

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122120\  
 Data File : VX020284.D  
 Acq On : 22 Dec 2020 05:16  
 Operator : JC/MD  
 Sample : PB133709ZHE#15  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 51 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB133709ZHE#15

Quant Time: Dec 22 06:57:17 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

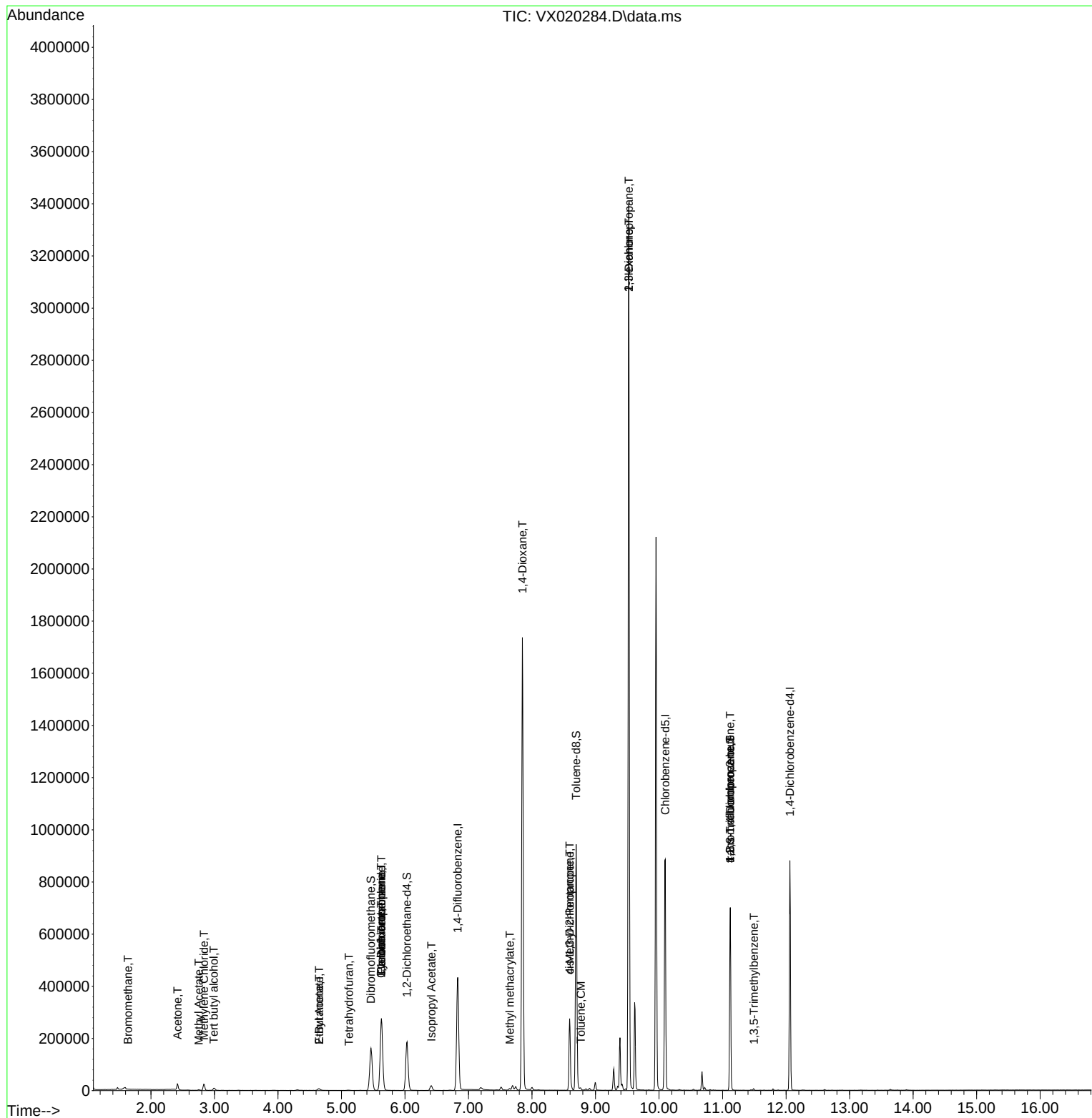
| Compound                      | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                         |                |      |                    |        |        |          |
| Internal Standards            |                |      |                    |        |        |          |
| 1) Pentafluorobenzene         | 5.629          | 168  | 258766             | 50.00  | ug/l   | 0.01     |
| 34) 1,4-Difluorobenzene       | 6.830          | 114  | 437651             | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.098         | 117  | 420411             | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.061         | 152  | 175571             | 50.00  | ug/l   | 0.00     |
|                               |                |      |                    |        |        |          |
| System Monitoring Compounds   |                |      |                    |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 6.031          | 65   | 175922             | 50.72  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 101.44% |        |        |          |
| 35) Dibromofluoromethane      | 5.464          | 113  | 140903             | 50.33  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 100.66% |        |        |          |
| 50) Toluene-d8                | 8.695          | 98   | 555989             | 51.59  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 103.18% |        |        |          |
| 62) 4-Bromofluorobenzene      | 11.122         | 95   | 189815             | 46.02  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 92.04%  |        |        |          |
|                               |                |      |                    |        |        |          |
| Target Compounds              |                |      |                    |        |        | Qvalue   |
| 5) Bromomethane               | 1.636          | 94   | 346                | 0.30   | ug/l   | 97       |
| 11) Tert butyl alcohol        | 2.989          | 59   | 5550               | 7.15   | ug/l # | 73       |
| 16) Acetone                   | 2.416          | 43   | 22008              | 13.91  | ug/l   | 98       |
| 18) Methyl Acetate            | 2.751          | 43   | 2915               | 0.83   | ug/l   | 95       |
| 20) Methylene Chloride        | 2.837          | 84   | 11709              | 3.28   | ug/l   | 94       |
| 25) 2-Butanone                | 4.647          | 43   | 9319               | 4.05   | ug/l   | 94       |
| 29) Tetrahydrofuran           | 5.117          | 42   | 1106               | 0.76   | ug/l # | 87       |
| 31) Cyclohexane               | 5.623          | 56   | 5126               | 1.07   | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.623          | 75   | 20399              | 4.72   | ug/l # | 49       |
| 37) Ethyl Acetate             | 4.647          | 43   | 9319               | 2.07   | ug/l # | 65       |
| 38) Carbon Tetrachloride      | 5.629          | 117  | 25483              | 6.19   | ug/l # | 17       |
| 43) Isopropyl Acetate         | 6.415          | 43   | 23898              | 3.37   | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.653          | 41   | 7752               | 2.23   | ug/l # | 10       |
| 49) 1,4-Dioxane               | 7.848          | 88   | 249                | 3.06   | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.592          | 43   | 87626              | 19.95  | ug/l # | 47       |
| 52) Toluene                   | 8.769          | 92   | 1983               | 0.24   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 8.592          | 75   | 44988              | 8.39   | ug/l # | 63       |
| 57) 1,3-Dichloropropane       | 9.525          | 76   | 29475              | 5.11   | ug/l # | 43       |
| 59) 2-Hexanone                | 9.525          | 43   | 359505             | 107.38 | ug/l # | 46       |
| 76) 1,2,3-Trichloropropane    | 11.122         | 75   | 92703              | 21.44  | ug/l # | 39       |
| 80) 1,3,5-Trimethylbenzene    | 11.494         | 105  | 2797               | 0.26   | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 11.122         | 75   | 92703              | 63.59  | ug/l # | 12       |
| -----                         |                |      |                    |        |        |          |

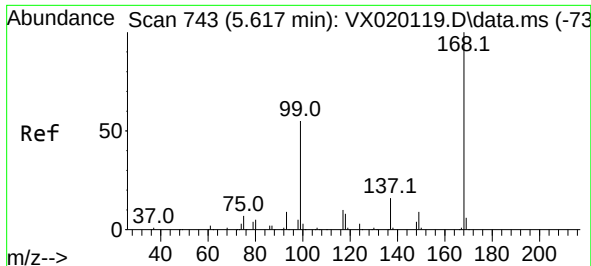
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122120\  
Data File : VX020284.D  
Acq On : 22 Dec 2020 05:16  
Operator : JC/MD  
Sample : PB133709ZHE#15  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 51 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#15

