Target Compounds              |        |       |          |          |           | Qvalue   |
| 5) Bromomethane               | 1.629  | 94    | 752      | 0.63     | ug/l      | 96       |
| 10) Methyl Iodide             | 2.489  | 142   | 123      | 3.32     | ug/l #    | 62       |
| 11) Tert butyl alcohol        | 2.995  | 59    | 6834     | 8.43     | ug/l #    | 77       |
| 13) Acrolein                  | 2.270  | 56    | 172      | 0.34     | ug/l #    | 59       |
| 16) Acetone                   | 2.416  | 43    | 17981    | 10.89    | ug/l      | 100      |
| 18) Methyl Acetate            | 2.745  | 43    | 3575     | 0.97     | ug/l #    | 86       |
| 20) Methylene Chloride        | 2.830  | 84    | 10455    | 2.81     | ug/l      | 99       |
| 25) 2-Butanone                | 4.635  | 43    | 7020     | 2.92     | ug/l      | 92       |
| 29) Tetrahydrofuran           | 5.104  | 42    | 1069     | 0.71     | ug/l #    | 74       |
| 31) Cyclohexane               | 5.629  | 56    | 5385     | 1.08     | ug/l #    | 1        |
| 36) 1,1-Dichloropropene       | 5.629  | 75    | 20649    | 4.61     | ug/l #    | 49       |
| 38) Carbon Tetrachloride      | 5.629  | 117   | 26483    | 6.21     | ug/l #    | 17       |
| 43) Isopropyl Acetate         | 6.409  | 43    | 24732    | 3.36     | ug/l      | 96       |
| 48) Methyl methacrylate       | 7.653  | 41    | 7620     | 2.11     | ug/l #    | 10       |
| 49) 1,4-Dioxane               | 7.848  | 88    | 237      | 2.81     | ug/l #    | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.592  | 43    | 89168    | 19.59    | ug/l #    | 47       |
| 54) cis-1,3-Dichloropropene   | 8.592  | 75    | 46011    | 8.28     | ug/l #    | 61       |
| 57) 1,3-Dichloropropane       | 9.524  | 76    | 29521    | 4.94     | ug/l #    | 43       |
| 59) 2-Hexanone                | 9.524  | 43    | 360320   | 103.86   | ug/l #    | 46       |
| 76) 1,2,3-Trichloropropane    | 11.122 | 75    | 97543    | 21.58    | ug/l #    | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.122 | 75    | 97543    | 64.01    | ug/l #    | 12       |
| 94) Hexachlorobutadiene       | 13.761 | 225   | 20       | 2.65     | ug/l #    | 19       |

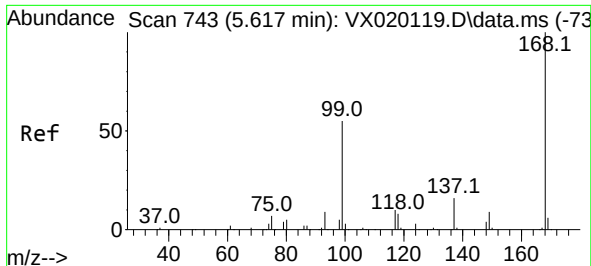
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122120\  
Data File : VX020273.D  
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Sample : PB133709ZHE#04  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
PB133709ZHE#04

Quant Time: Dec 22 05:16:14 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121820W.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 18 13:09:49 2020  
Response via : Initial Calibration

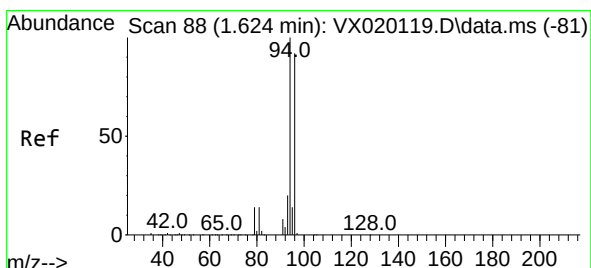
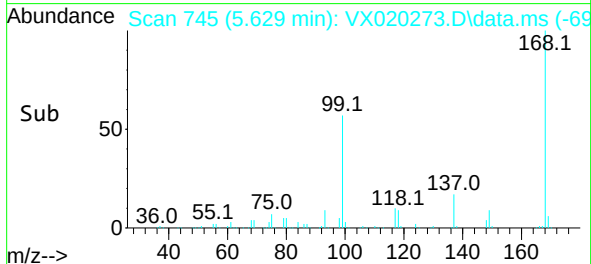
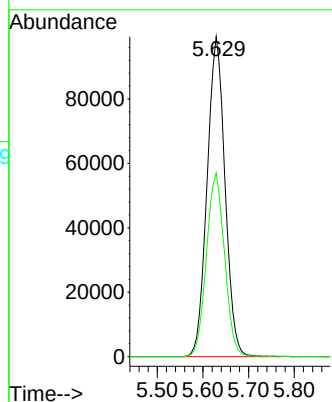
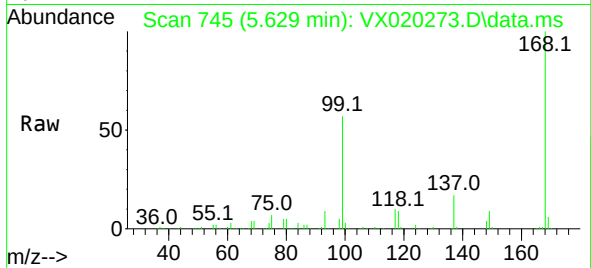




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. 0.012 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

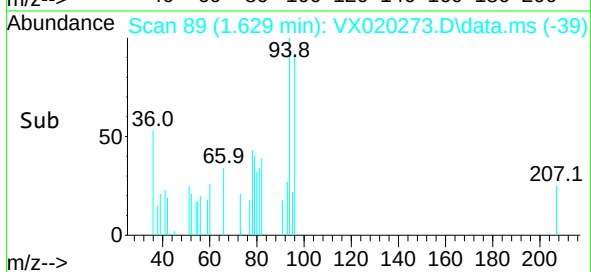
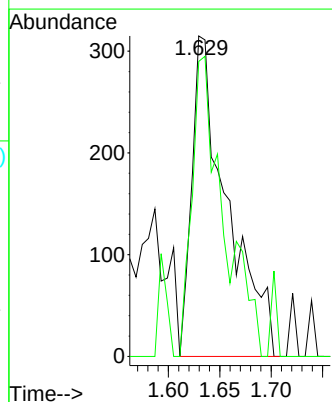
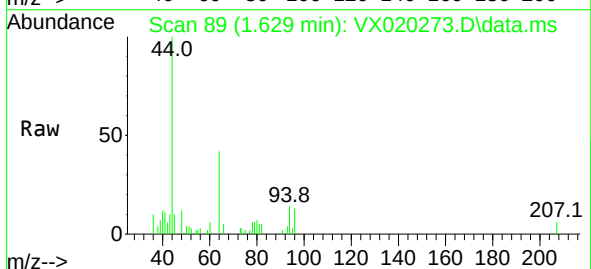
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#04

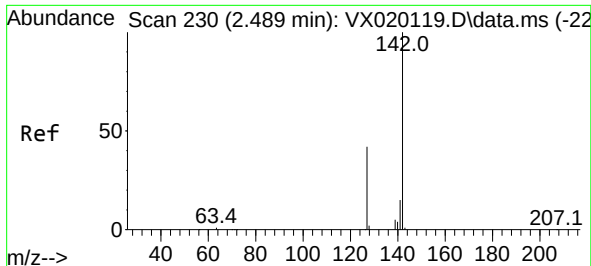
Tgt Ion:168 Resp: 270008  
Ion Ratio Lower Upper  
168 100  
99 57.4 45.8 68.6



#5  
Bromomethane  
Concen: 0.63 ug/l  
RT: 1.629 min Scan# 89  
Delta R.T. 0.005 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

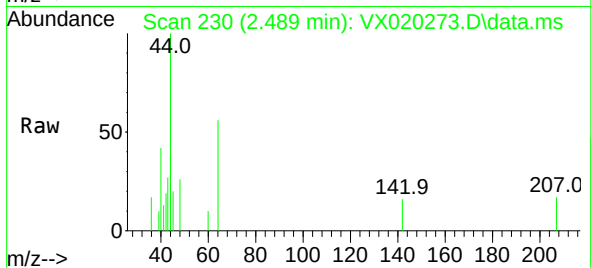
Tgt Ion: 94 Resp: 752  
Ion Ratio Lower Upper  
94 100  
96 92.1 76.4 114.6



