

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122120\  
 Data File : VX020275.D  
 Acq On : 22 Dec 2020 01:46  
 Operator : JC/MD  
 Sample : PB133709ZHE#06  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB133709ZHE#06

Quant Time: Dec 22 05:17:02 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

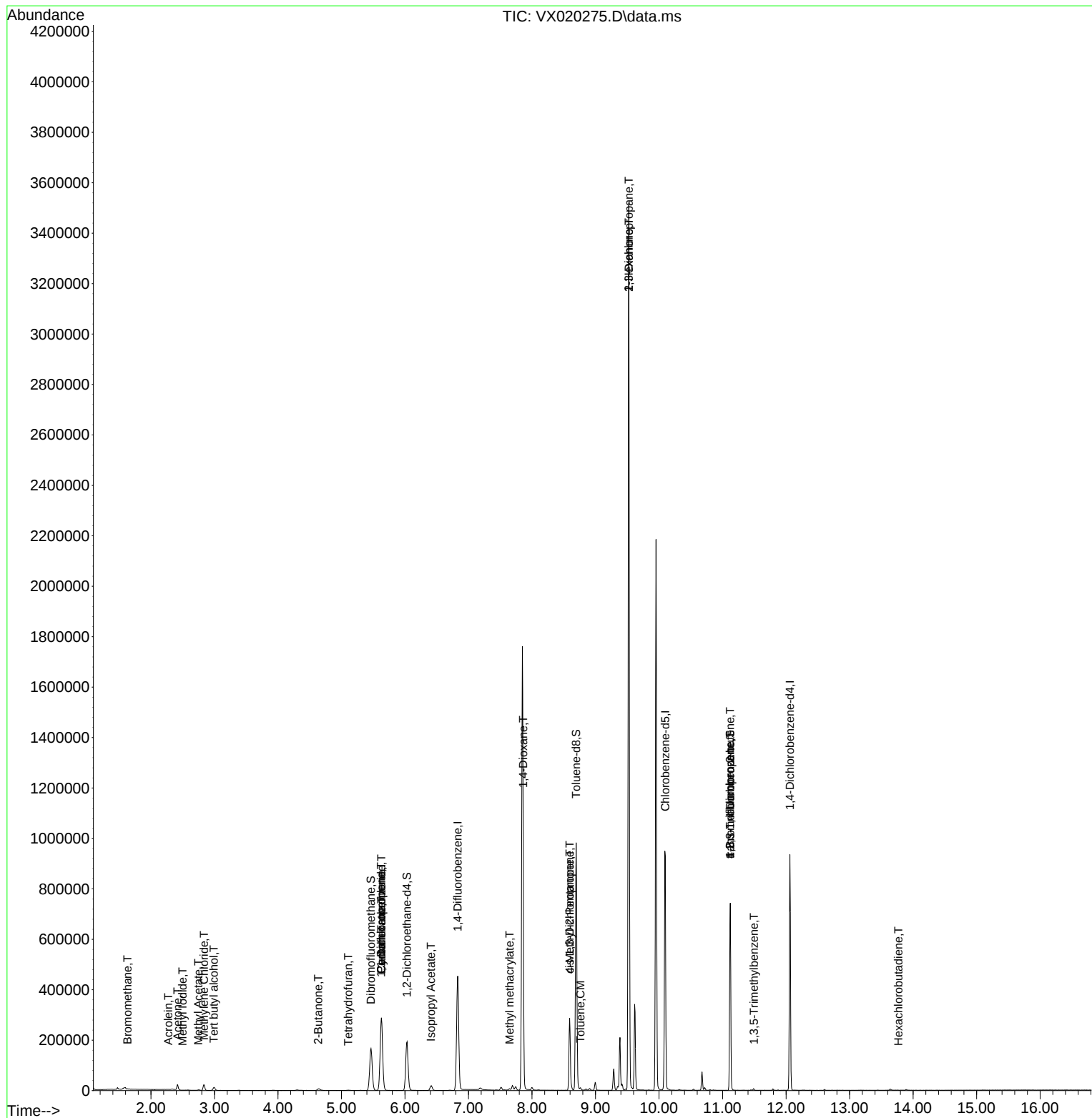
| Compound                      | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                         |                |      |                    |        |        |          |
| Internal Standards            |                |      |                    |        |        |          |
| 1) Pentafluorobenzene         | 5.629          | 168  | 271051             | 50.00  | ug/l   | 0.01     |
| 34) 1,4-Difluorobenzene       | 6.830          | 114  | 455166             | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.098         | 117  | 441110             | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.061         | 152  | 186677             | 50.00  | ug/l   | 0.00     |
|                               |                |      |                    |        |        |          |
| System Monitoring Compounds   |                |      |                    |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 6.031          | 65   | 183096             | 50.39  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 100.78% |        |        |          |
| 35) Dibromofluoromethane      | 5.464          | 113  | 146994             | 50.48  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 100.96% |        |        |          |
| 50) Toluene-d8                | 8.695          | 98   | 576658             | 51.45  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 102.90% |        |        |          |
| 62) 4-Bromofluorobenzene      | 11.122         | 95   | 200781             | 46.81  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 93.62%  |        |        |          |
|                               |                |      |                    |        |        |          |
| Target Compounds              |                |      |                    |        | Qvalue |          |
| 5) Bromomethane               | 1.630          | 94   | 302                | 0.25   | ug/l # | 68       |
| 10) Methyl Iodide             | 2.495          | 142  | 30                 | 3.29   | ug/l # | 42       |
| 11) Tert butyl alcohol        | 2.989          | 59   | 7717               | 9.49   | ug/l # | 80       |
| 13) Acrolein                  | 2.270          | 56   | 170                | 0.33   | ug/l # | 14       |
| 16) Acetone                   | 2.416          | 43   | 21782              | 13.15  | ug/l   | 98       |
| 18) Methyl Acetate            | 2.745          | 43   | 3402               | 0.92   | ug/l   | 93       |
| 20) Methylene Chloride        | 2.837          | 84   | 10341              | 2.77   | ug/l   | 98       |
| 25) 2-Butanone                | 4.635          | 43   | 9029               | 3.74   | ug/l   | 95       |
| 29) Tetrahydrofuran           | 5.105          | 42   | 1229               | 0.81   | ug/l # | 72       |
| 31) Cyclohexane               | 5.629          | 56   | 5397               | 1.08   | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.623          | 75   | 21068              | 4.68   | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.629          | 117  | 26786              | 6.26   | ug/l # | 17       |
| 43) Isopropyl Acetate         | 6.409          | 43   | 25093              | 3.40   | ug/l   | 97       |
| 48) Methyl methacrylate       | 7.647          | 41   | 7313               | 2.02   | ug/l # | 10       |
| 49) 1,4-Dioxane               | 7.860          | 88   | 294                | 3.47   | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.592          | 43   | 91379              | 20.00  | ug/l # | 47       |
| 52) Toluene                   | 8.762          | 92   | 2113               | 0.25   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.592          | 75   | 46321              | 8.31   | ug/l # | 62       |
| 57) 1,3-Dichloropropane       | 9.525          | 76   | 30047              | 5.01   | ug/l # | 43       |
| 59) 2-Hexanone                | 9.525          | 43   | 368003             | 105.69 | ug/l # | 46       |
| 76) 1,2,3-Trichloropropane    | 11.122         | 75   | 99136              | 21.56  | ug/l # | 39       |
| 80) 1,3,5-Trimethylbenzene    | 11.494         | 105  | 2773               | 0.24   | ug/l   | 94       |
| 81) trans-1,4-Dichloro-2-b... | 11.122         | 75   | 99136              | 63.96  | ug/l # | 12       |
| 94) Hexachlorobutadiene       | 13.768         | 225  | 46                 | 2.67   | ug/l # | 19       |
| -----                         |                |      |                    |        |        |          |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122120\  
Data File : VX020275.D  
Acq On : 22 Dec 2020 01:46  
Operator : JC/MD  
Sample : PB133709ZHE#06  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#06

Quant Time: Dec 22 05:17:02 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

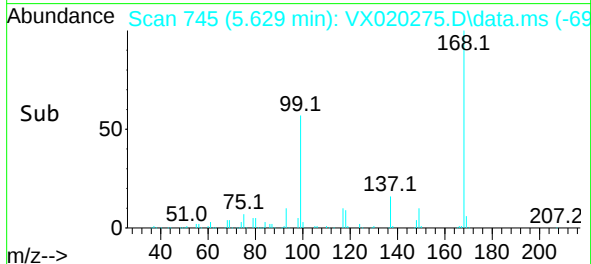
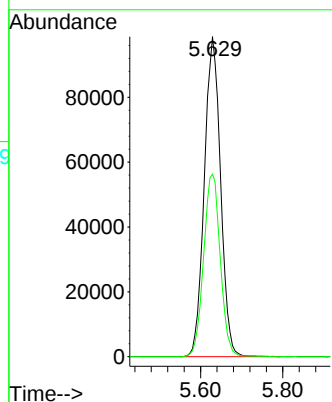
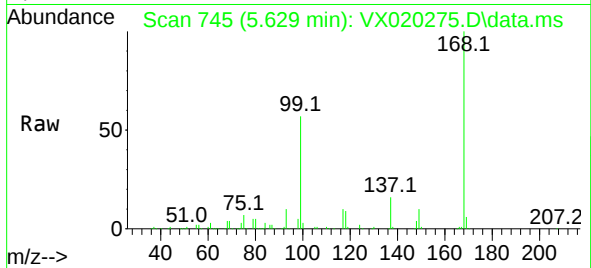




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. 0.012 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