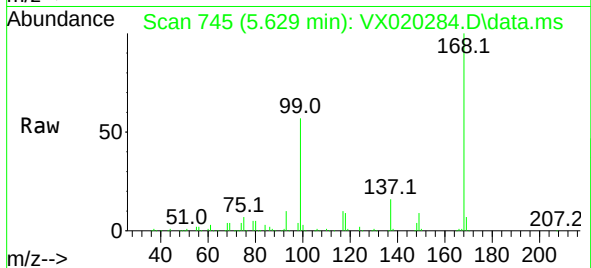
Quant Time: Dec 22 06:57:17 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121820W.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 18 13:09:49 2020  
Response via : Initial Calibration



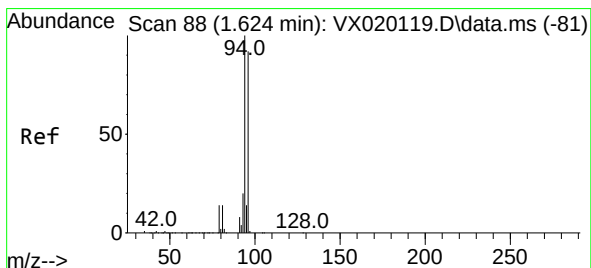
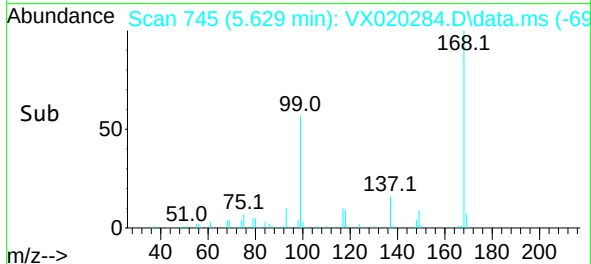
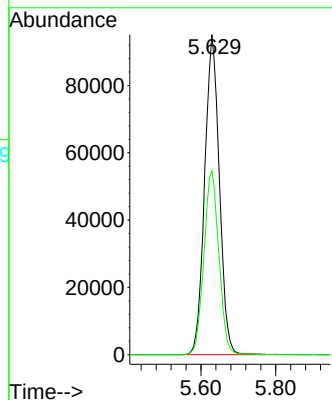


#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. 0.012 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#15

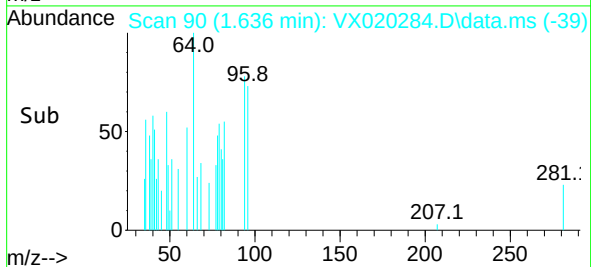
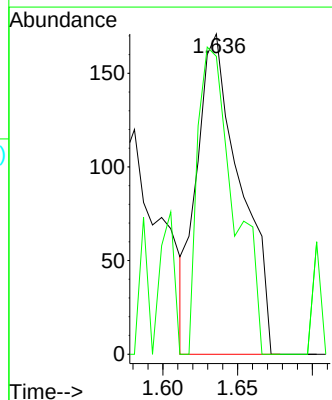
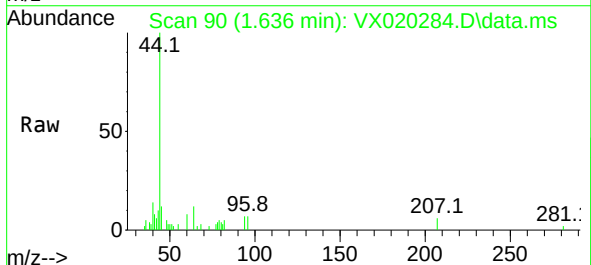


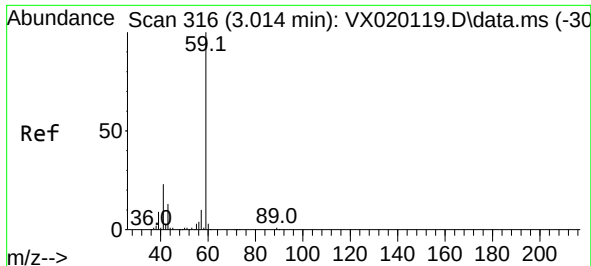
Tgt Ion:168 Resp: 258766  
Ion Ratio Lower Upper  
168 100  
99 57.5 45.8 68.6



#5  
Bromomethane  
Concen: 0.30 ug/l  
RT: 1.636 min Scan# 90  
Delta R.T. 0.012 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

Tgt Ion: 94 Resp: 346  
Ion Ratio Lower Upper  
94 100  
96 93.0 76.4 114.6

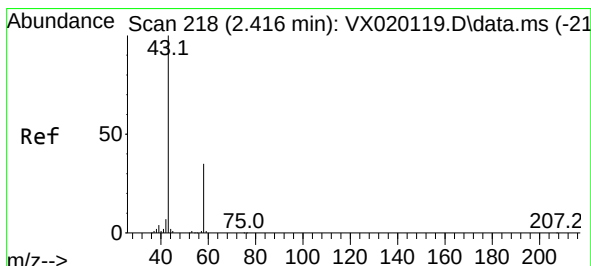
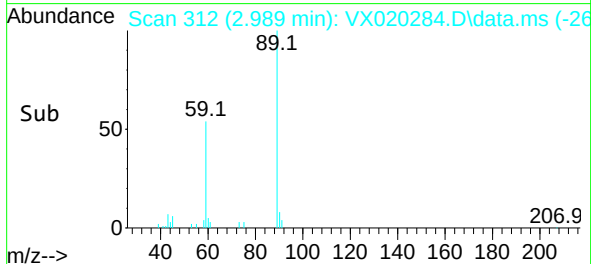
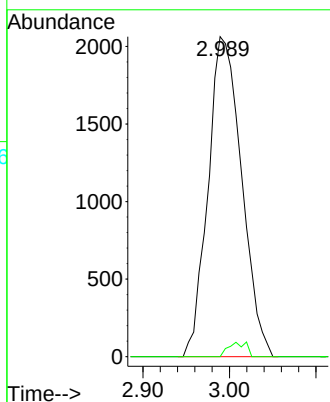
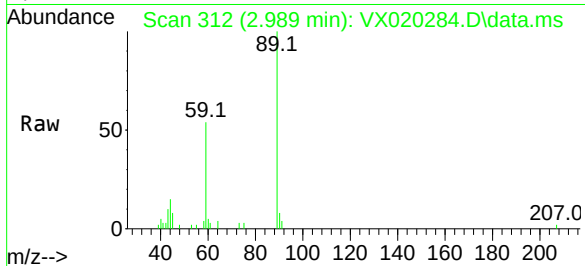




#11  
Tert butyl alcohol  
Concen: 7.15 ug/l  
RT: 2.989 min Scan# 312  
Delta R.T. -0.025 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

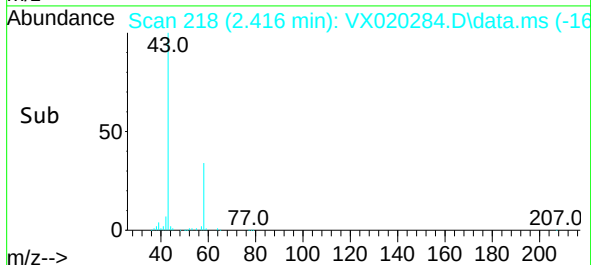
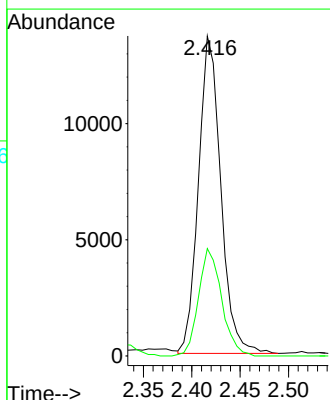
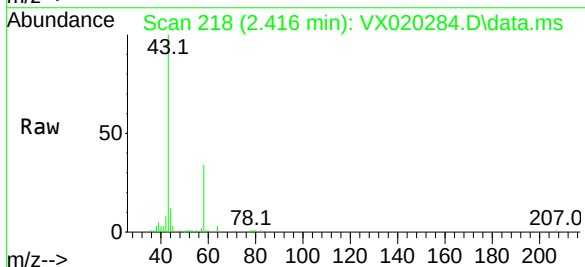
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#15