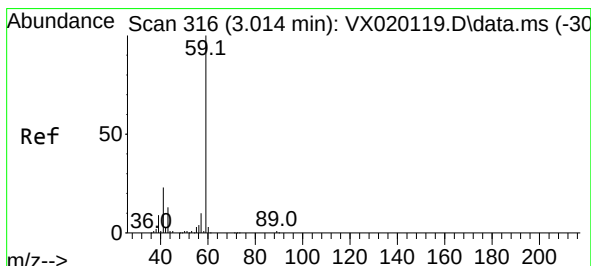
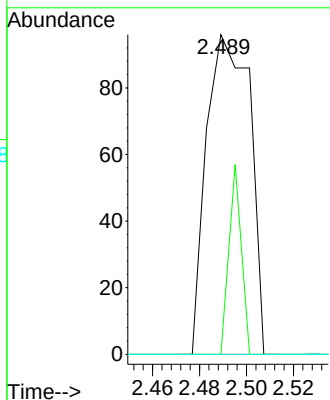
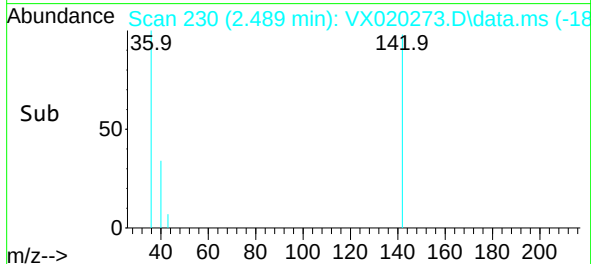


#10  
Methyl Iodide  
Concen: 3.32 ug/l  
RT: 2.489 min Scan# 230  
Delta R.T. 0.000 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

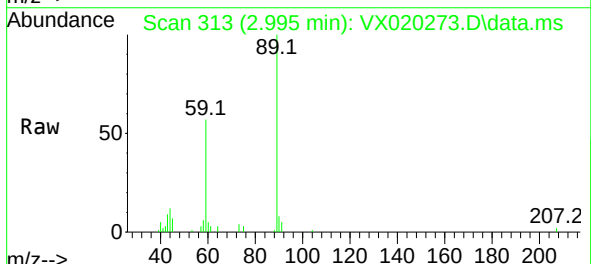
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#04



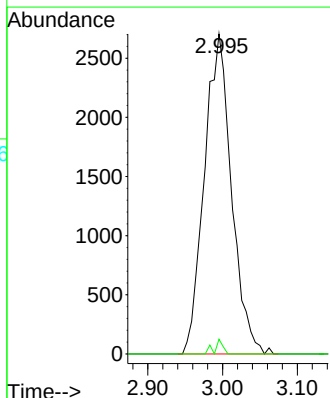
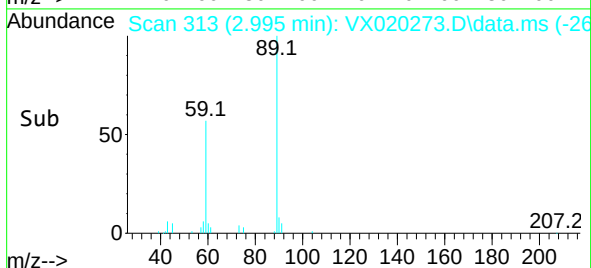
Tgt Ion:142 Resp: 123  
Ion Ratio Lower Upper  
142 100  
127 17.1 33.3 49.9#  
141 0.0 11.4 17.0#

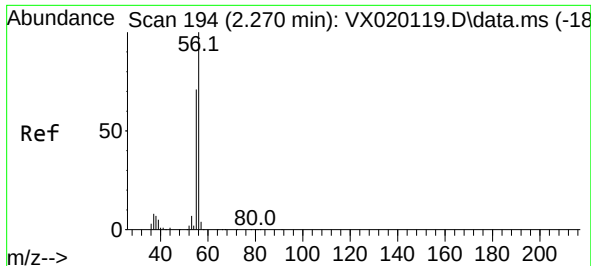


#11  
Tert butyl alcohol  
Concen: 8.43 ug/l  
RT: 2.995 min Scan# 313  
Delta R.T. -0.019 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59



Tgt Ion: 59 Resp: 6834  
Ion Ratio Lower Upper  
59 100  
57 1.4 7.8 11.8#

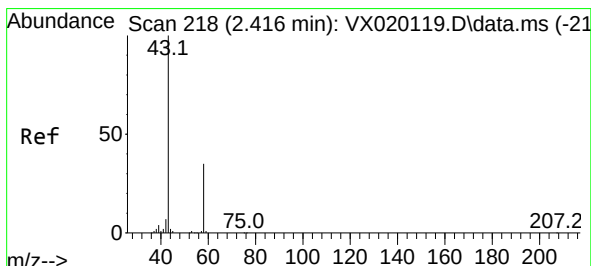
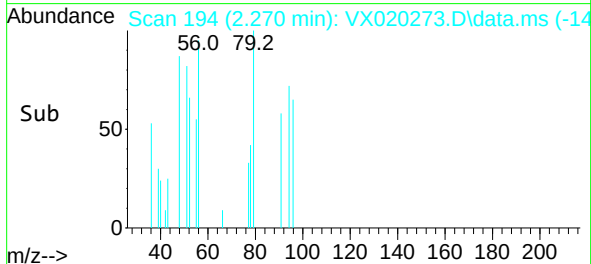
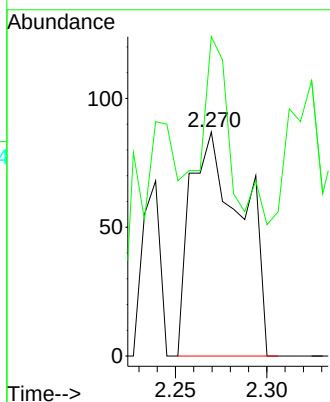
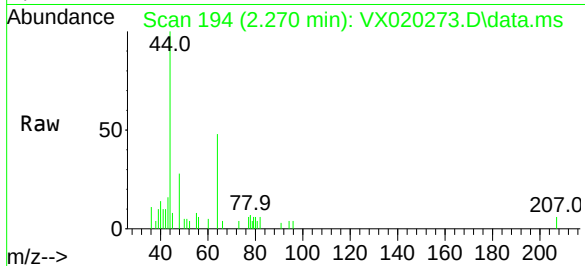




#13  
Acrolein  
Concen: 0.34 ug/l  
RT: 2.270 min Scan# 194  
Delta R.T. -0.000 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

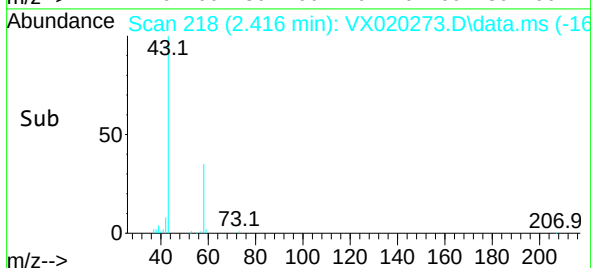
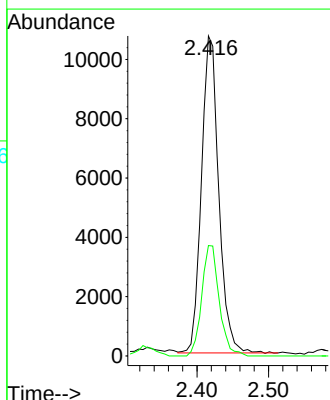
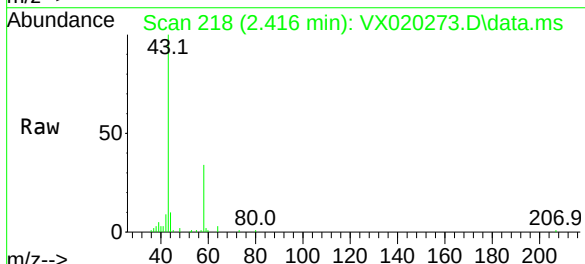
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#04

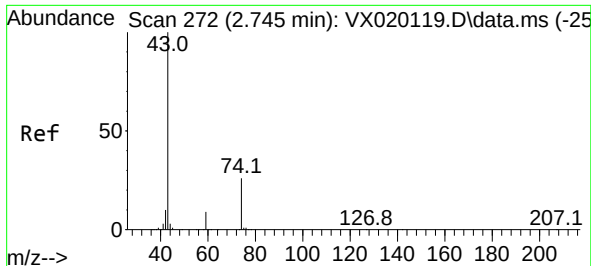
Tgt Ion: 56 Resp: 172  
Ion Ratio Lower Upper  
56 100  
55 36.6 56.4 84.6#



#16  
Acetone  
Concen: 10.89 ug/l  
RT: 2.416 min Scan# 218  
Delta R.T. -0.000 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