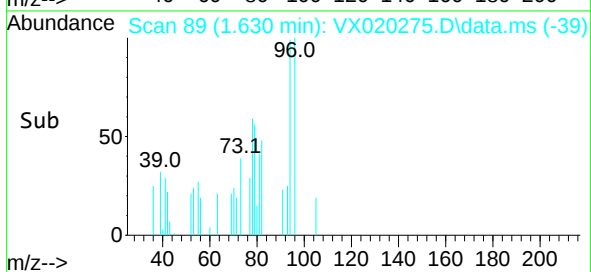
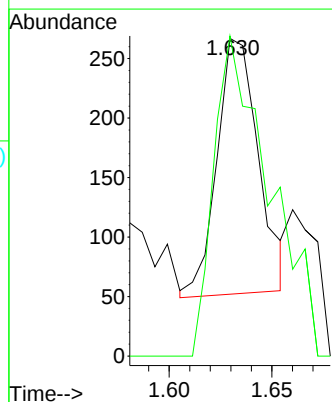
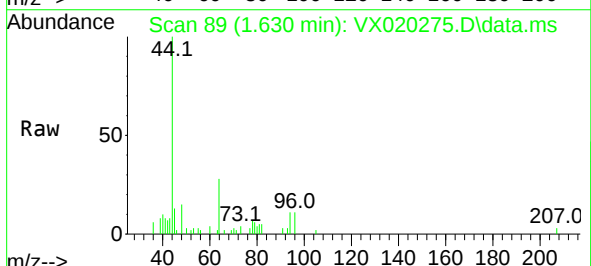
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#06

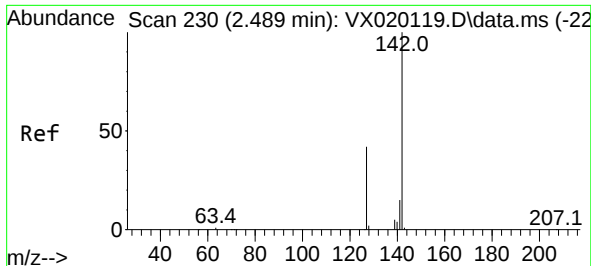
Tgt Ion:168 Resp: 271051  
Ion Ratio Lower Upper  
168 100  
99 57.0 45.8 68.6



#5  
Bromomethane  
Concen: 0.25 ug/l  
RT: 1.630 min Scan# 89  
Delta R.T. 0.006 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

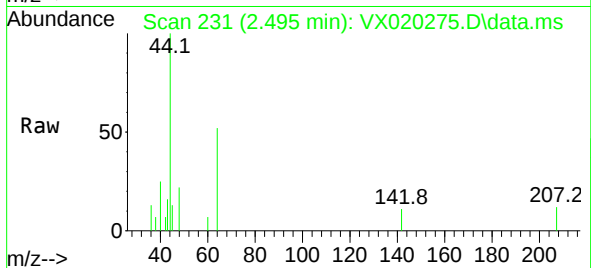
Tgt Ion: 94 Resp: 302  
Ion Ratio Lower Upper  
94 100  
96 126.9 76.4 114.6#



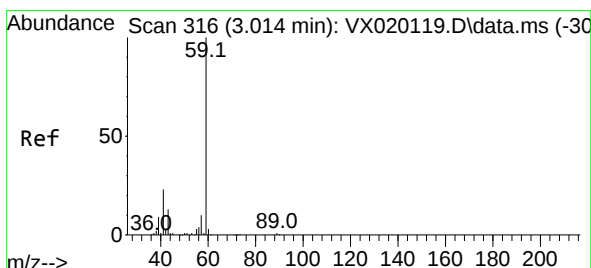
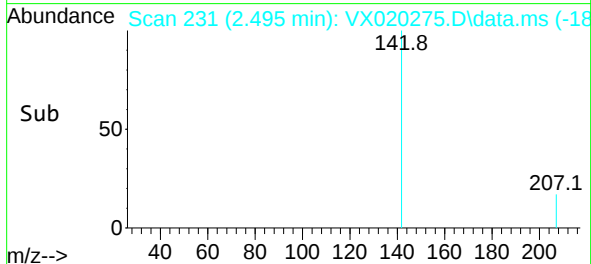
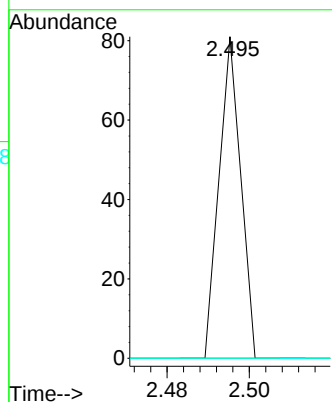


#10  
Methyl Iodide  
Concen: 3.29 ug/l  
RT: 2.495 min Scan# 231  
Delta R.T. 0.006 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#06

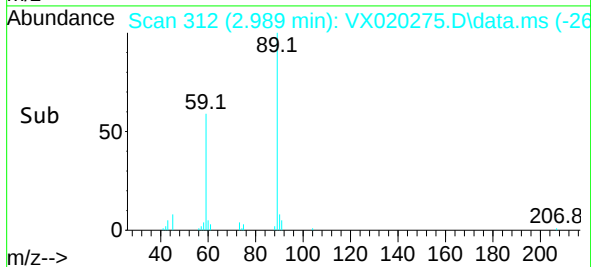
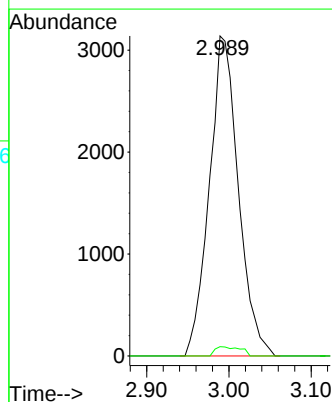
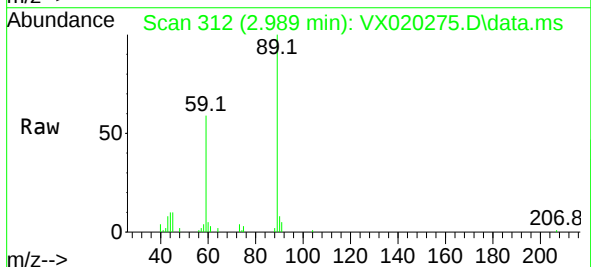


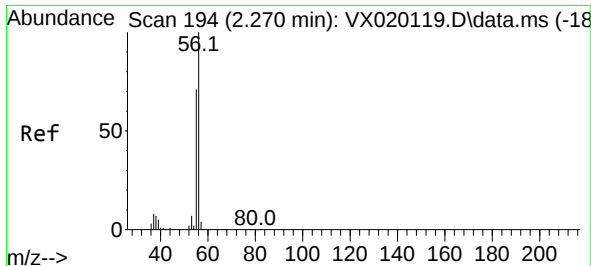
Tgt Ion:142 Resp: 30  
Ion Ratio Lower Upper  
142 100  
127 0.0 33.3 49.9#  
141 0.0 11.4 17.0#



#11  
Tert butyl alcohol  
Concen: 9.49 ug/l  
RT: 2.989 min Scan# 312  
Delta R.T. -0.025 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

Tgt Ion: 59 Resp: 7717  
Ion Ratio Lower Upper  
59 100  
57 2.5 7.8 11.8#

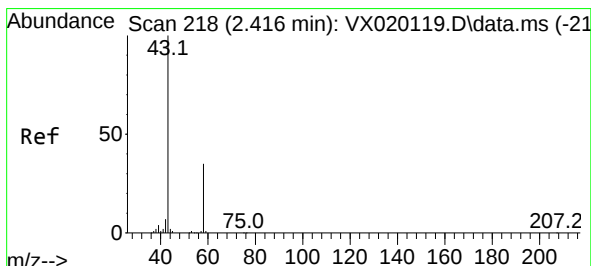
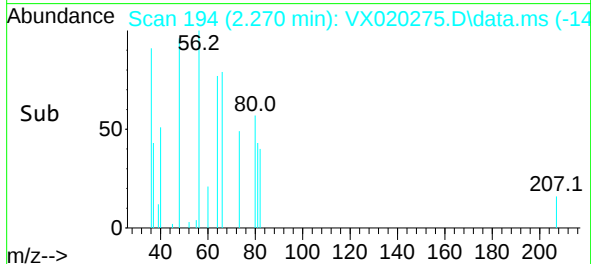
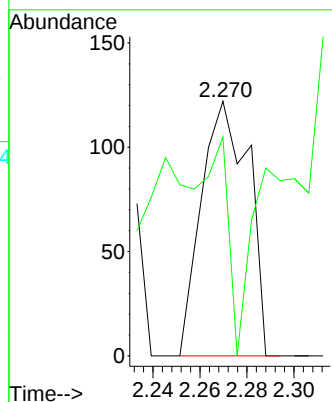
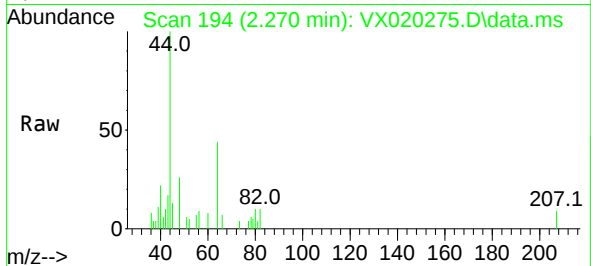




#13  
Acrolein  
Concen: 0.33 ug/l  
RT: 2.270 min Scan# 194  
Delta R.T. -0.000 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

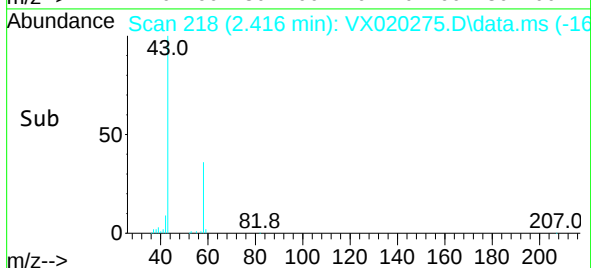
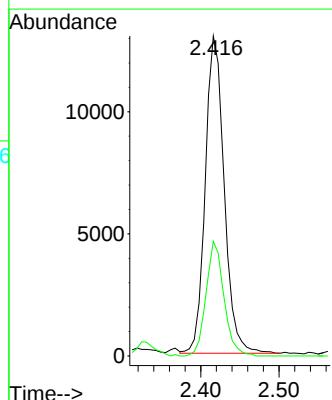
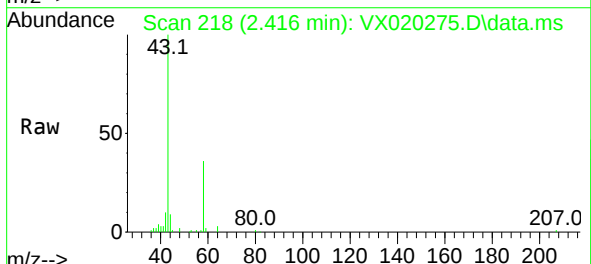
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#06