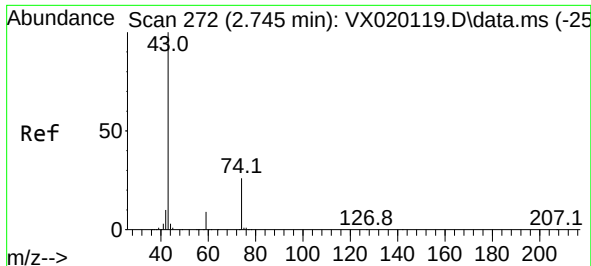
Tgt Ion: 59 Resp: 5550  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#



#16  
Acetone  
Concen: 13.91 ug/l  
RT: 2.416 min Scan# 218  
Delta R.T. 0.000 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

Tgt Ion: 43 Resp: 22008  
Ion Ratio Lower Upper  
43 100  
58 33.8 27.8 41.8

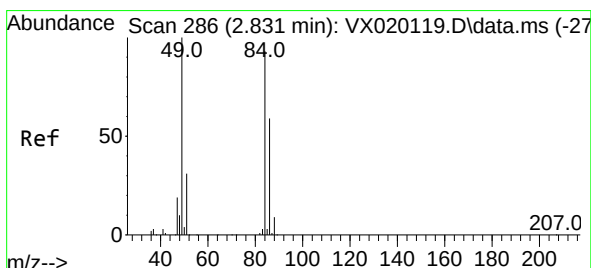
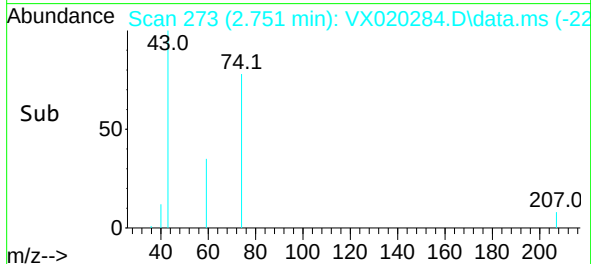
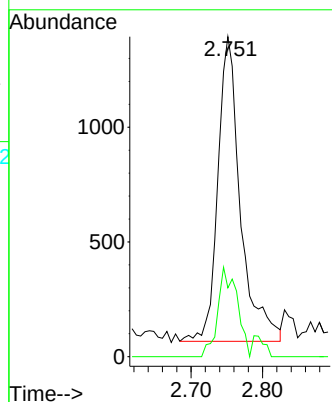
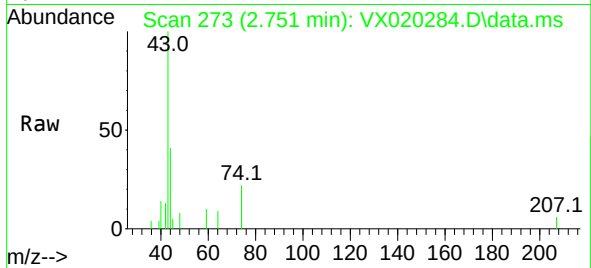




#18  
Methyl Acetate  
Concen: 0.83 ug/l  
RT: 2.751 min Scan# 273  
Delta R.T. 0.006 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

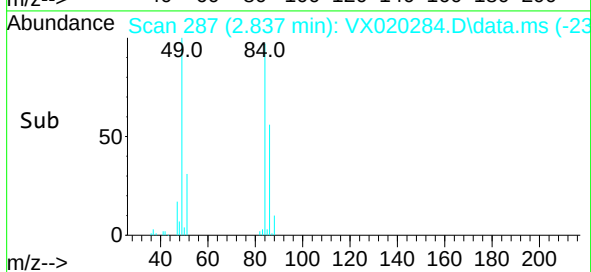
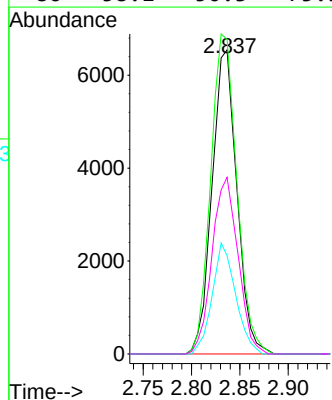
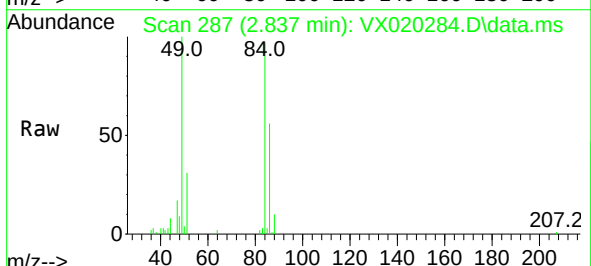
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#15

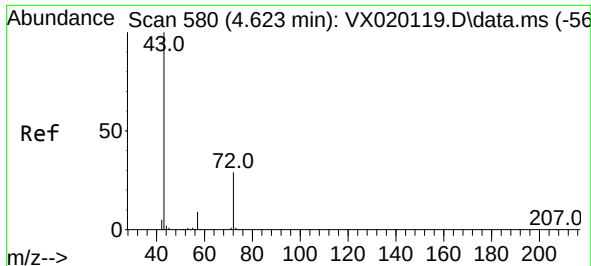
Tgt Ion: 43 Resp: 2915  
Ion Ratio Lower Upper  
43 100  
74 25.0 21.9 32.9



#20  
Methylene Chloride  
Concen: 3.28 ug/l  
RT: 2.837 min Scan# 287  
Delta R.T. 0.006 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

Tgt Ion: 84 Resp: 11709  
Ion Ratio Lower Upper  
84 100  
49 103.4 88.6 132.8  
51 32.2 27.0 40.6  
86 58.1 50.3 75.5

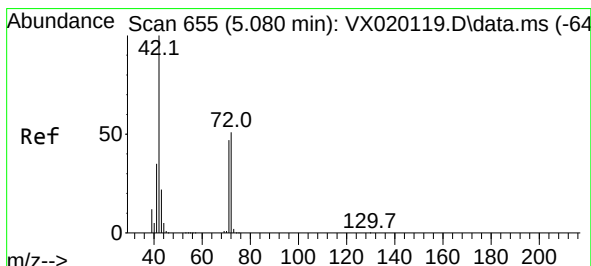
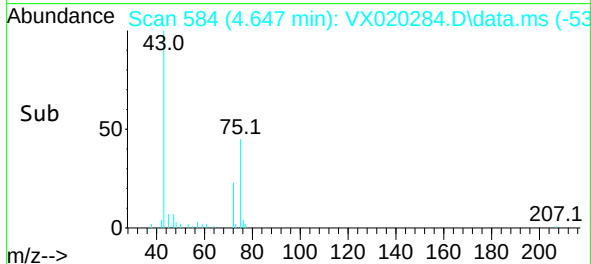
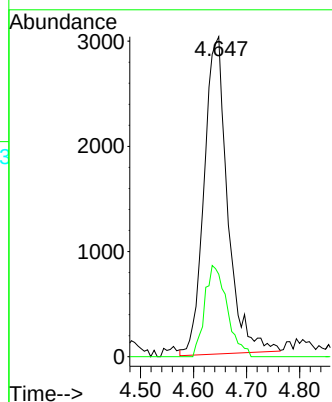
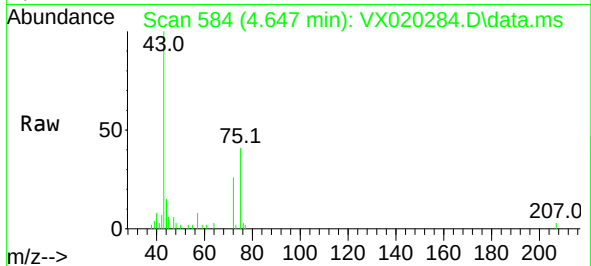