Tgt Ion: 43 Resp: 17981  
Ion Ratio Lower Upper  
43 100  
58 34.8 27.8 41.8

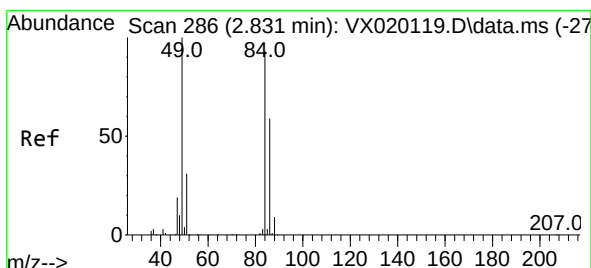
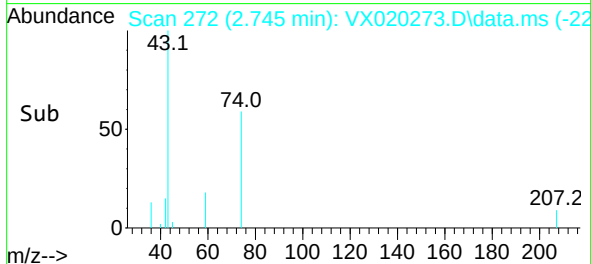
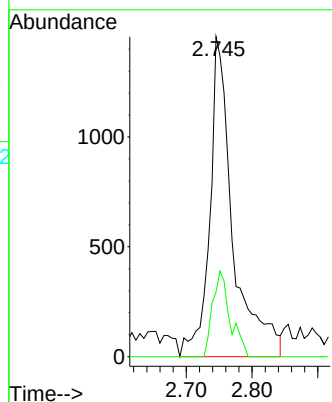
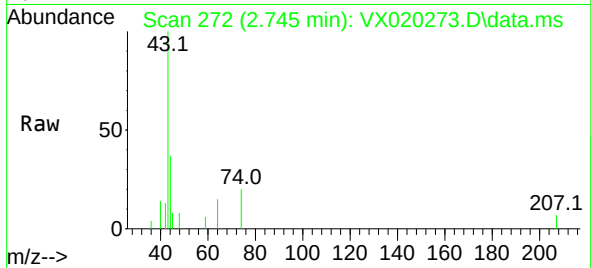




#18  
Methyl Acetate  
Concen: 0.97 ug/l  
RT: 2.745 min Scan# 272  
Delta R.T. 0.000 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

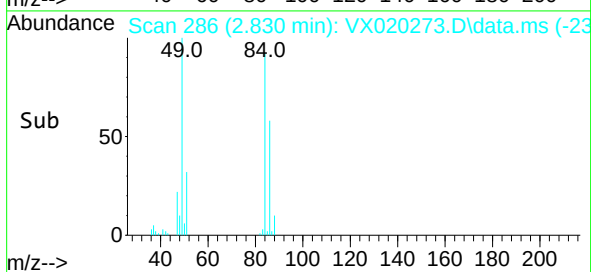
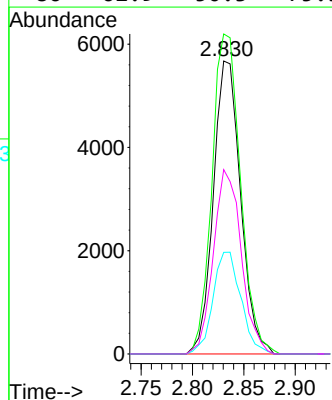
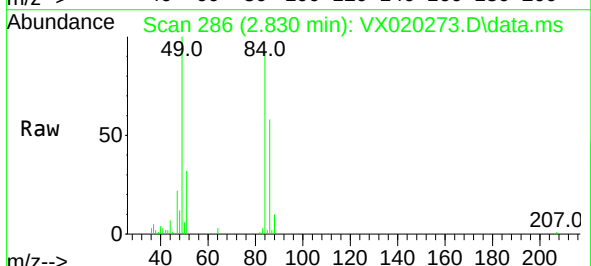
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#04

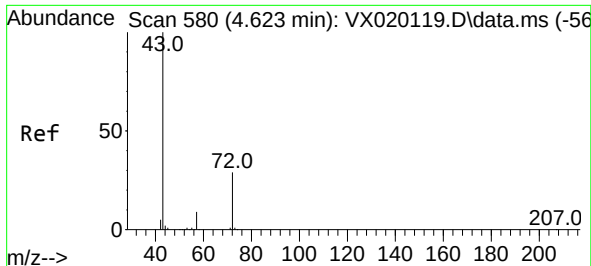
Tgt Ion: 43 Resp: 3575  
Ion Ratio Lower Upper  
43 100  
74 20.1 21.9 32.9#



#20  
Methylene Chloride  
Concen: 2.81 ug/l  
RT: 2.830 min Scan# 286  
Delta R.T. -0.001 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

Tgt Ion: 84 Resp: 10455  
Ion Ratio Lower Upper  
84 100  
49 109.2 88.6 132.8  
51 34.7 27.0 40.6  
86 62.9 50.3 75.5

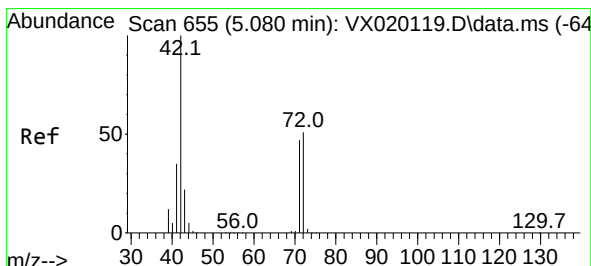
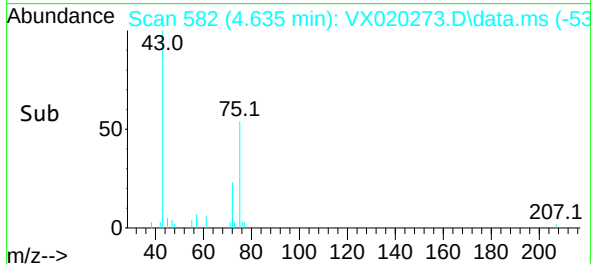
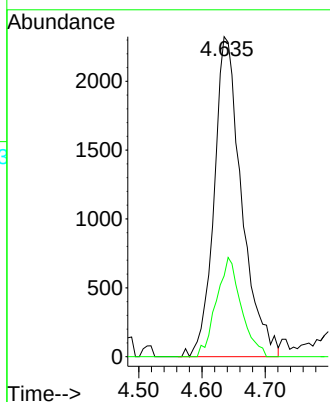
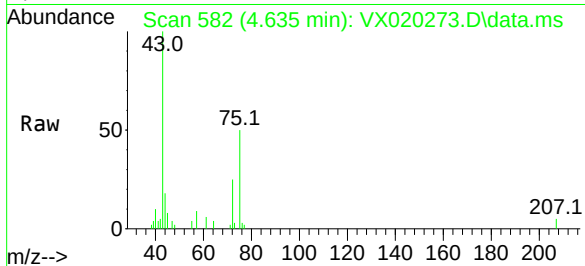




#25  
2-Butanone  
Concen: 2.92 ug/l  
RT: 4.635 min Scan# 582  
Delta R.T. 0.012 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

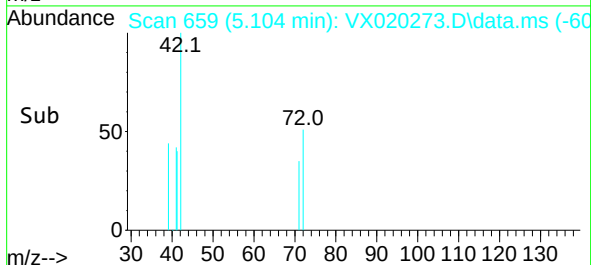
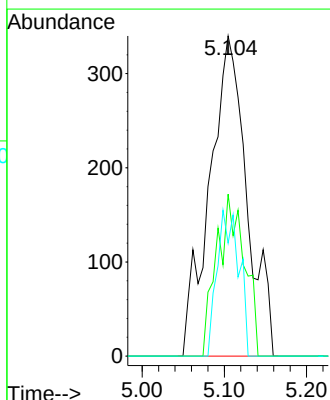
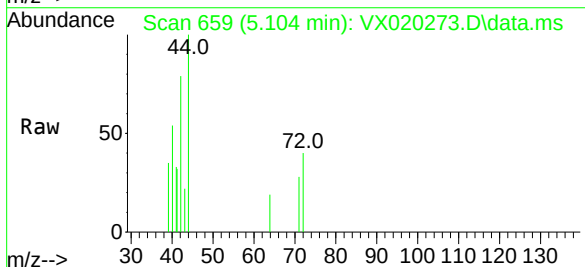
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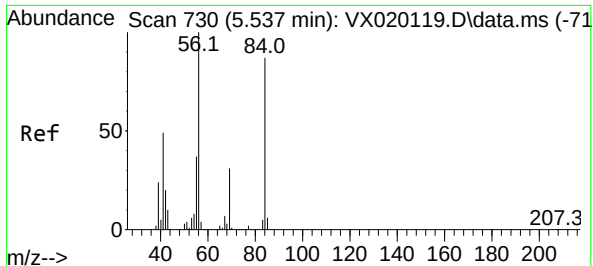
Tgt Ion: 43 Resp: 7020  
Ion Ratio Lower Upper  
43 100  
72 25.3 23.7 35.5



#29  
Tetrahydrofuran  
Concen: 0.71 ug/l  
RT: 5.104 min Scan# 659  
Delta R.T. 0.024 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

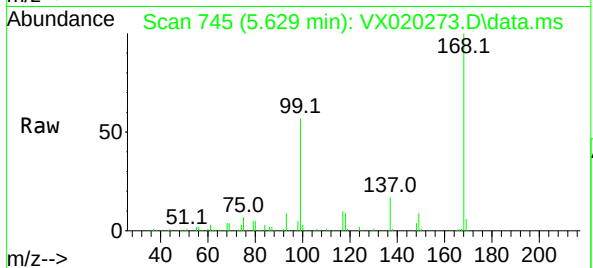
Tgt Ion: 42 Resp: 1069  
Ion Ratio Lower Upper  
42 100  
72 37.7 41.7 62.5#  
71 26.5 38.4 57.6#