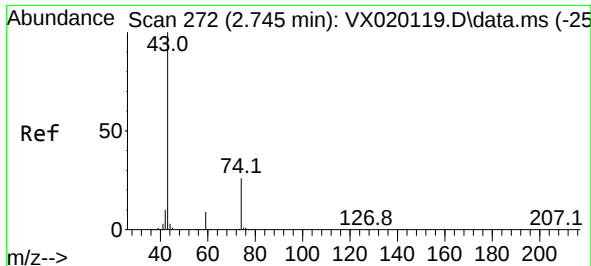
Tgt Ion: 56 Resp: 170  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.4 84.6#



#16  
Acetone  
Concen: 13.15 ug/l  
RT: 2.416 min Scan# 218  
Delta R.T. 0.000 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

Tgt Ion: 43 Resp: 21782  
Ion Ratio Lower Upper  
43 100  
58 36.1 27.8 41.8





#18

Methyl Acetate

Concen: 0.92 ug/l

RT: 2.745 min Scan# 272

Delta R.T. 0.000 min

Lab File: VX020275.D

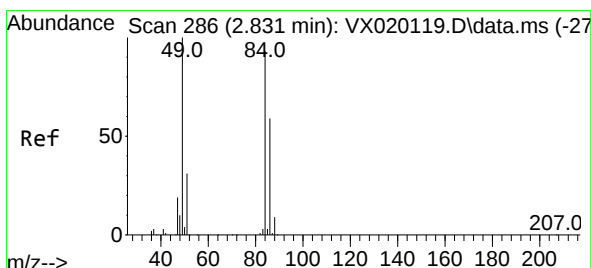
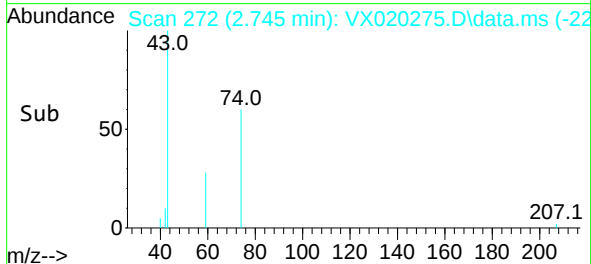
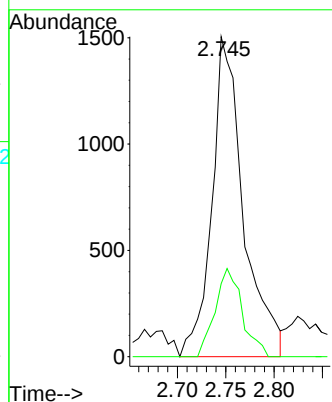
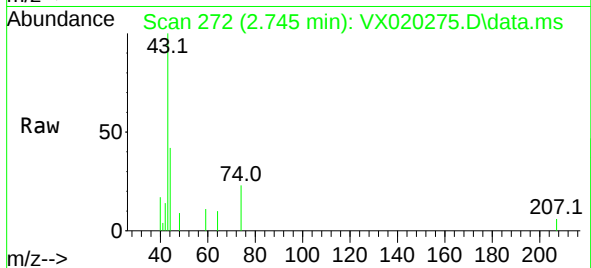
Acq: 22 Dec 2020 01:46

Tgt Ion: 43 Resp: 3402

Ion Ratio Lower Upper

43 100

74 23.8 21.9 32.9



#20

Methylene Chloride

Concen: 2.77 ug/l

RT: 2.837 min Scan# 287

Delta R.T. 0.006 min

Lab File: VX020275.D

Acq: 22 Dec 2020 01:46

Tgt Ion: 84 Resp: 10341

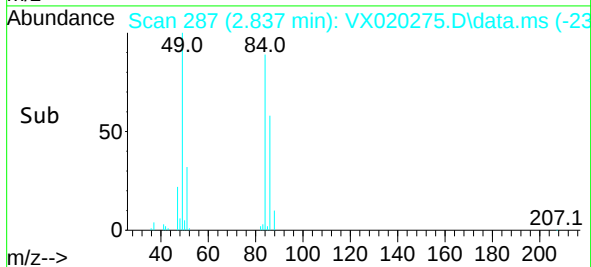
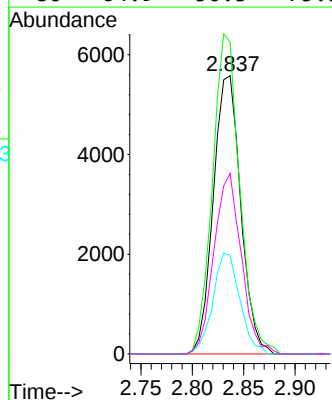
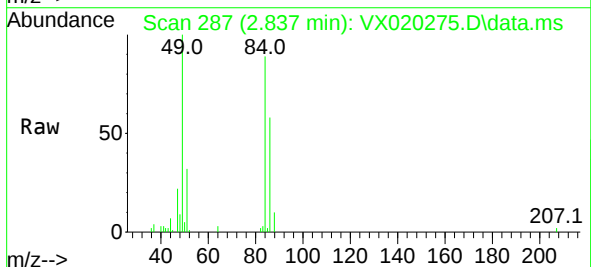
Ion Ratio Lower Upper

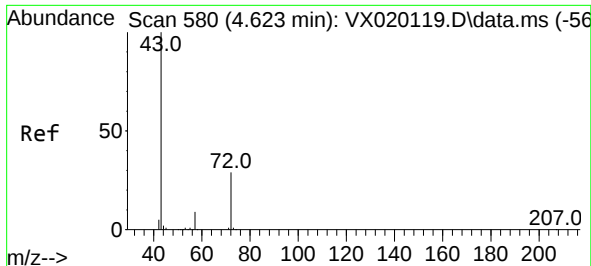
84 100

49 112.1 88.6 132.8

51 35.4 27.0 40.6

86 64.9 50.3 75.5

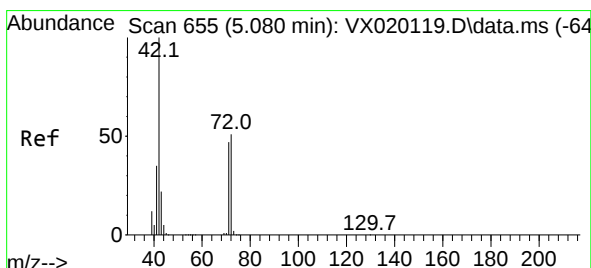
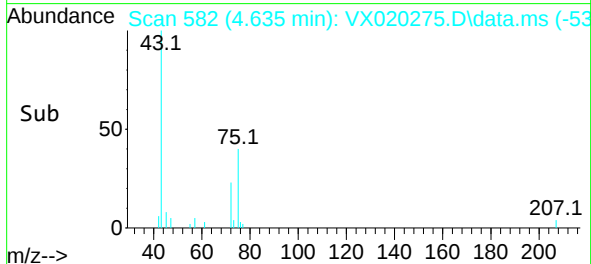
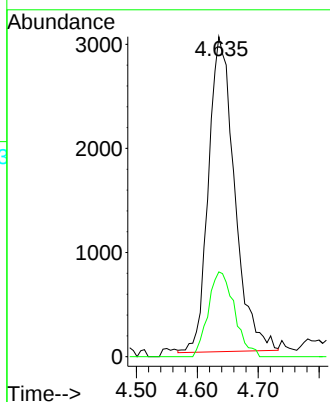
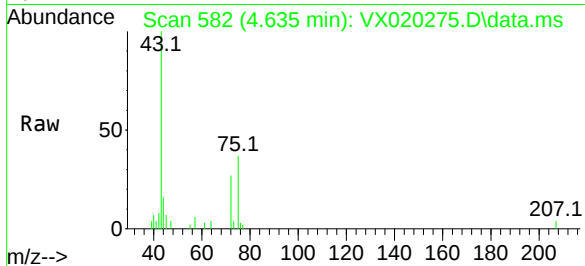




#25  
2-Butanone  
Concen: 3.74 ug/l  
RT: 4.635 min Scan# 582  
Delta R.T. 0.012 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

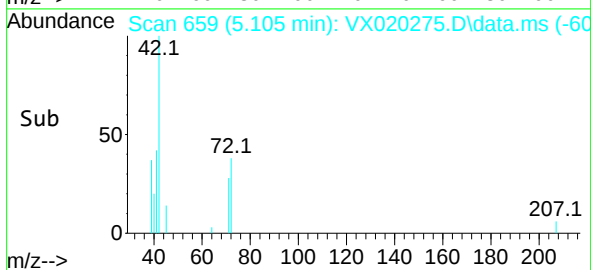
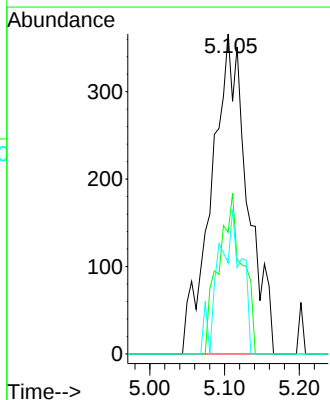
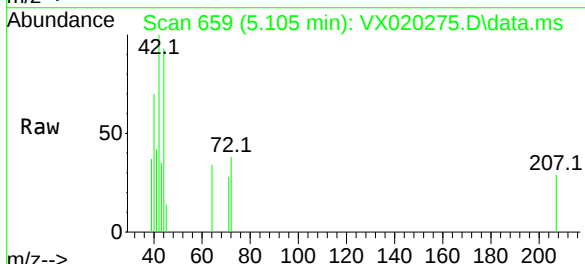
Instrument :  
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ClientSampleId :  
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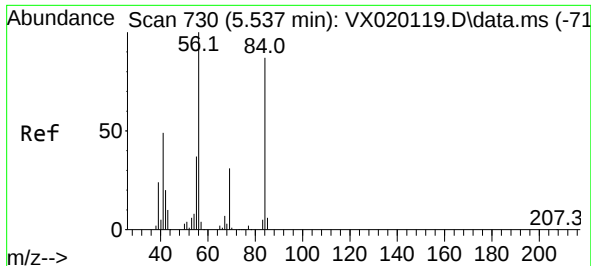
Tgt Ion: 43 Resp: 9029  
Ion Ratio Lower Upper  
43 100  
72 27.1 23.7 35.5