#25  
2-Butanone  
Concen: 4.05 ug/l  
RT: 4.647 min Scan# 584  
Delta R.T. 0.024 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

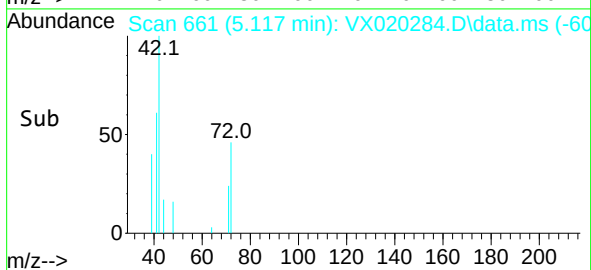
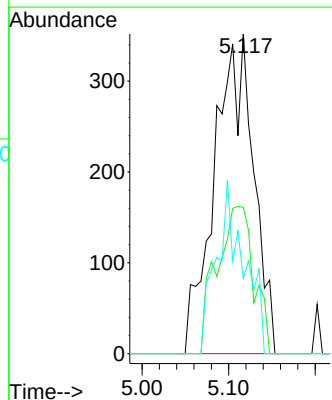
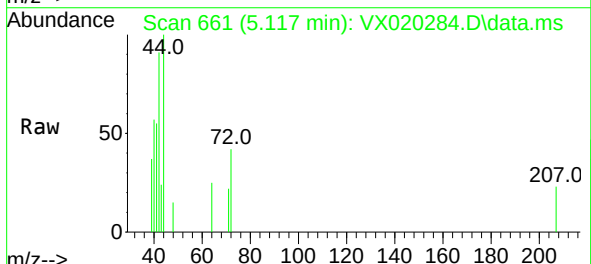
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#15

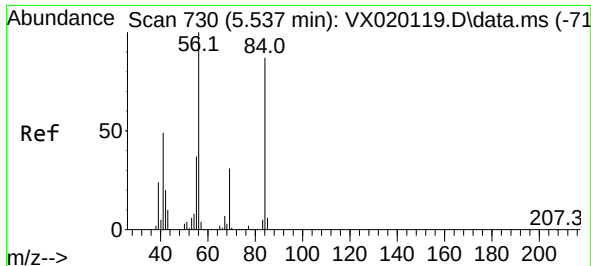
Tgt Ion: 43 Resp: 9319  
Ion Ratio Lower Upper  
43 100  
72 26.3 23.7 35.5



#29  
Tetrahydrofuran  
Concen: 0.76 ug/l  
RT: 5.117 min Scan# 661  
Delta R.T. 0.037 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

Tgt Ion: 42 Resp: 1106  
Ion Ratio Lower Upper  
42 100  
72 43.4 41.7 62.5  
71 38.2 38.4 57.6#

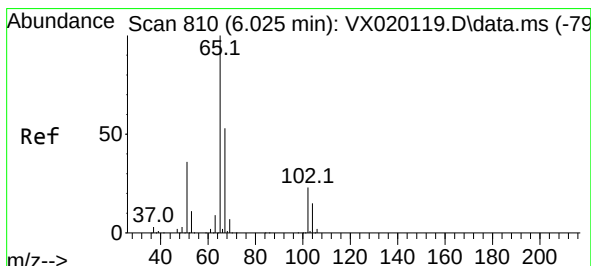
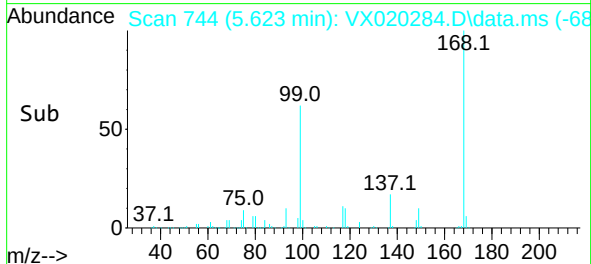
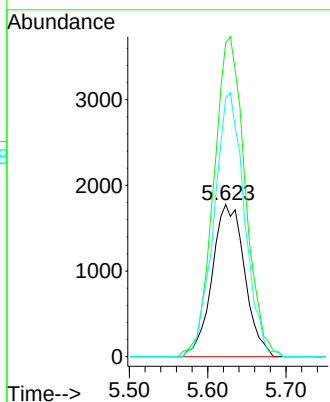
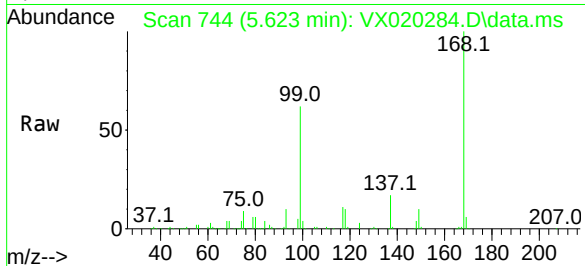




#31  
Cyclohexane  
Concen: 1.07 ug/l  
RT: 5.623 min Scan# 744  
Delta R.T. 0.086 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

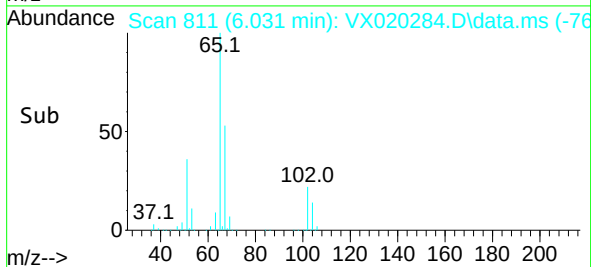
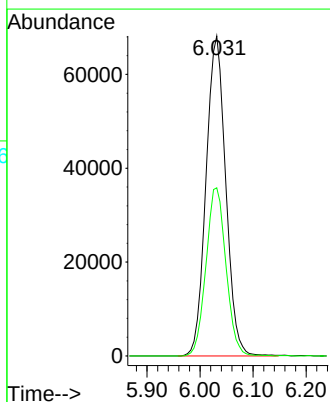
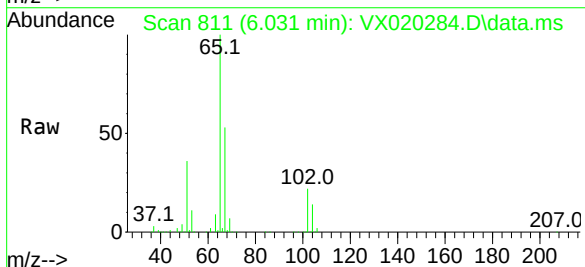
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#15

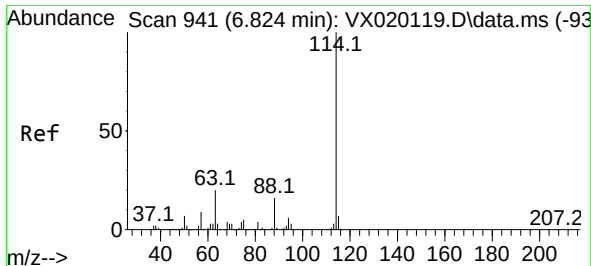
Tgt Ion: 56 Resp: 5126  
Ion Ratio Lower Upper  
56 100  
69 206.2 25.3 37.9#  
84 170.2 71.4 107.0#



#33  
1,2-Dichloroethane-d4  
Concen: 50.72 ug/l  
RT: 6.031 min Scan# 811  
Delta R.T. 0.006 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