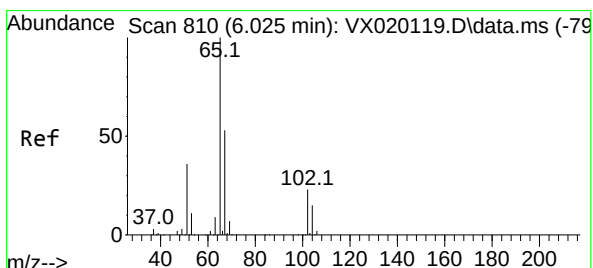
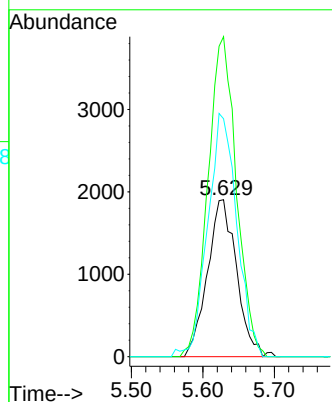
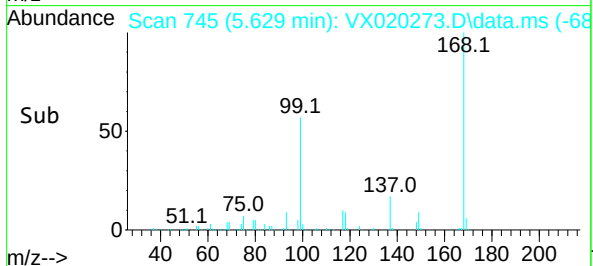


#31  
Cyclohexane  
Concen: 1.08 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. 0.092 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

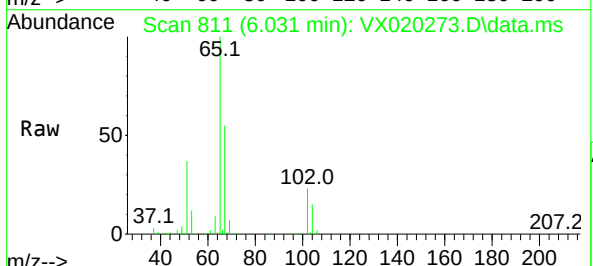
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MSVOA\_X  
ClientSampleId :  
PB133709ZHE#04



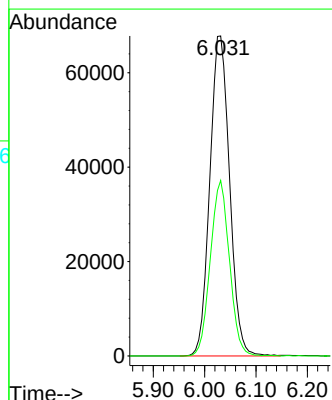
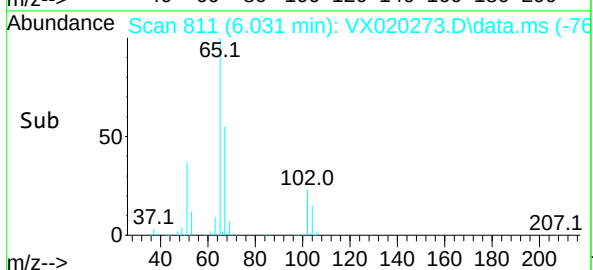
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Ion Ratio Lower Upper  
56 100  
69 203.8 25.3 37.9#  
84 151.5 71.4 107.0#



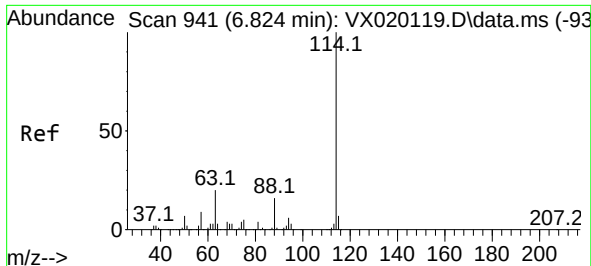
#33  
1,2-Dichloroethane-d4  
Concen: 50.03 ug/l  
RT: 6.031 min Scan# 811  
Delta R.T. 0.006 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59



Tgt Ion: 65 Resp: 181056  
Ion Ratio Lower Upper  
65 100  
67 52.9 0.0 105.4



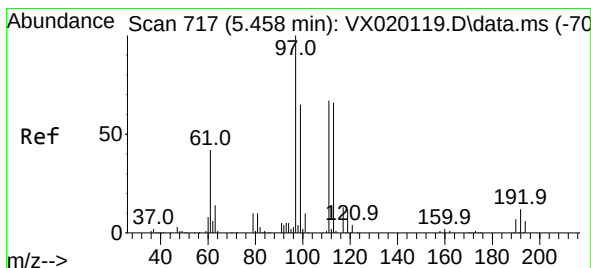
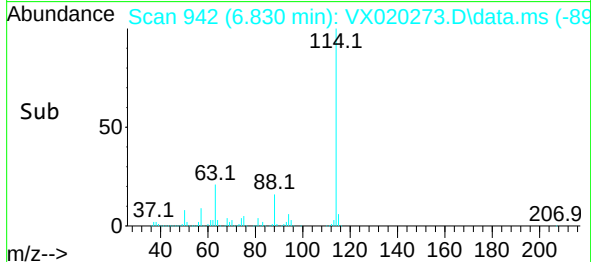
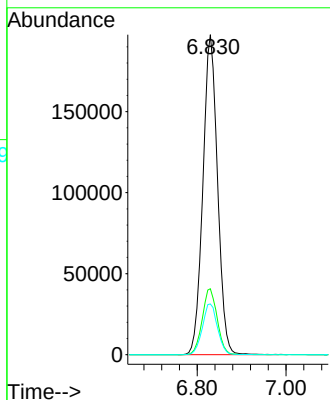
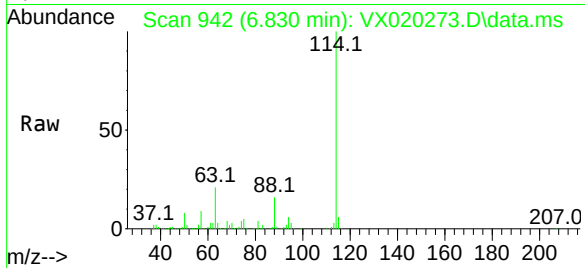




#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 6.830 min Scan# 942  
Delta R.T. 0.006 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

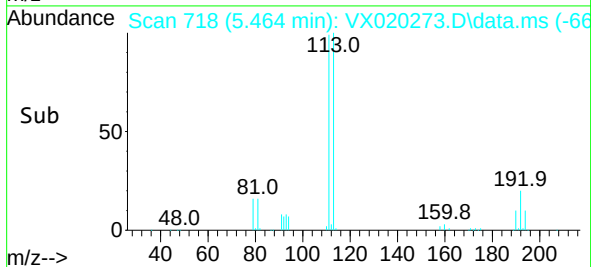
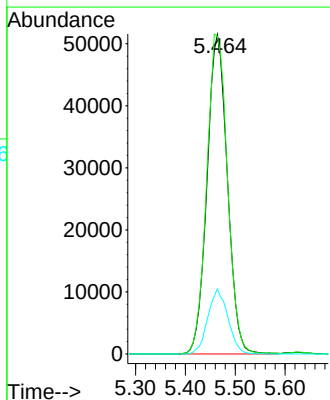
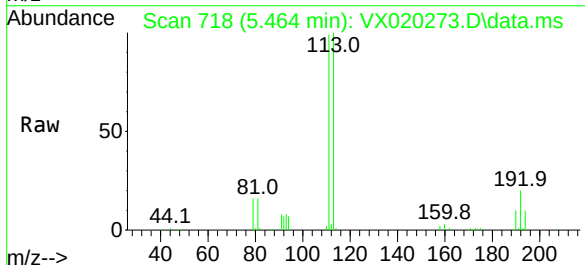
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#04

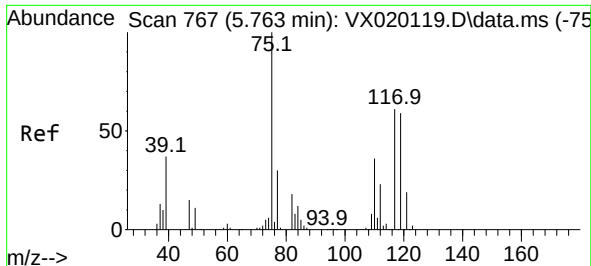
Tgt Ion:114 Resp: 453540  
Ion Ratio Lower Upper  
114 100  
63 20.6 0.0 40.8  
88 15.9 0.0 32.8



#35  
Dibromofluoromethane  
Concen: 50.36 ug/l  
RT: 5.464 min Scan# 718  
Delta R.T. 0.006 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

Tgt Ion:113 Resp: 146103  
Ion Ratio Lower Upper  
113 100  
111 102.2 81.9 122.9  
192 20.0 16.7 25.1