#29  
Tetrahydrofuran  
Concen: 0.81 ug/l  
RT: 5.105 min Scan# 659  
Delta R.T. 0.025 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

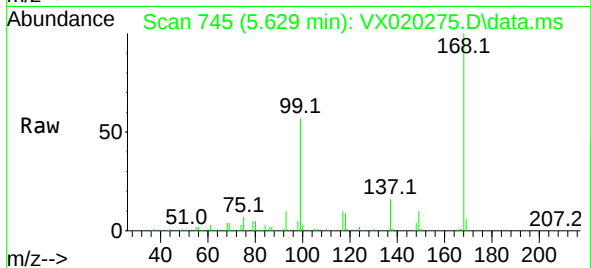
Tgt Ion: 42 Resp: 1229  
Ion Ratio Lower Upper  
42 100  
72 33.4 41.7 62.5#  
71 28.7 38.4 57.6#



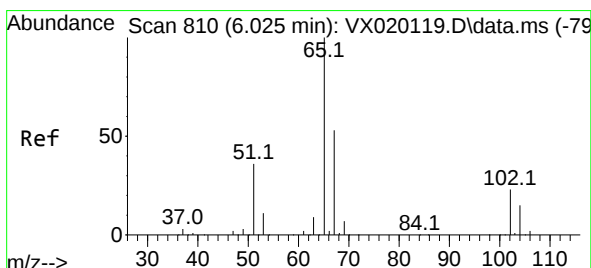
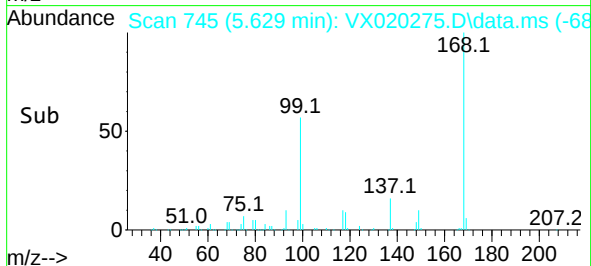
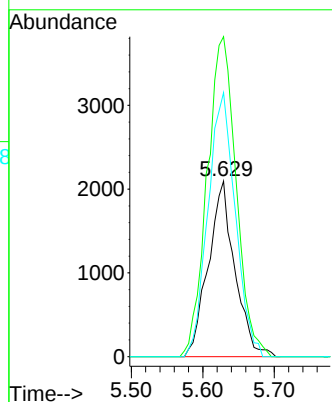


#31  
Cyclohexane  
Concen: 1.08 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. 0.092 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#06

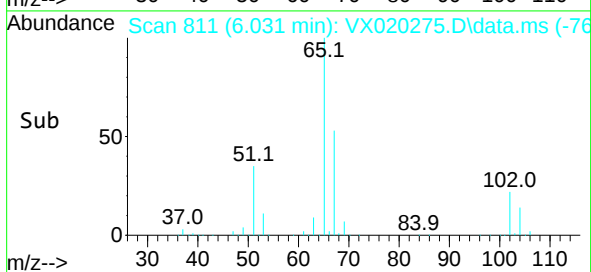
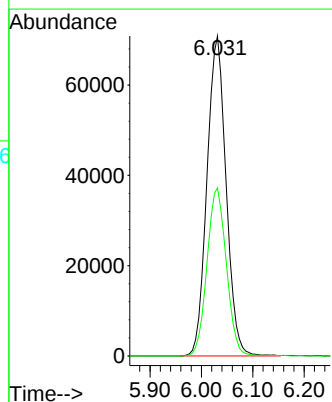
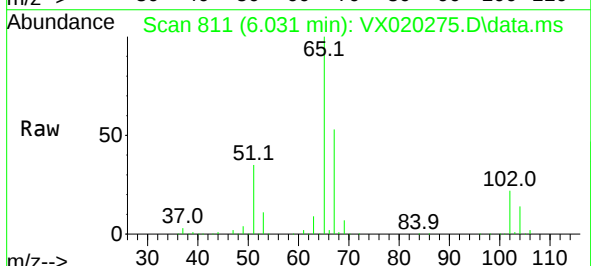


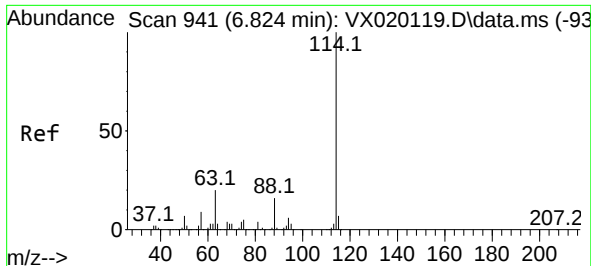
Tgt Ion: 56 Resp: 5397  
Ion Ratio Lower Upper  
56 100  
69 182.3 25.3 37.9#  
84 150.4 71.4 107.0#



#33  
1,2-Dichloroethane-d4  
Concen: 50.39 ug/l  
RT: 6.031 min Scan# 811  
Delta R.T. 0.006 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

Tgt Ion: 65 Resp: 183096  
Ion Ratio Lower Upper  
65 100  
67 53.1 0.0 105.4

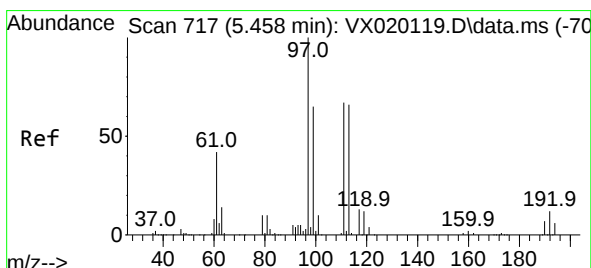
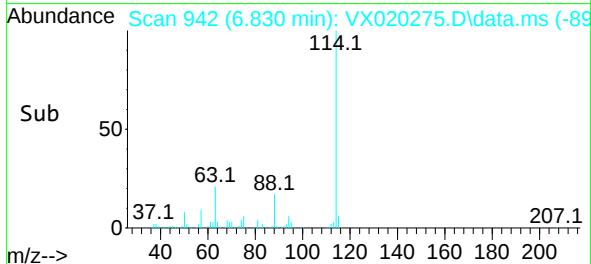
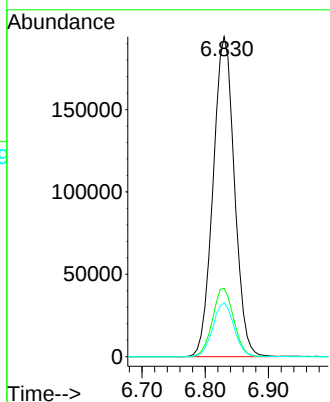
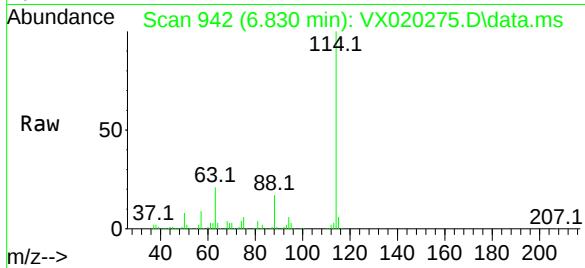




#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 6.830 min Scan# 942  
Delta R.T. 0.006 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

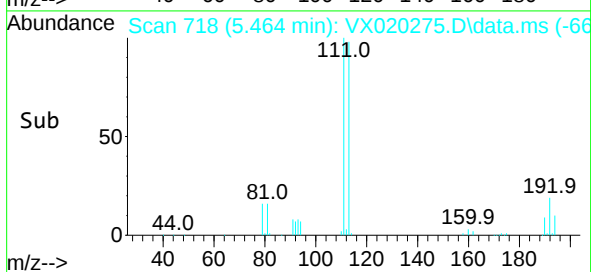
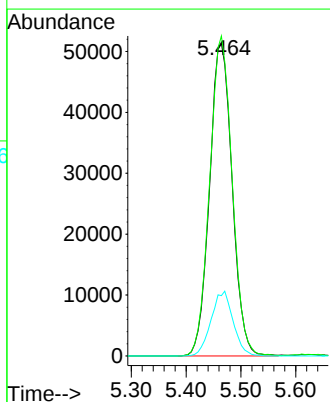
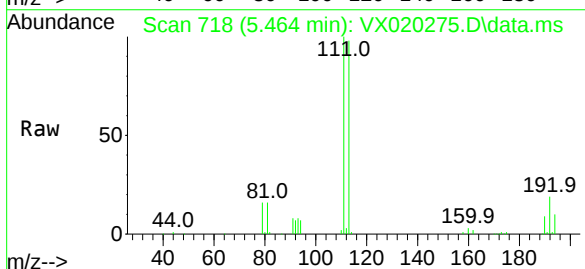
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#06

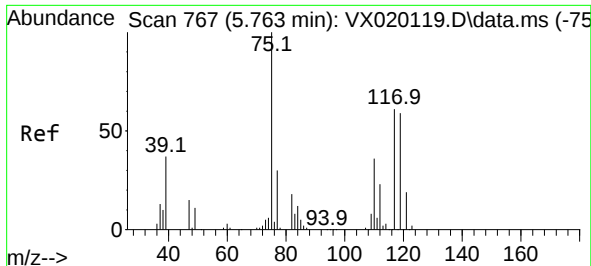
Tgt Ion:114 Resp: 455166  
Ion Ratio Lower Upper  
114 100  
63 21.4 0.0 40.8  
88 16.8 0.0 32.8



#35  
Dibromofluoromethane  
Concen: 50.48 ug/l  
RT: 5.464 min Scan# 718  
Delta R.T. 0.006 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

Tgt Ion:113 Resp: 146994  
Ion Ratio Lower Upper  
113 100  
111 101.8 81.9 122.9  
192 20.2 16.7 25.1