Tgt Ion: 65 Resp: 175922  
Ion Ratio Lower Upper  
65 100  
67 53.3 0.0 105.4

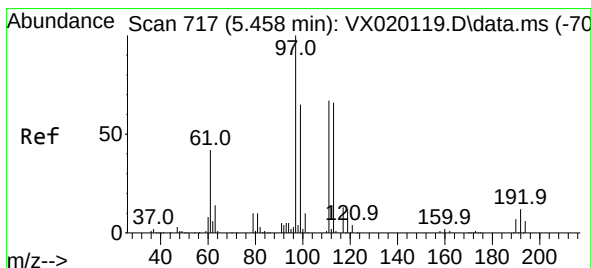
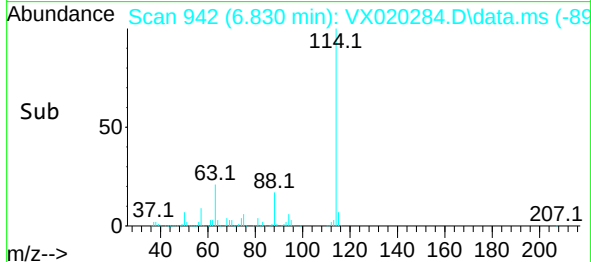
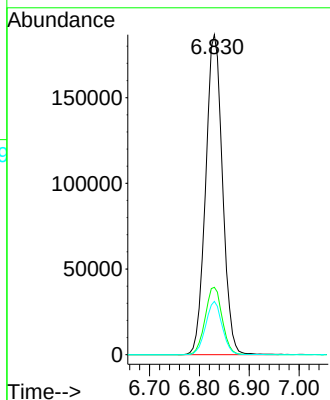
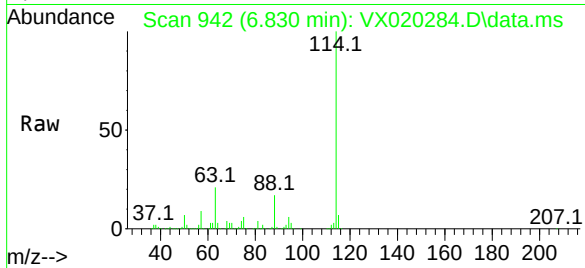




#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 6.830 min Scan# 942  
Delta R.T. 0.006 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

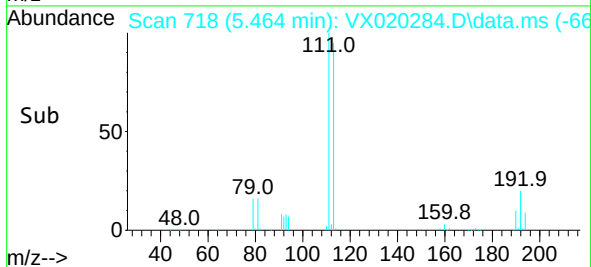
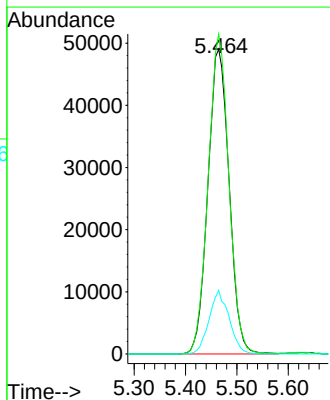
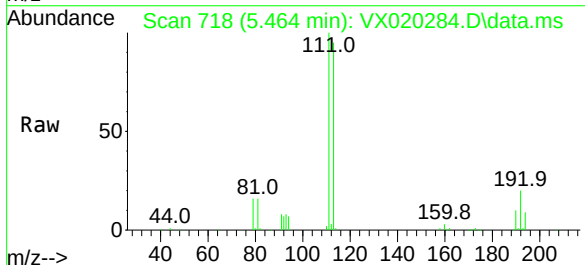
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#15

Tgt Ion:114 Resp: 437651  
Ion Ratio Lower Upper  
114 100  
63 21.1 0.0 40.8  
88 16.7 0.0 32.8

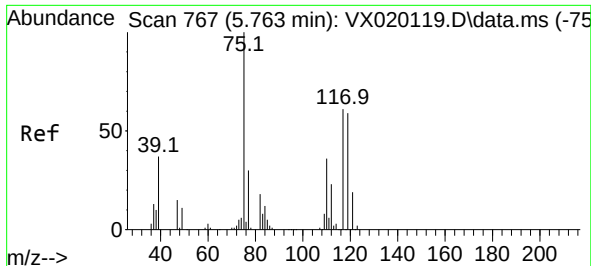


#35  
Dibromofluoromethane  
Concen: 50.33 ug/l  
RT: 5.464 min Scan# 718  
Delta R.T. 0.006 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

Tgt Ion:113 Resp: 140903  
Ion Ratio Lower Upper  
113 100  
111 102.5 81.9 122.9  
192 19.7 16.7 25.1



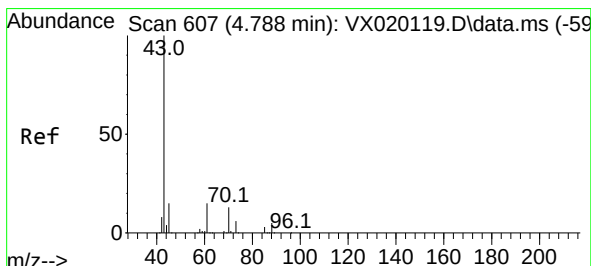
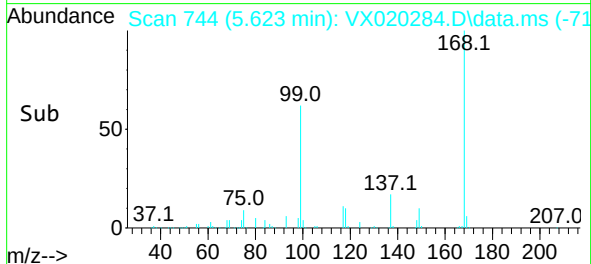
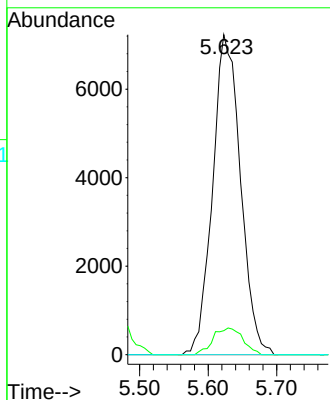
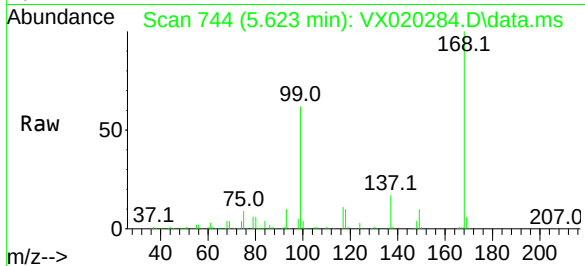




#36  
1,1-Dichloropropene  
Concen: 4.72 ug/l  
RT: 5.623 min Scan# 744  
Delta R.T. -0.140 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

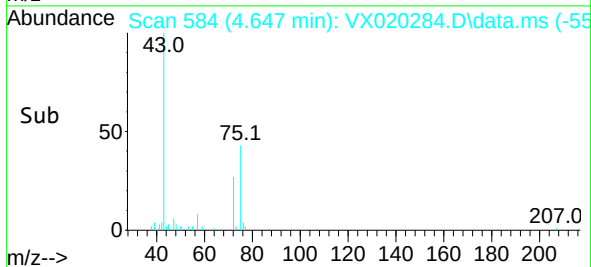
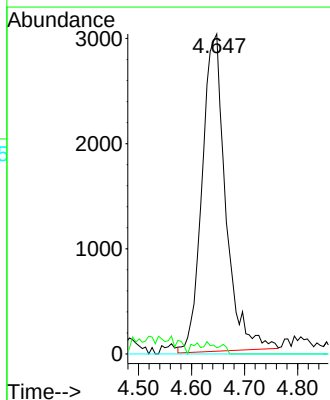
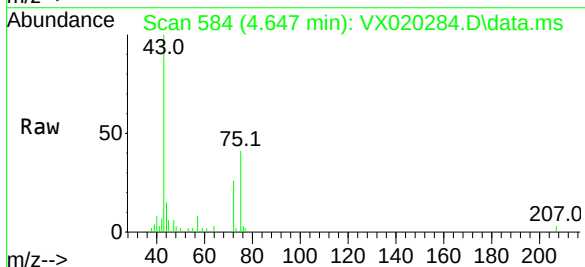
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#15