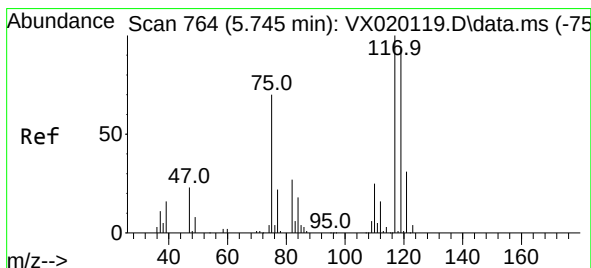
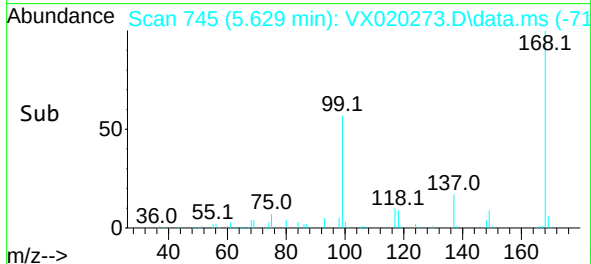
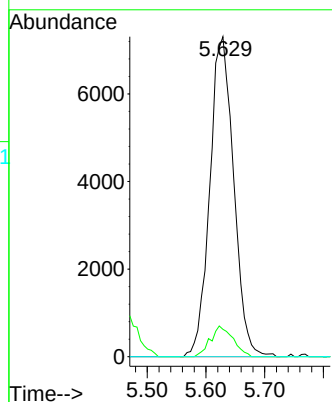
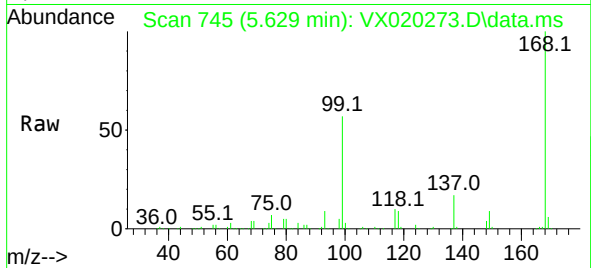




#36  
1,1-Dichloropropene  
Concen: 4.61 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. -0.134 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

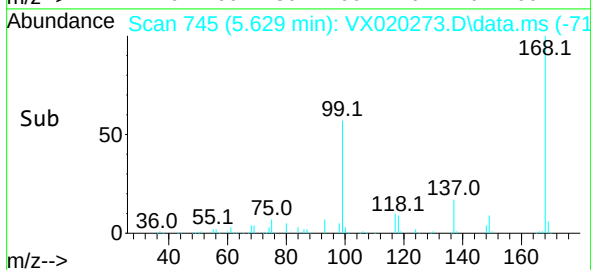
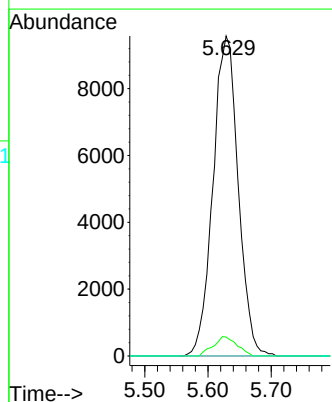
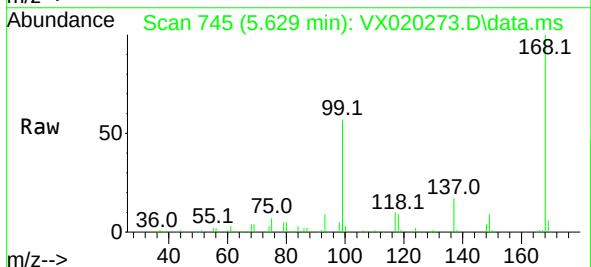
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#04

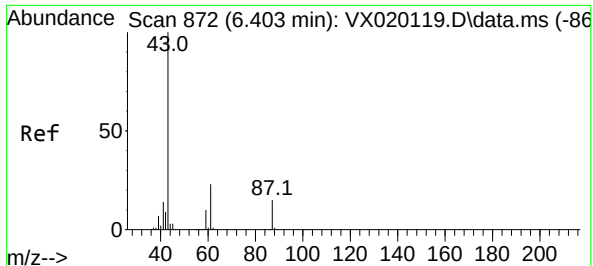
Tgt Ion: 75 Resp: 20649  
Ion Ratio Lower Upper  
75 100  
110 9.1 18.1 54.4#  
77 0.0 25.3 37.9#



#38  
Carbon Tetrachloride  
Concen: 6.21 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. -0.116 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

Tgt Ion: 117 Resp: 26483  
Ion Ratio Lower Upper  
117 100  
119 5.9 76.2 114.2#  
121 0.0 24.8 37.2#

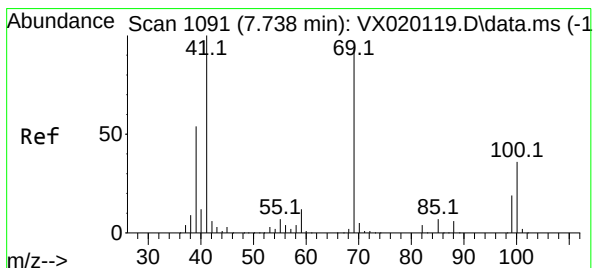
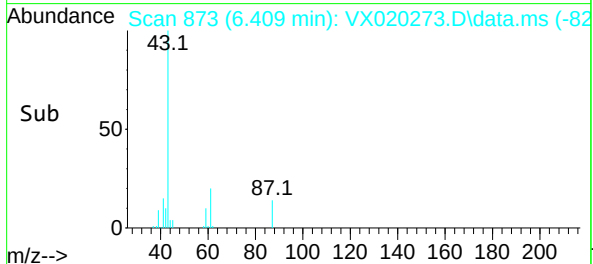
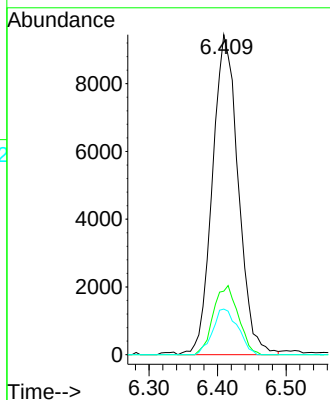
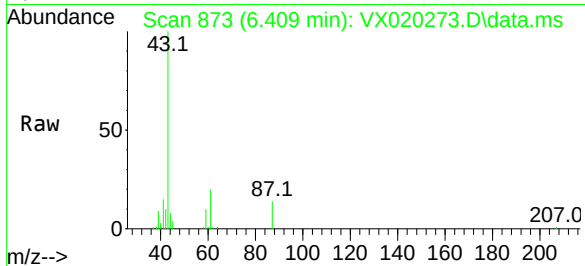




#43  
Isopropyl Acetate  
Concen: 3.36 ug/l  
RT: 6.409 min Scan# 873  
Delta R.T. 0.006 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

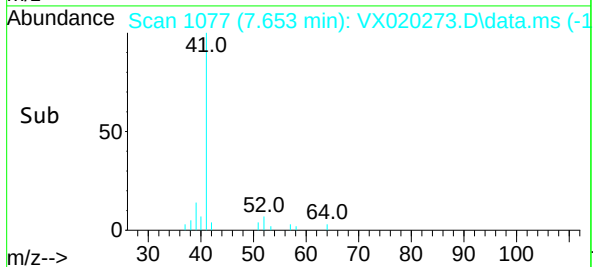
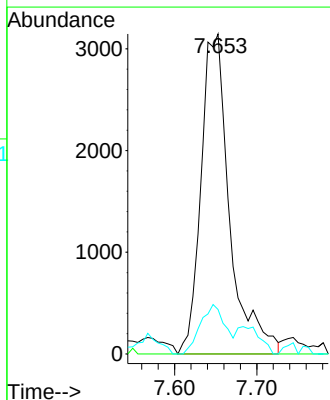
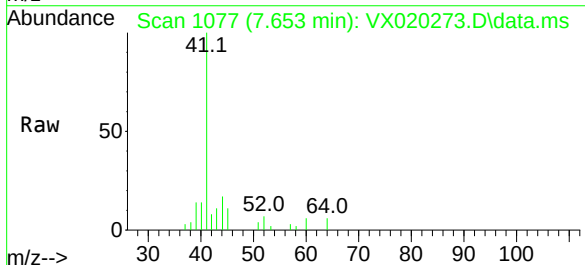
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#04

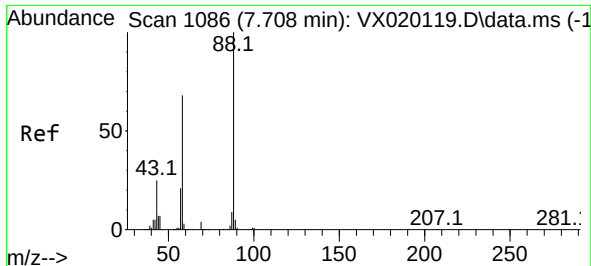
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 24732 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 20.8  | 18.2  | 27.4  |
| 87       | 13.9  | 12.5  | 18.7  |