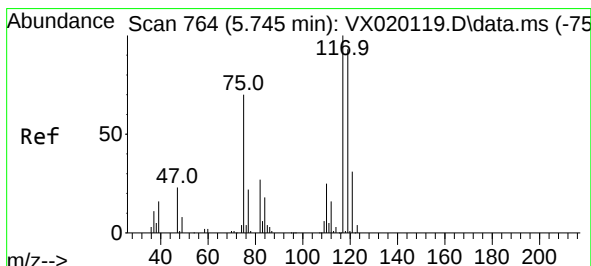
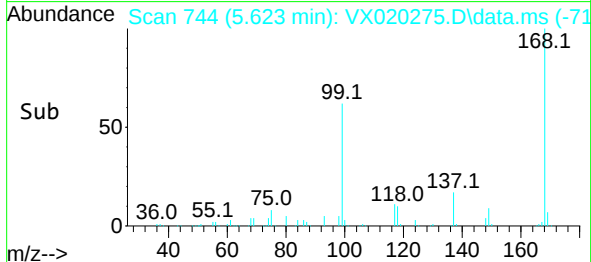
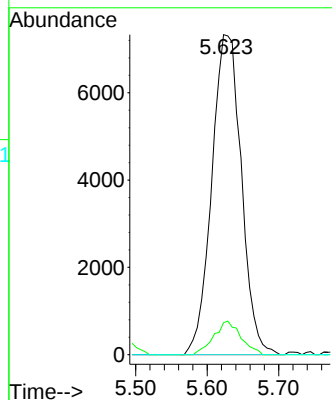
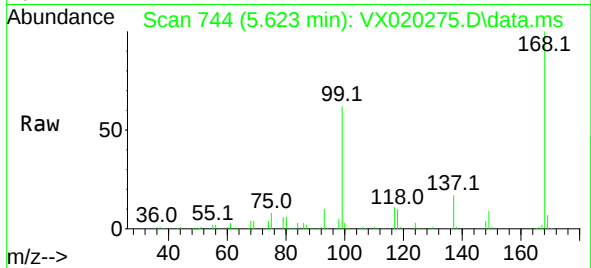




#36  
1,1-Dichloropropene  
Concen: 4.68 ug/l  
RT: 5.623 min Scan# 744  
Delta R.T. -0.140 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

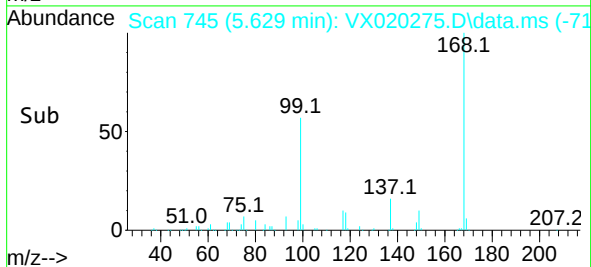
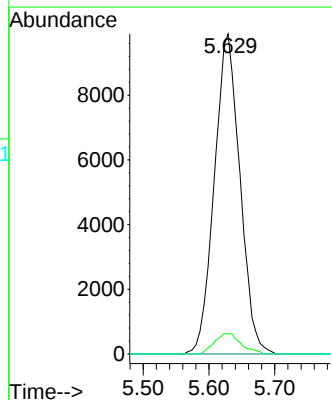
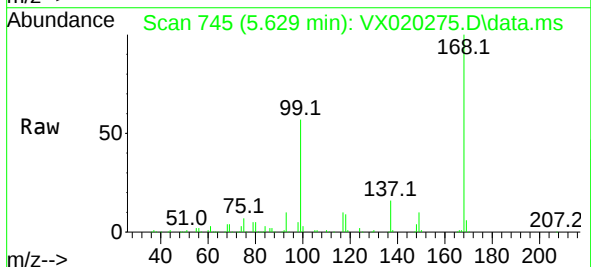
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#06

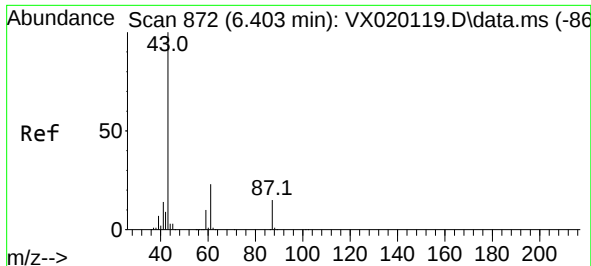
Tgt Ion: 75 Resp: 21068  
Ion Ratio Lower Upper  
75 100  
110 9.6 18.1 54.4#  
77 0.0 25.3 37.9#



#38  
Carbon Tetrachloride  
Concen: 6.26 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. -0.116 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

Tgt Ion: 117 Resp: 26786  
Ion Ratio Lower Upper  
117 100  
119 6.3 76.2 114.2#  
121 0.0 24.8 37.2#

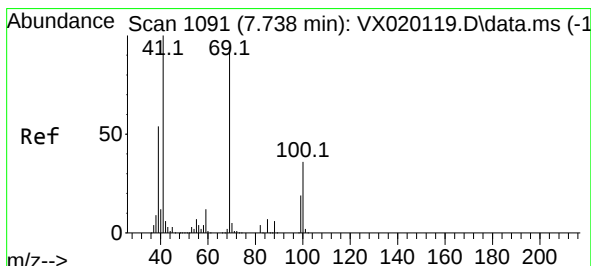
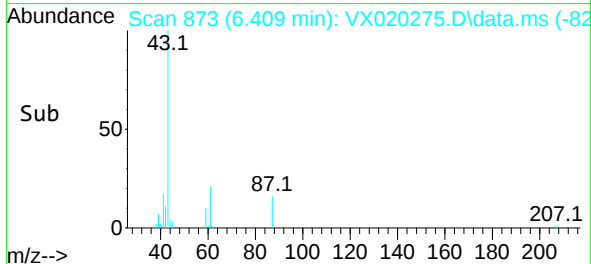
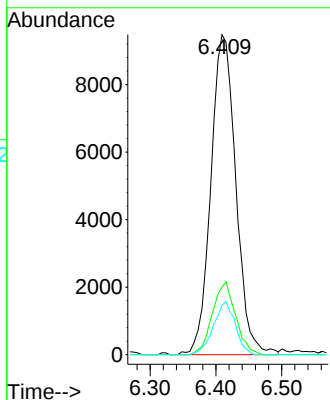
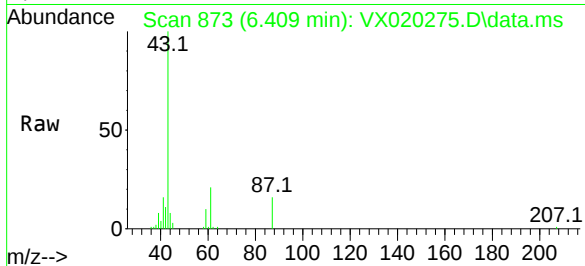




#43  
Isopropyl Acetate  
Concen: 3.40 ug/l  
RT: 6.409 min Scan# 873  
Delta R.T. 0.006 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

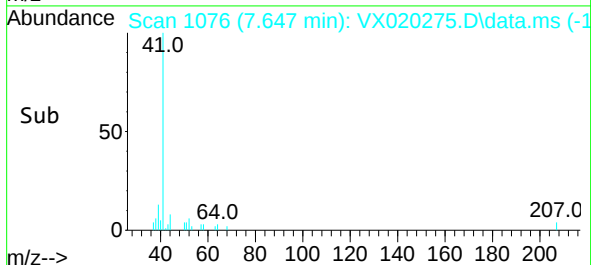
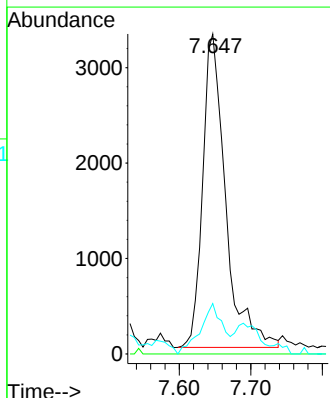
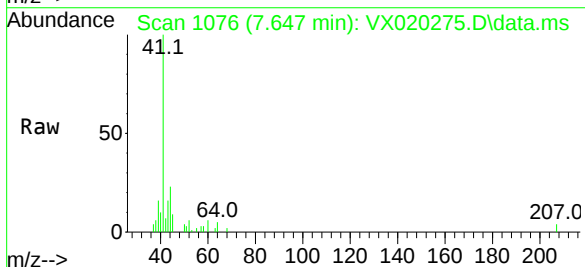
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#06

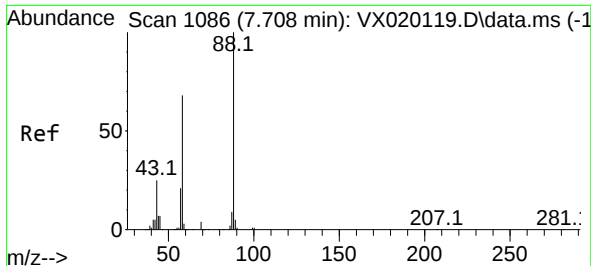
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 25093 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 21.1  | 18.2  | 27.4  |
| 87       | 14.5  | 12.5  | 18.7  |



#48  
Methyl methacrylate  
Concen: 2.02 ug/l  
RT: 7.647 min Scan# 1076  
Delta R.T. -0.091 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 7313   |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 69       | 0.0   | 76.0  | 114.0# |
| 39       | 0.0   | 44.6  | 67.0#  |