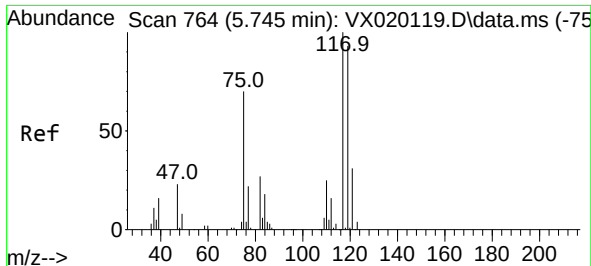
Tgt Ion: 75 Resp: 20399  
Ion Ratio Lower Upper  
75 100  
110 8.9 18.1 54.4#  
77 0.0 25.3 37.9#



#37  
Ethyl Acetate  
Concen: 2.07 ug/l  
RT: 4.647 min Scan# 584  
Delta R.T. -0.141 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

Tgt Ion: 43 Resp: 9319  
Ion Ratio Lower Upper  
43 100  
61 0.6 12.8 19.2#  
70 0.0 10.5 15.7#

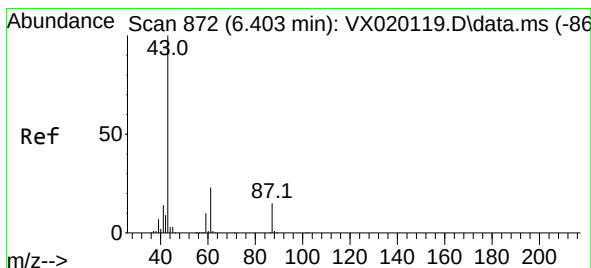
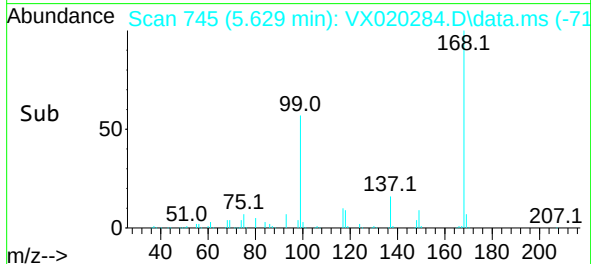
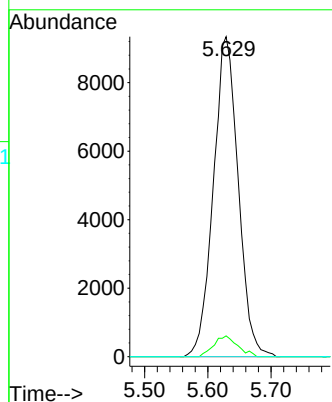
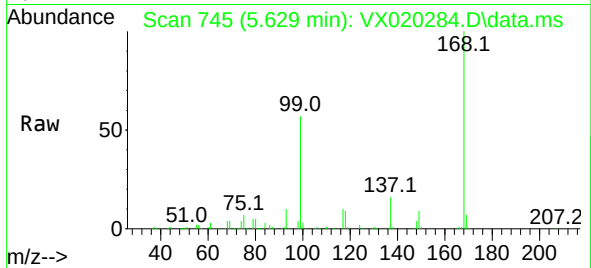




#38  
Carbon Tetrachloride  
Concen: 6.19 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. -0.116 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

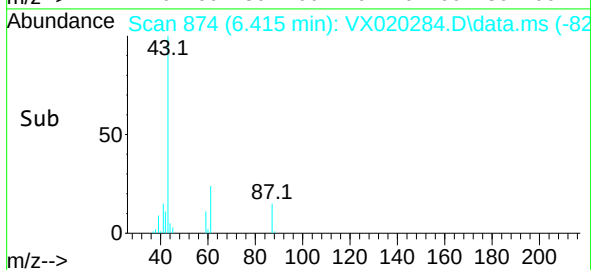
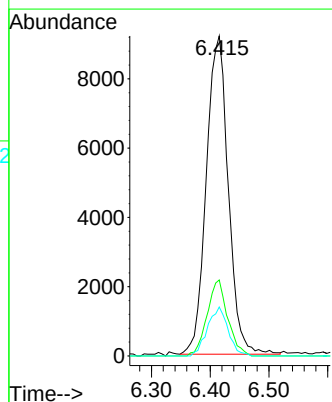
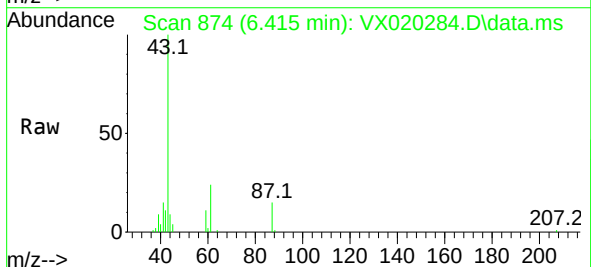
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#15

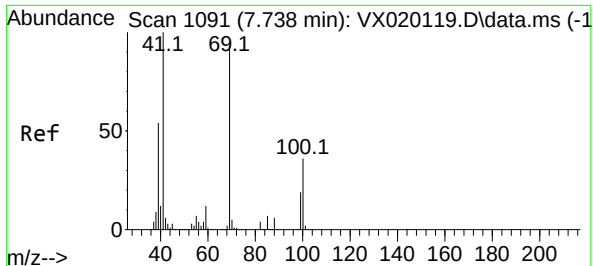
Tgt Ion:117 Resp: 25483  
Ion Ratio Lower Upper  
117 100  
119 6.5 76.2 114.2#  
121 0.0 24.8 37.2#



#43  
Isopropyl Acetate  
Concen: 3.37 ug/l  
RT: 6.415 min Scan# 874  
Delta R.T. 0.012 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

Tgt Ion: 43 Resp: 23898  
Ion Ratio Lower Upper  
43 100  
61 22.3 18.2 27.4  
87 14.4 12.5 18.7

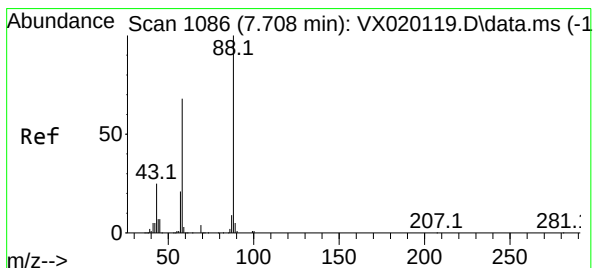
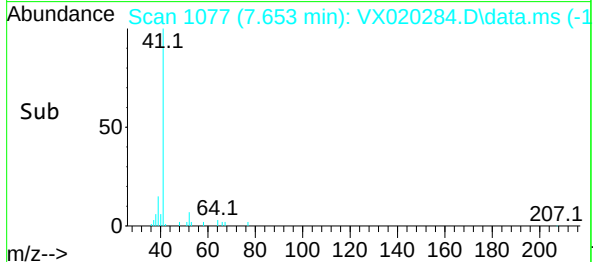
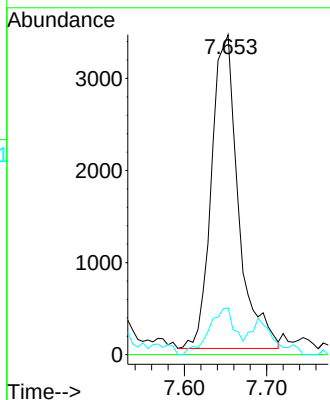
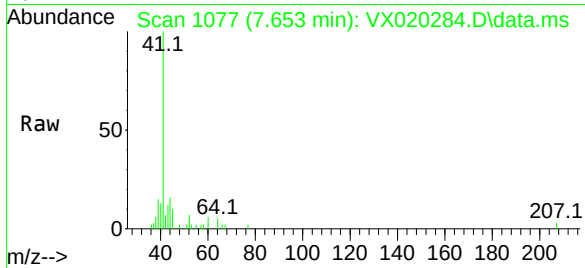




#48  
Methyl methacrylate  
Concen: 2.23 ug/l  
RT: 7.653 min Scan# 1077  
Delta R.T. -0.085 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