#48  
Methyl methacrylate  
Concen: 2.11 ug/l  
RT: 7.653 min Scan# 1077  
Delta R.T. -0.085 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 7620   |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 69       | 0.0   | 76.0  | 114.0# |
| 39       | 0.0   | 44.6  | 67.0#  |

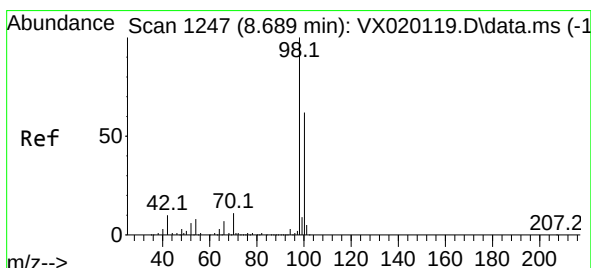
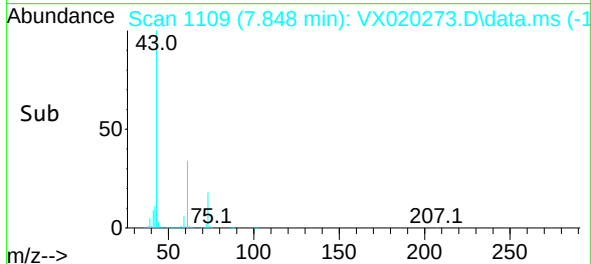
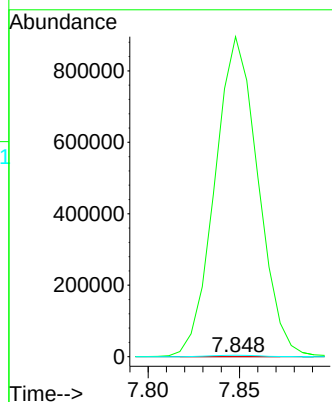
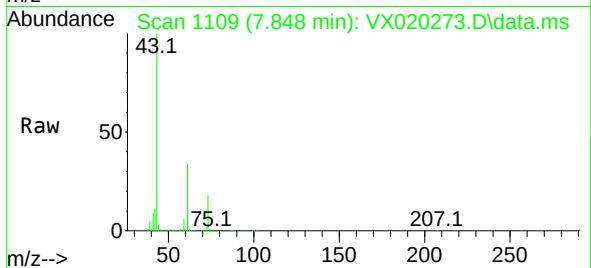




#49  
1,4-Dioxane  
Concen: 2.81 ug/l  
RT: 7.848 min Scan# 1109  
Delta R.T. 0.140 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

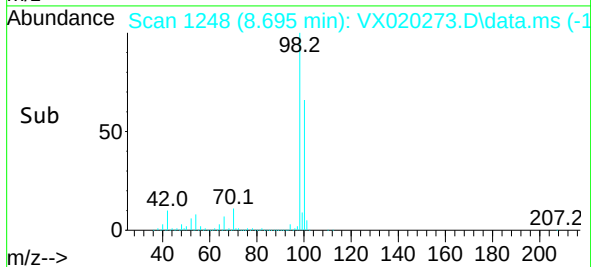
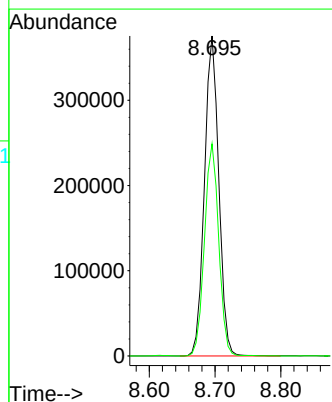
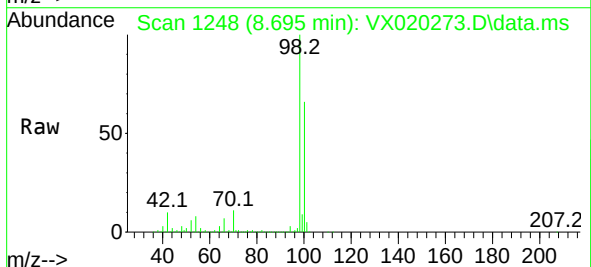
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#04

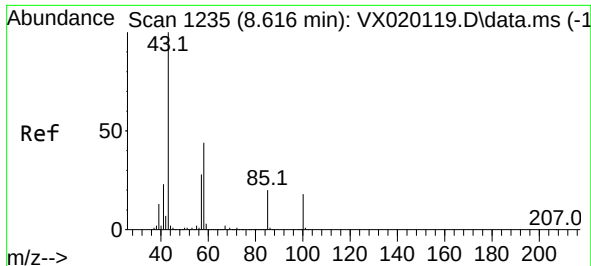
Tgt Ion: 88 Resp: 237  
Ion Ratio Lower Upper  
88 100  
43 625904.2 23.2 34.8#  
58 3316.9 55.0 82.4#



#50  
Toluene-d8  
Concen: 50.92 ug/l  
RT: 8.695 min Scan# 1248  
Delta R.T. 0.006 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

Tgt Ion: 98 Resp: 568703  
Ion Ratio Lower Upper  
98 100  
100 66.2 51.9 77.9

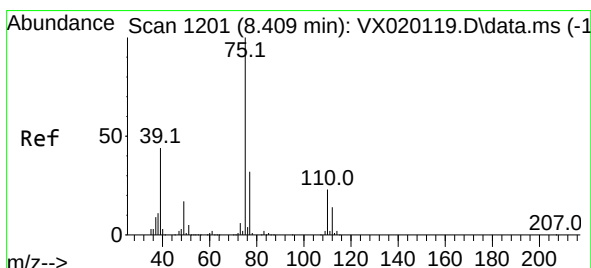
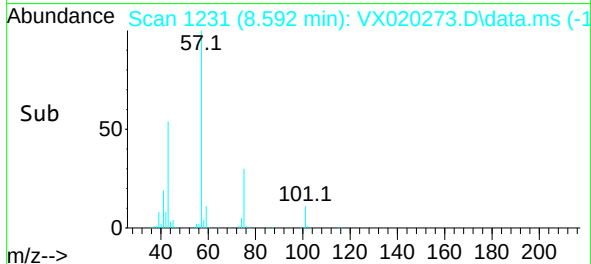
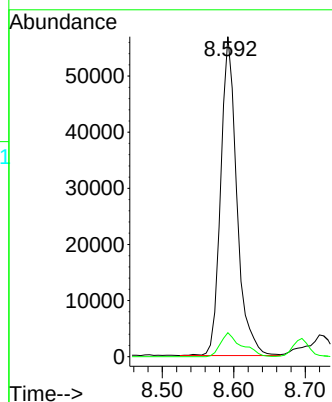
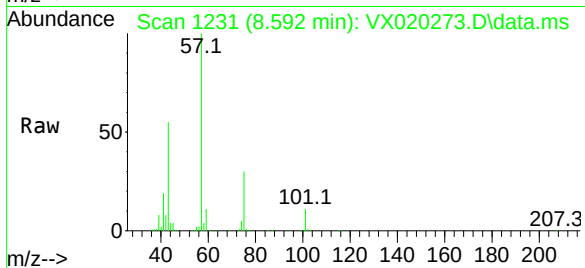




#51  
4-Methyl-2-Pentanone  
Concen: 19.59 ug/l  
RT: 8.592 min Scan# 1231  
Delta R.T. -0.024 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

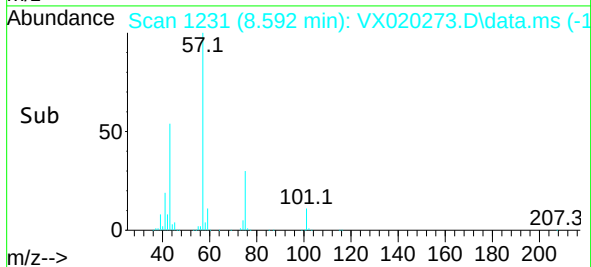
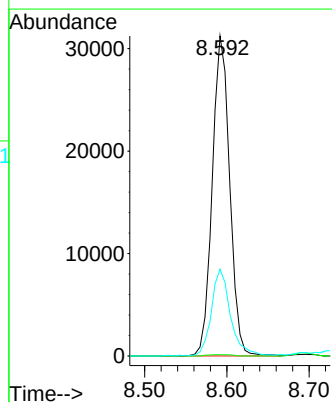
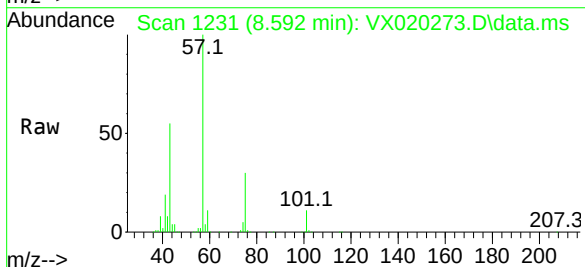
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#04