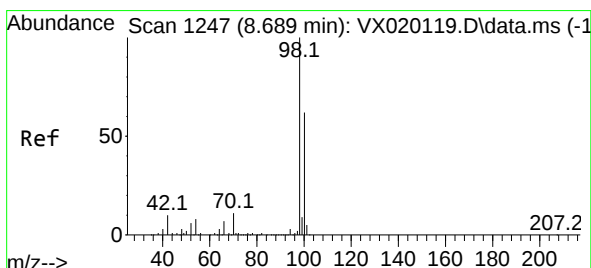
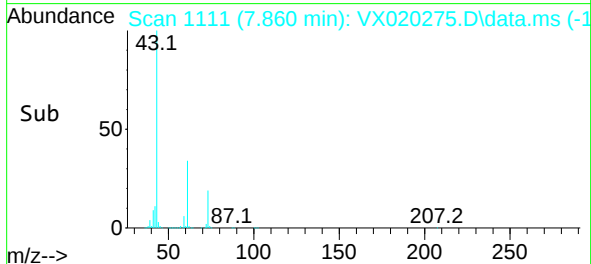
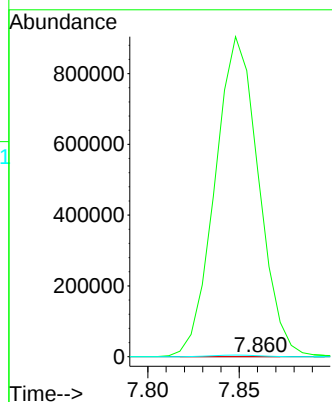
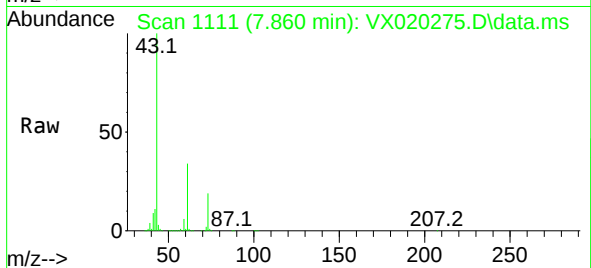




#49  
1,4-Dioxane  
Concen: 3.47 ug/l  
RT: 7.860 min Scan# 1111  
Delta R.T. 0.152 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

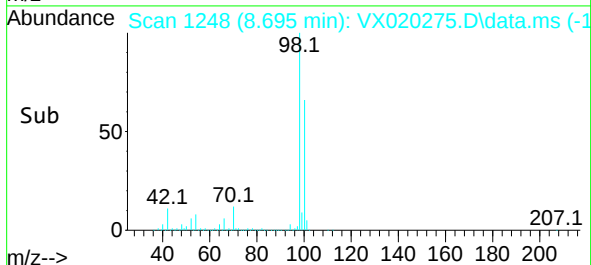
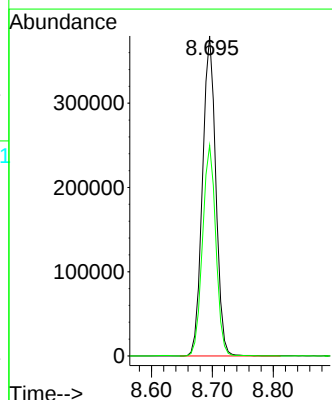
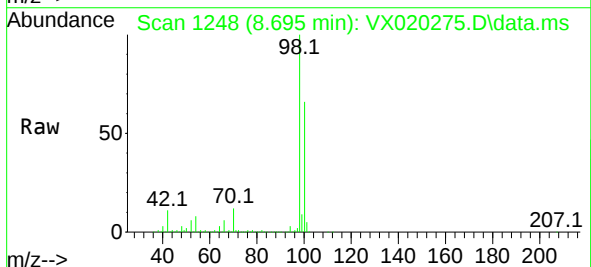
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#06

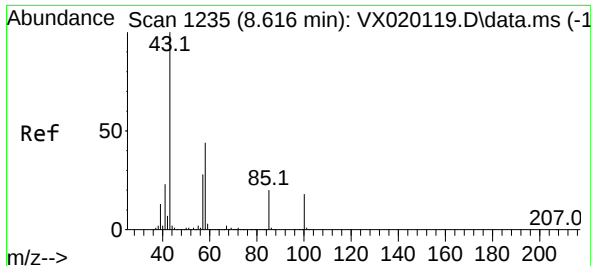
Tgt Ion: 88 Resp: 294  
Ion Ratio Lower Upper  
88 100  
43 514837.1 23.2 34.8#  
58 2801.0 55.0 82.4#



#50  
Toluene-d8  
Concen: 51.45 ug/l  
RT: 8.695 min Scan# 1248  
Delta R.T. 0.006 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

Tgt Ion: 98 Resp: 576658  
Ion Ratio Lower Upper  
98 100  
100 65.8 51.9 77.9

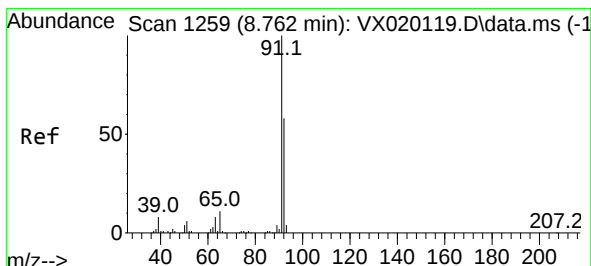
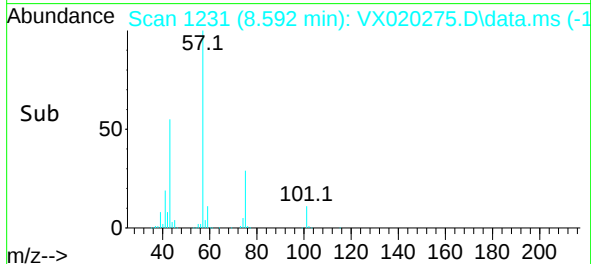
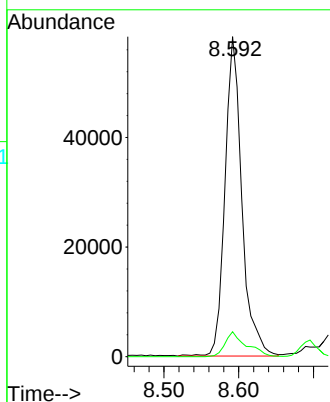
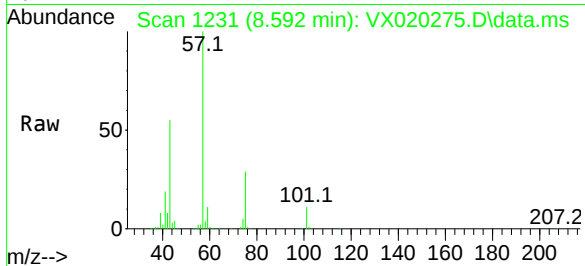




#51  
4-Methyl-2-Pentanone  
Concen: 20.00 ug/l  
RT: 8.592 min Scan# 1231  
Delta R.T. -0.024 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

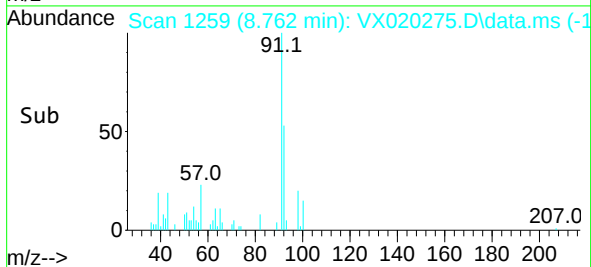
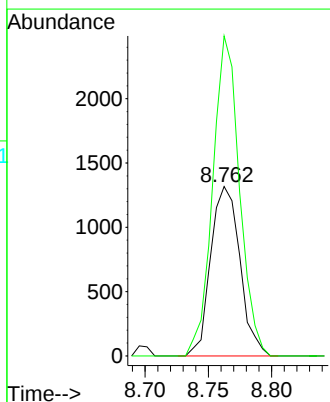
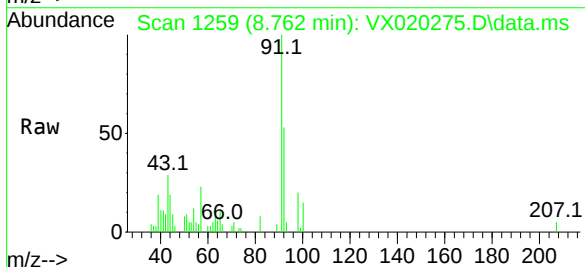
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#06

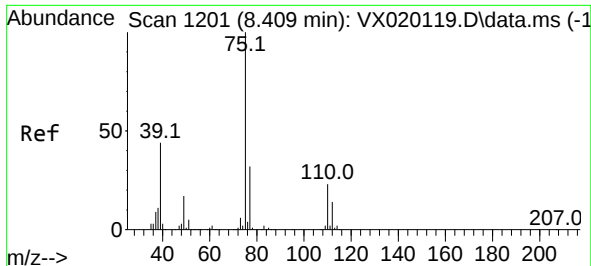
Tgt Ion: 43 Resp: 91379  
Ion Ratio Lower Upper  
43 100  
58 9.9 35.4 53.0#



#52  
Toluene  
Concen: 0.25 ug/l  
RT: 8.762 min Scan# 1259  
Delta R.T. 0.000 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

Tgt Ion: 92 Resp: 2113  
Ion Ratio Lower Upper  
92 100  
91 173.2 137.1 205.7

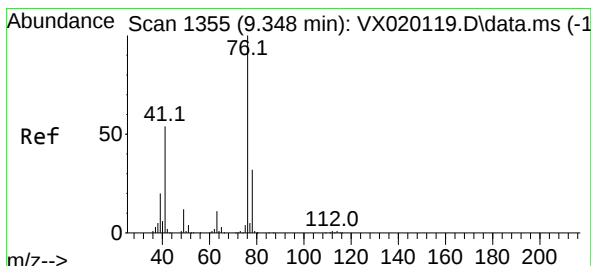
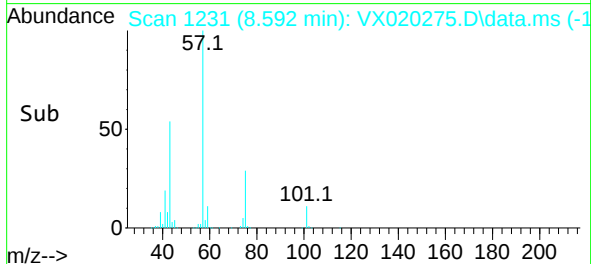
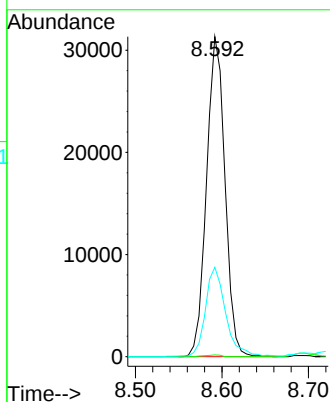
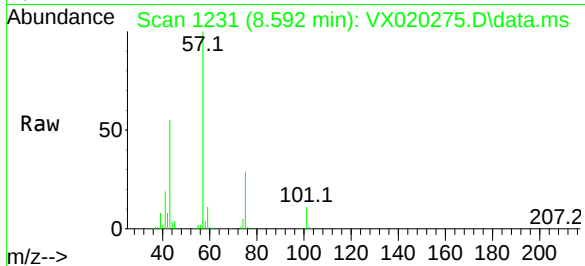