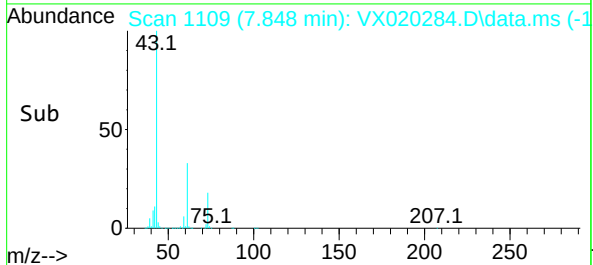
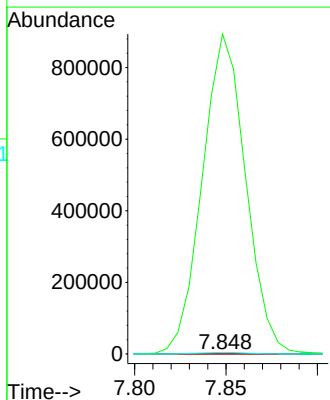
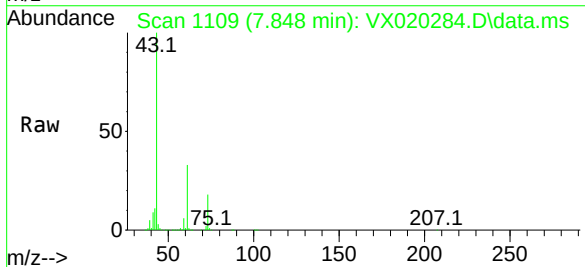
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#15

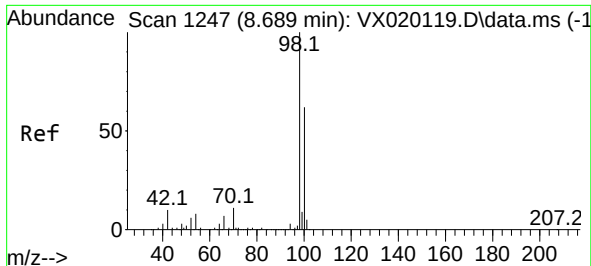
Tgt Ion: 41 Resp: 7752  
Ion Ratio Lower Upper  
41 100  
69 0.0 76.0 114.0#  
39 0.0 44.6 67.0#



#49  
1,4-Dioxane  
Concen: 3.06 ug/l  
RT: 7.848 min Scan# 1109  
Delta R.T. 0.140 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

Tgt Ion: 88 Resp: 249  
Ion Ratio Lower Upper  
88 100  
43 595549.8 23.2 34.8#  
58 3204.4 55.0 82.4#

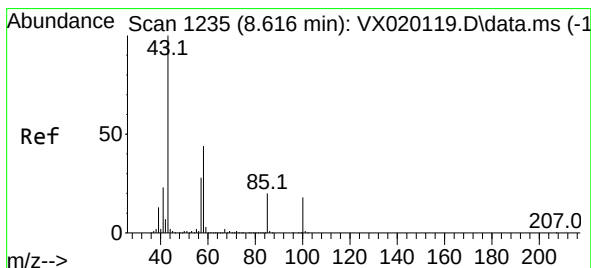
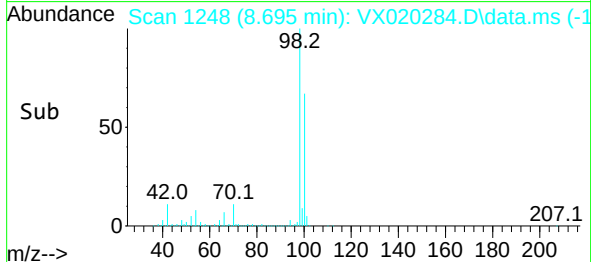
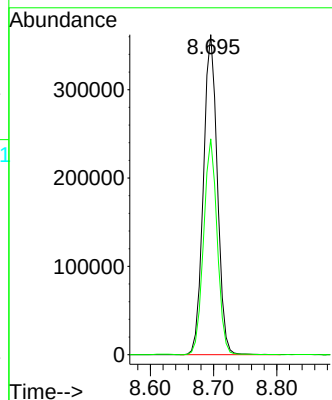
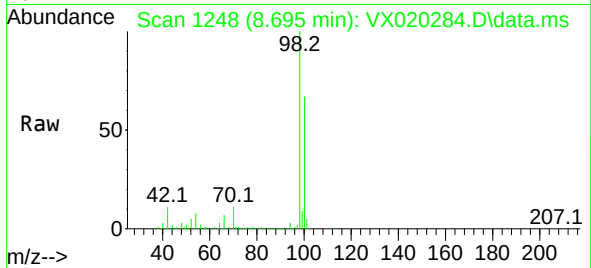




#50  
Toluene-d8  
Concen: 51.59 ug/l  
RT: 8.695 min Scan# 1248  
Delta R.T. 0.006 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

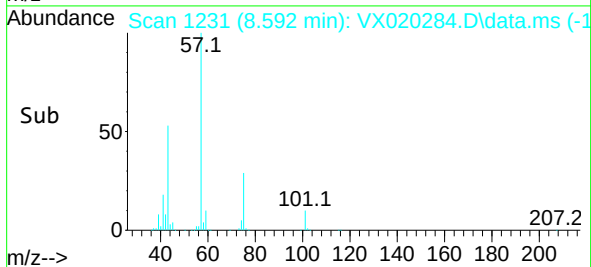
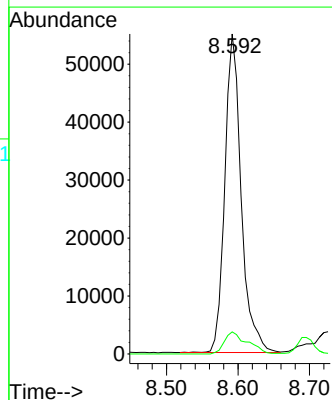
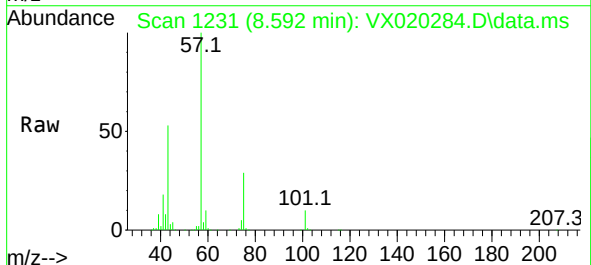
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#15

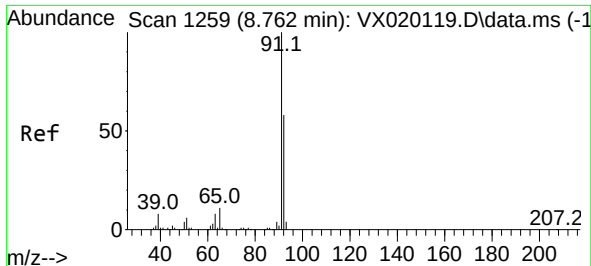
Tgt Ion: 98 Resp: 555989  
Ion Ratio Lower Upper  
98 100  
100 65.8 51.9 77.9



#51  
4-Methyl-2-Pentanone  
Concen: 19.95 ug/l  
RT: 8.592 min Scan# 1231  
Delta R.T. -0.024 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

Tgt Ion: 43 Resp: 87626  
Ion Ratio Lower Upper  
43 100  
58 9.8 35.4 53.0#

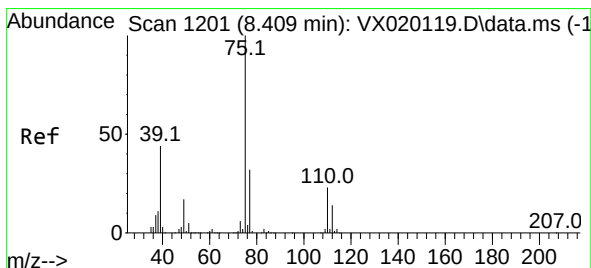
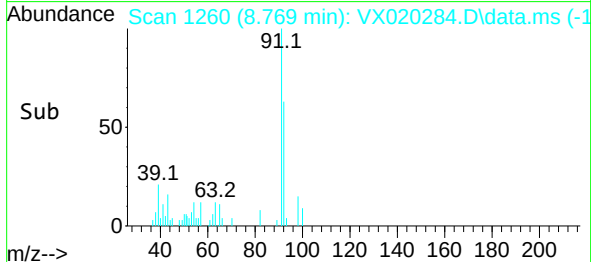
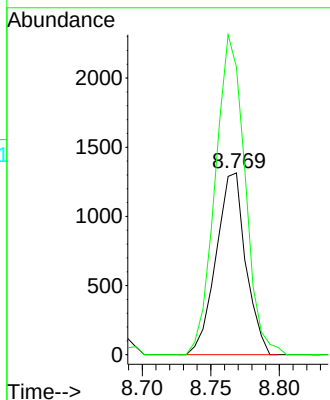
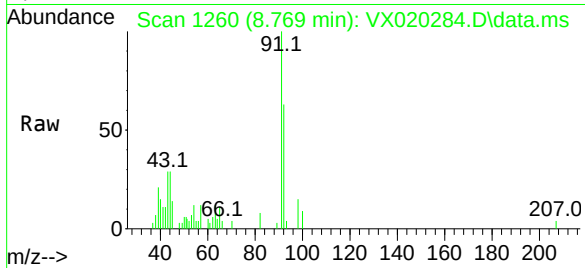