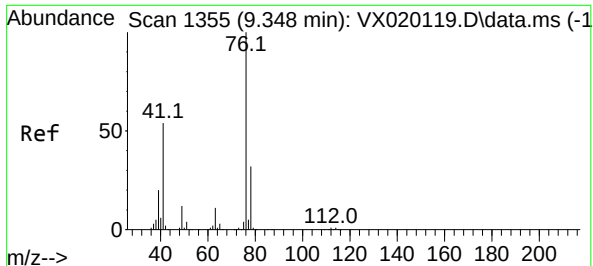
Tgt Ion: 43 Resp: 89168  
Ion Ratio Lower Upper  
43 100  
58 9.8 35.4 53.0#



#54  
cis-1,3-Dichloropropene  
Concen: 8.28 ug/l  
RT: 8.592 min Scan# 1231  
Delta R.T. 0.183 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

Tgt Ion: 75 Resp: 46011  
Ion Ratio Lower Upper  
75 100  
77 0.4 25.7 38.5#  
39 26.8 35.1 52.7#

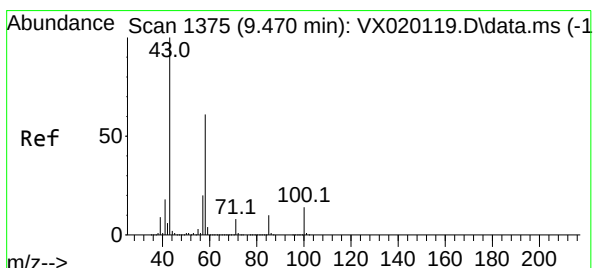
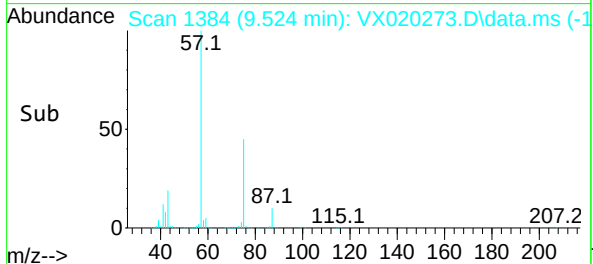
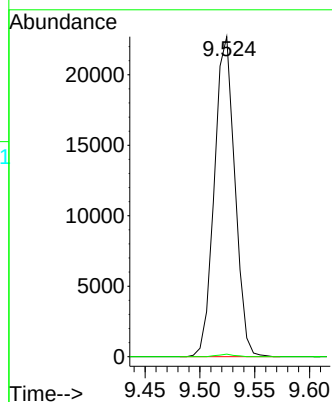
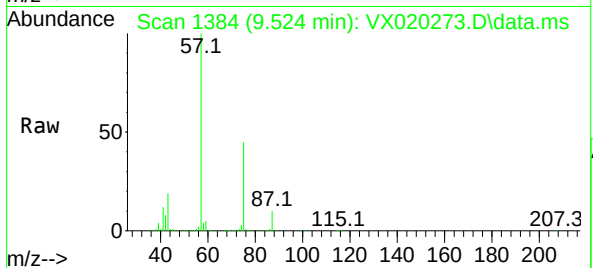




#57  
1,3-Dichloropropane  
Concen: 4.94 ug/l  
RT: 9.524 min Scan# 1384  
Delta R.T. 0.176 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

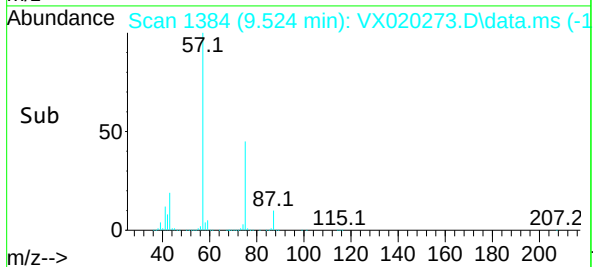
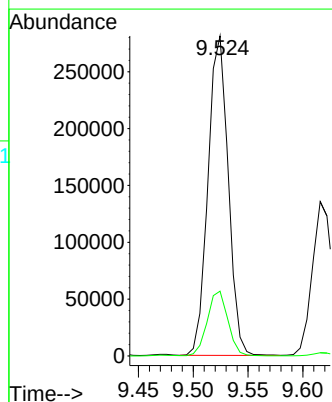
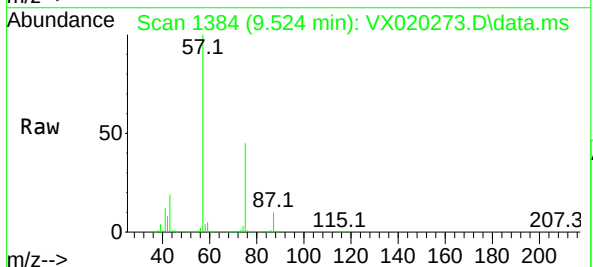
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#04

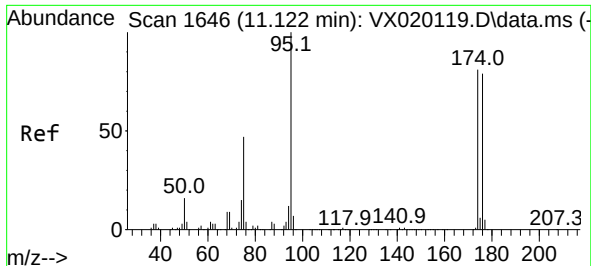
Tgt Ion: 76 Resp: 29521  
Ion Ratio Lower Upper  
76 100  
78 0.6 26.2 39.2#



#59  
2-Hexanone  
Concen: 103.86 ug/l  
RT: 9.524 min Scan# 1384  
Delta R.T. 0.054 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

Tgt Ion: 43 Resp: 360320  
Ion Ratio Lower Upper  
43 100  
58 20.6 30.9 92.8#

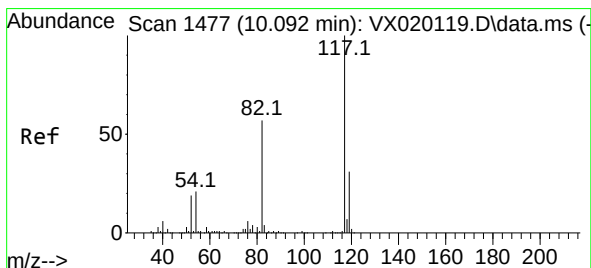
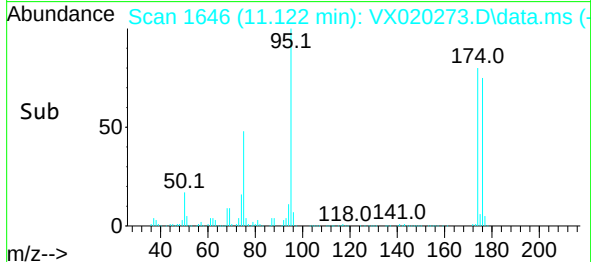
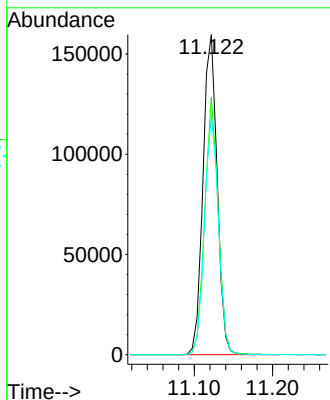
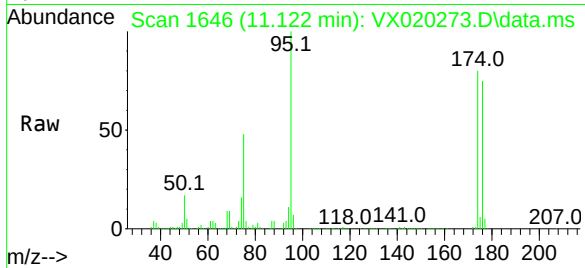




#62  
4-Bromofluorobenzene  
Concen: 46.75 ug/l  
RT: 11.122 min Scan# 1646  
Delta R.T. -0.000 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

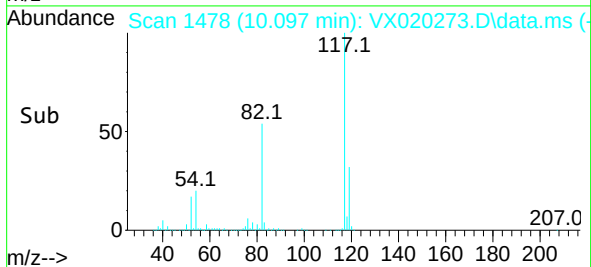
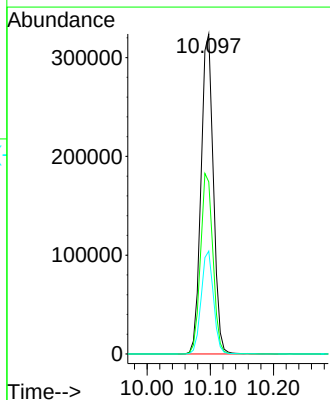
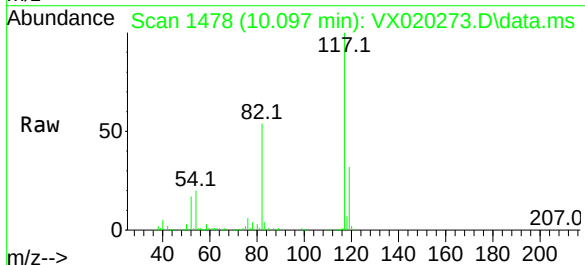
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#04