#54  
cis-1,3-Dichloropropene  
Concen: 8.31 ug/l  
RT: 8.592 min Scan# 1231  
Delta R.T. 0.183 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

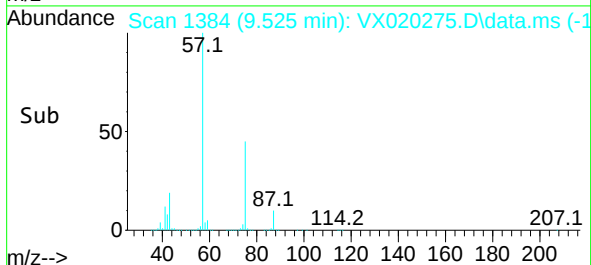
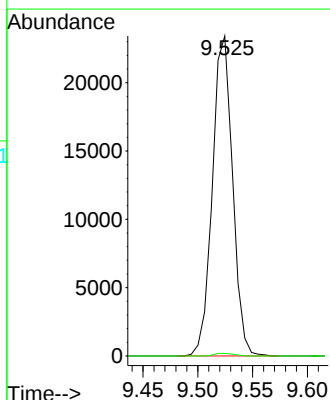
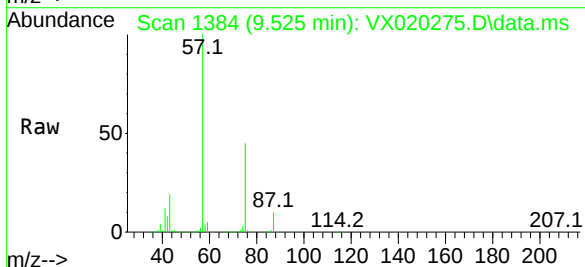
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#06

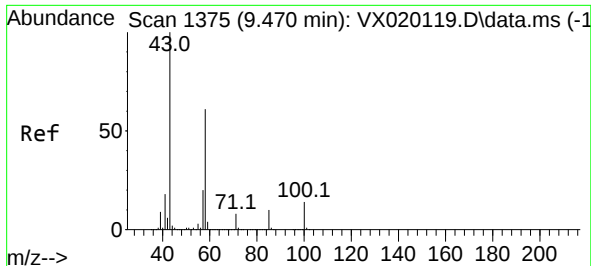
Tgt Ion: 75 Resp: 46321  
Ion Ratio Lower Upper  
75 100  
77 0.5 25.7 38.5#  
39 27.8 35.1 52.7#



#57  
1,3-Dichloropropane  
Concen: 5.01 ug/l  
RT: 9.525 min Scan# 1384  
Delta R.T. 0.177 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

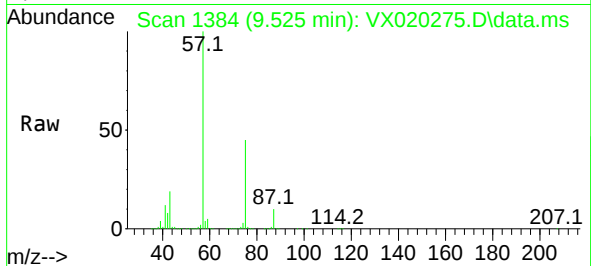
Tgt Ion: 76 Resp: 30047  
Ion Ratio Lower Upper  
76 100  
78 0.8 26.2 39.2#



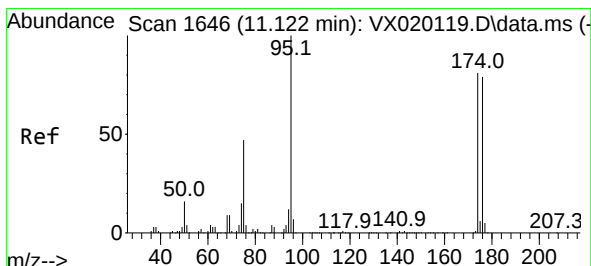
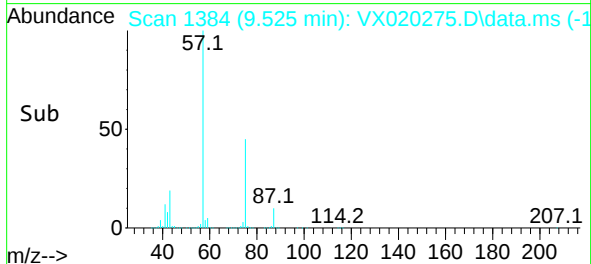
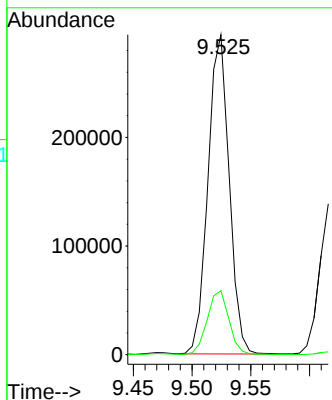


#59  
2-Hexanone  
Concen: 105.69 ug/l  
RT: 9.525 min Scan# 1384  
Delta R.T. 0.055 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#06

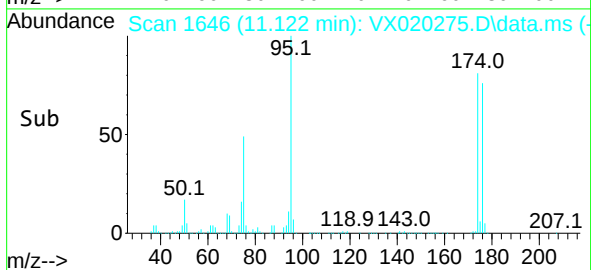
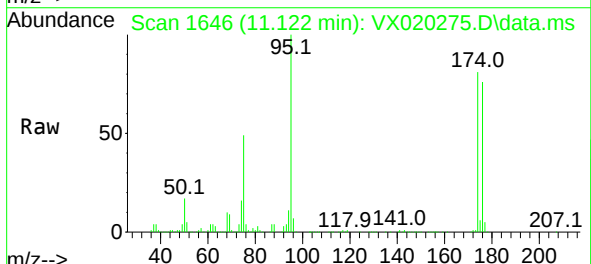
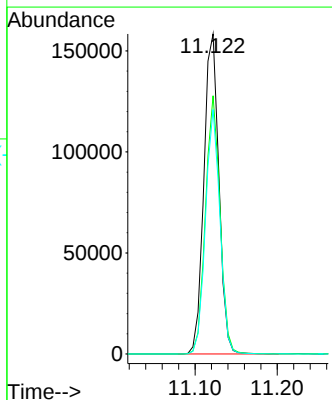


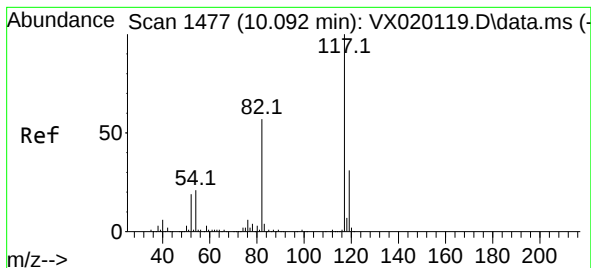
Tgt Ion: 43 Resp: 368003  
Ion Ratio Lower Upper  
43 100  
58 20.5 30.9 92.8#



#62  
4-Bromofluorobenzene  
Concen: 46.81 ug/l  
RT: 11.122 min Scan# 1646  
Delta R.T. -0.000 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

Tgt Ion: 95 Resp: 200781  
Ion Ratio Lower Upper  
95 100  
174 78.4 0.0 154.6  
176 73.4 0.0 155.8

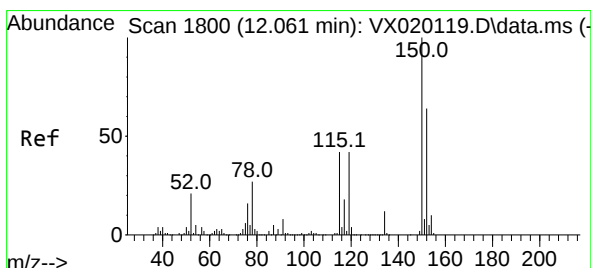
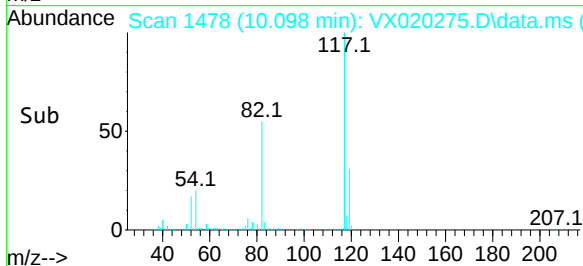
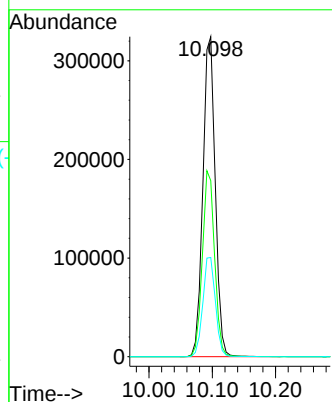
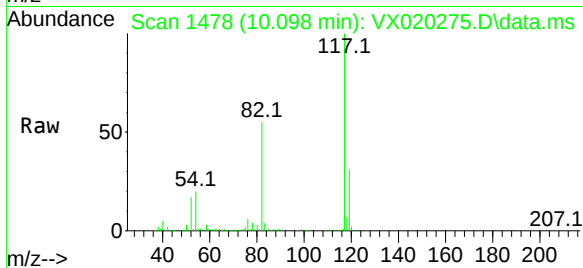