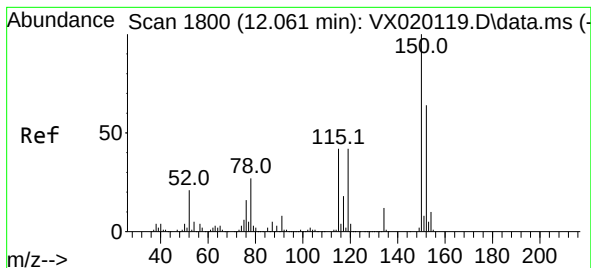
Tgt Ion: 95 Resp: 199835  
Ion Ratio Lower Upper  
95 100  
174 77.4 0.0 154.6  
176 73.6 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.097 min Scan# 1478  
Delta R.T. 0.005 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

Tgt Ion: 117 Resp: 440162  
Ion Ratio Lower Upper  
117 100  
82 53.8 47.4 71.2  
119 32.2 26.6 39.8

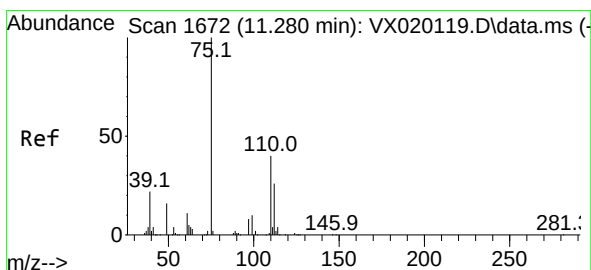
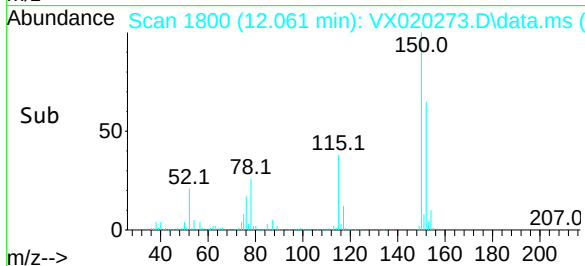
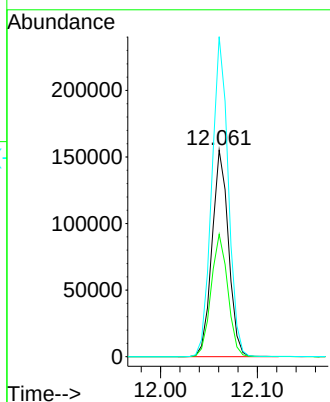
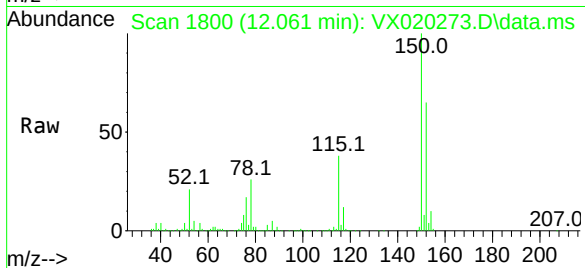




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 12.061 min Scan# 1800  
 Delta R.T. -0.000 min  
 Lab File: VX020273.D  
 Acq: 22 Dec 2020 00:59

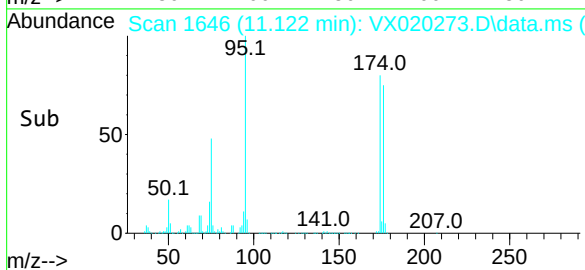
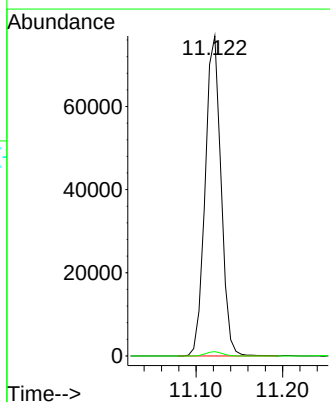
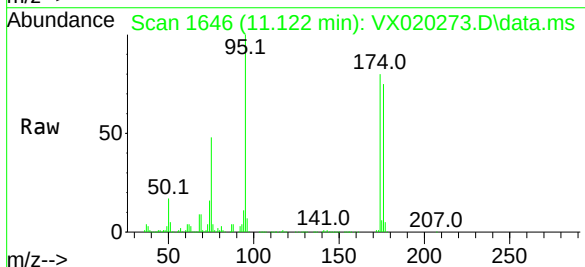
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB133709ZHE#04

Tgt Ion:152 Resp: 183524  
 Ion Ratio Lower Upper  
 152 100  
 115 60.0 41.1 123.3  
 150 155.0 0.0 349.0

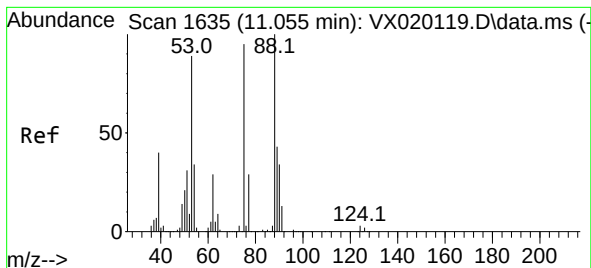


#76  
 1,2,3-Trichloropropane  
 Concen: 21.58 ug/l  
 RT: 11.122 min Scan# 1646  
 Delta R.T. -0.158 min  
 Lab File: VX020273.D  
 Acq: 22 Dec 2020 00:59

Tgt Ion: 75 Resp: 97543  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 19.1 57.5#

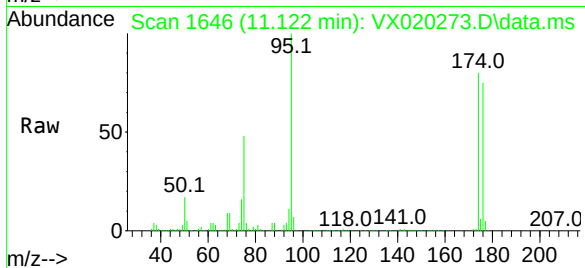




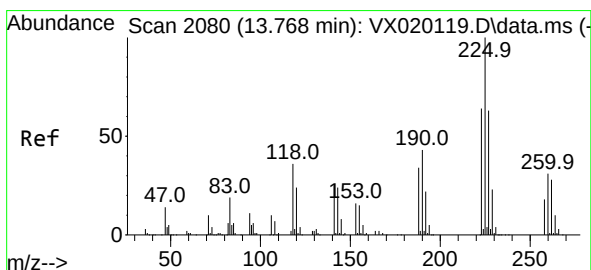
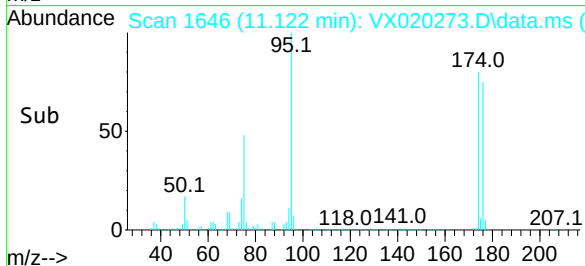
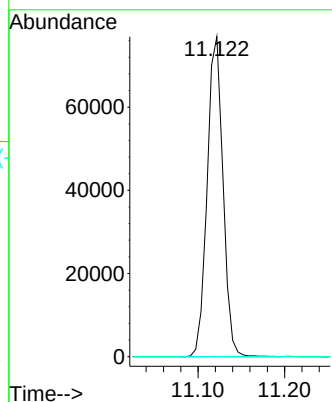


#81  
trans-1,4-Dichloro-2-butene  
Concen: 64.01 ug/l  
RT: 11.122 min Scan# 1646  
Delta R.T. 0.067 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59

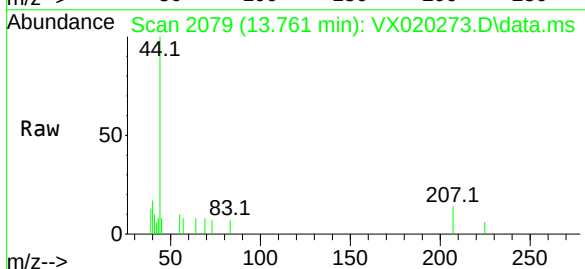
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#04



Tgt Ion: 75 Resp: 97543  
Ion Ratio Lower Upper  
75 100  
53 0.1 74.5 111.7#  
89 0.0 37.9 56.9#



#94  
Hexachlorobutadiene  
Concen: 2.65 ug/l  
RT: 13.761 min Scan# 2079  
Delta R.T. -0.007 min  
Lab File: VX020273.D  
Acq: 22 Dec 2020 00:59



Tgt Ion: 225 Resp: 20  
Ion Ratio Lower Upper  
225 100  
223 0.0 31.1 93.2#  
227 0.0 31.6 95.0#