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.098 min Scan# 1478  
Delta R.T. 0.006 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

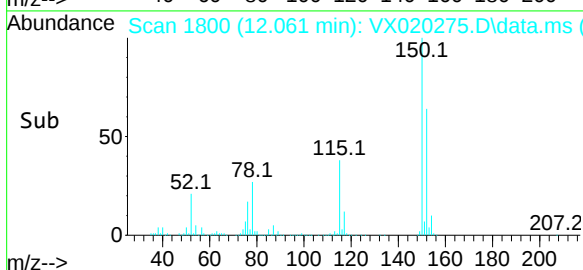
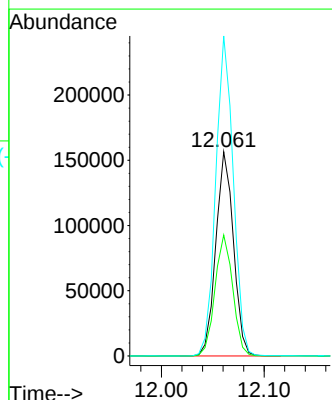
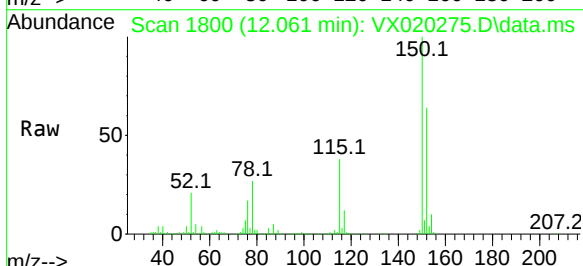
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#06

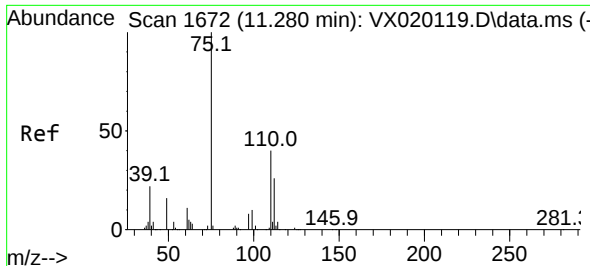
Tgt Ion:117 Resp: 441110  
Ion Ratio Lower Upper  
117 100  
82 55.0 47.4 71.2  
119 31.0 26.6 39.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.061 min Scan# 1800  
Delta R.T. -0.000 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

Tgt Ion:152 Resp: 186677  
Ion Ratio Lower Upper  
152 100  
115 59.6 41.1 123.3  
150 155.9 0.0 349.0

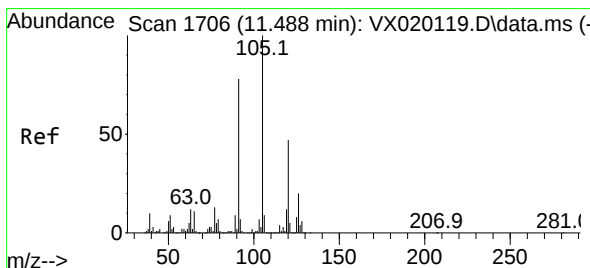
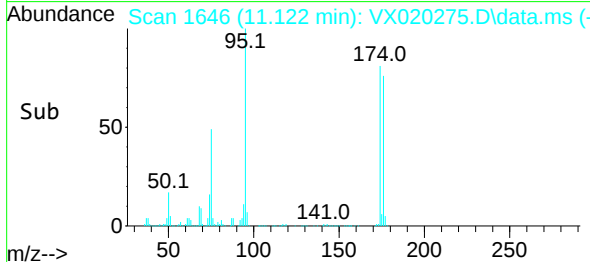
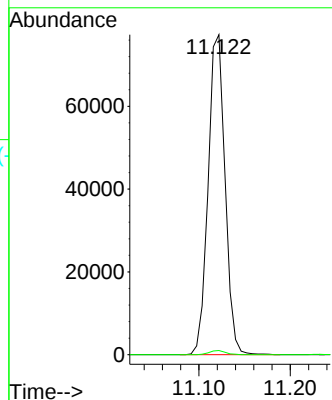
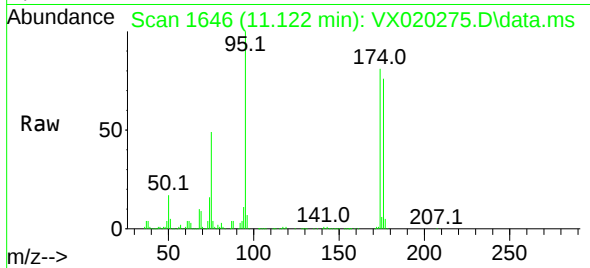




#76  
1,2,3-Trichloropropane  
Concen: 21.56 ug/l  
RT: 11.122 min Scan# 1646  
Delta R.T. -0.158 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

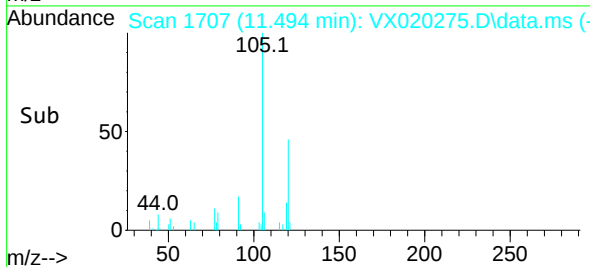
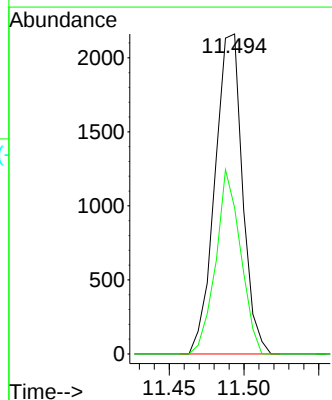
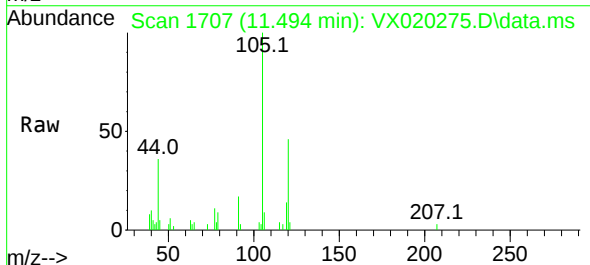
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#06

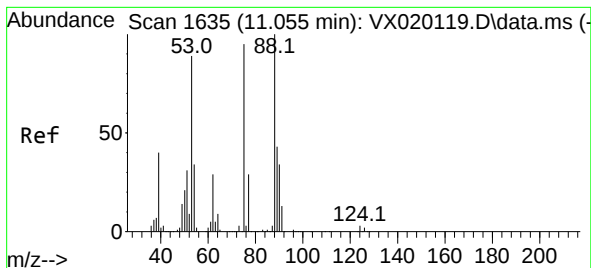
Tgt Ion: 75 Resp: 99136  
Ion Ratio Lower Upper  
75 100  
77 1.3 19.1 57.5#



#80  
1,3,5-Trimethylbenzene  
Concen: 0.24 ug/l  
RT: 11.494 min Scan# 1707  
Delta R.T. 0.006 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

Tgt Ion: 105 Resp: 2773  
Ion Ratio Lower Upper  
105 100  
120 51.6 23.8 71.5

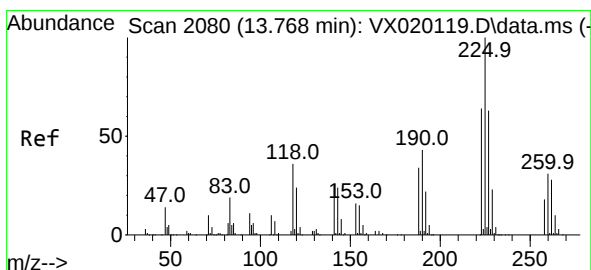
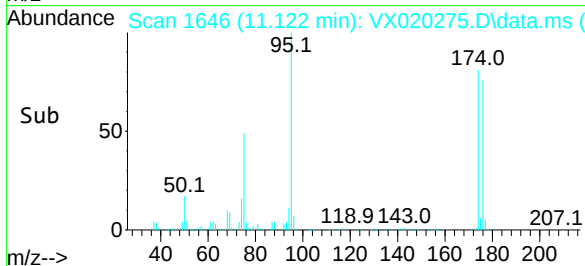
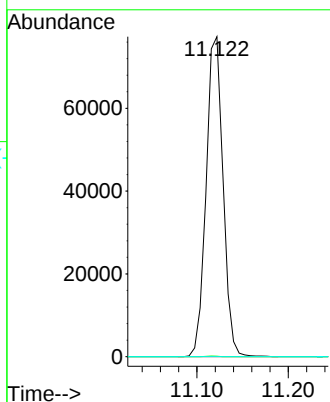
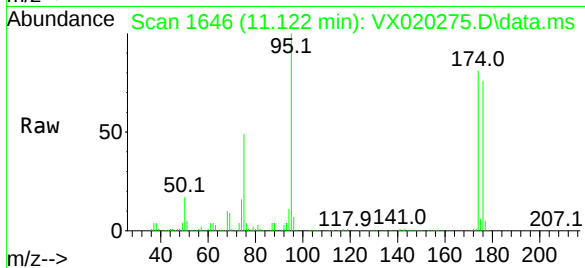




#81  
trans-1,4-Dichloro-2-butene  
Concen: 63.96 ug/l  
RT: 11.122 min Scan# 1646  
Delta R.T. 0.067 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#06

Tgt Ion: 75 Resp: 99136  
Ion Ratio Lower Upper  
75 100  
53 0.1 74.5 111.7#  
89 0.0 37.9 56.9#



#94  
Hexachlorobutadiene  
Concen: 2.67 ug/l  
RT: 13.768 min Scan# 2080  
Delta R.T. -0.000 min  
Lab File: VX020275.D  
Acq: 22 Dec 2020 01:46

Tgt Ion: 225 Resp: 46  
Ion Ratio Lower Upper  
225 100  
223 0.0 31.1 93.2#  
227 0.0 31.6 95.0#