#52  
Toluene  
Concen: 0.24 ug/l  
RT: 8.769 min Scan# 1260  
Delta R.T. 0.007 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

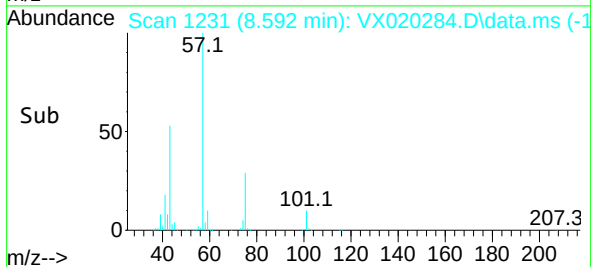
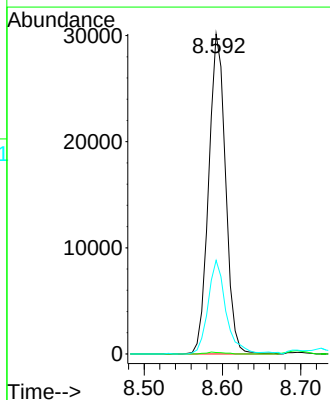
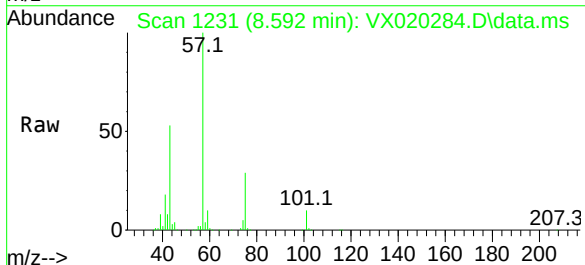
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#15

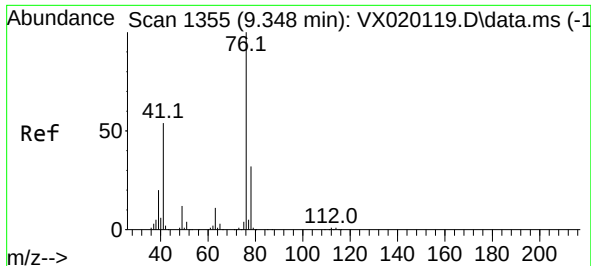
Tgt Ion: 92 Resp: 1983  
Ion Ratio Lower Upper  
92 100  
91 176.0 137.1 205.7



#54  
cis-1,3-Dichloropropene  
Concen: 8.39 ug/l  
RT: 8.592 min Scan# 1231  
Delta R.T. 0.183 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

Tgt Ion: 75 Resp: 44988  
Ion Ratio Lower Upper  
75 100  
77 0.4 25.7 38.5#  
39 29.3 35.1 52.7#

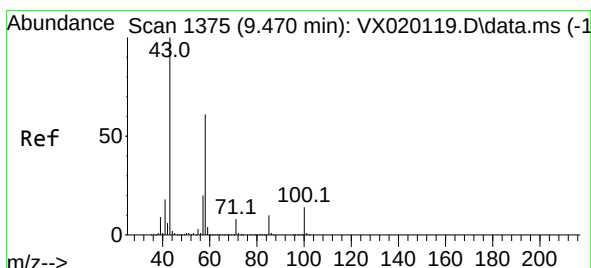
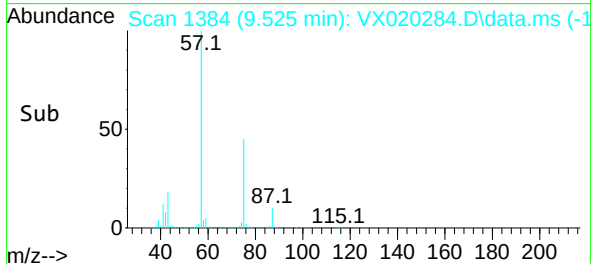
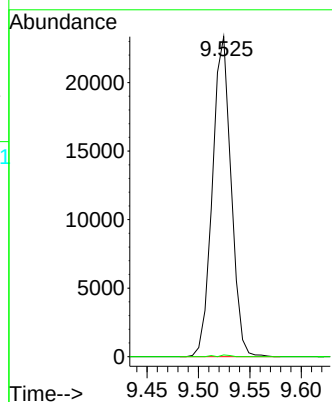
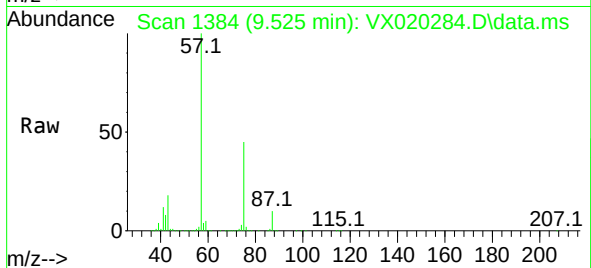




#57  
1,3-Dichloropropane  
Concen: 5.11 ug/l  
RT: 9.525 min Scan# 1384  
Delta R.T. 0.177 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

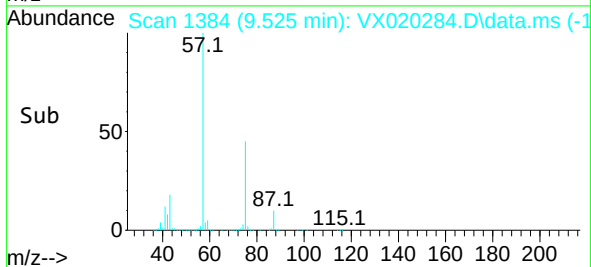
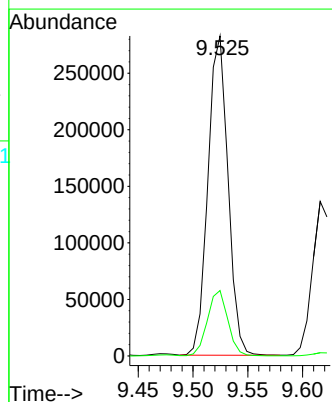
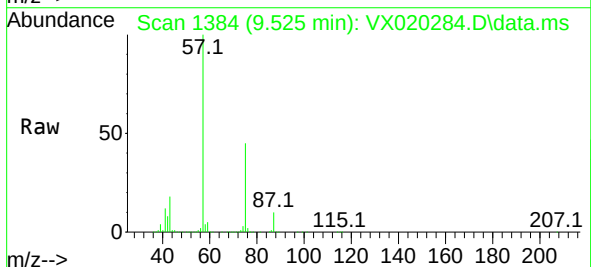
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#15

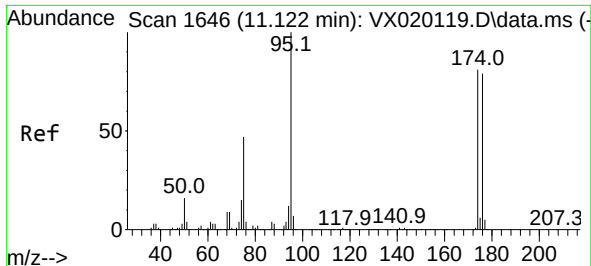
Tgt Ion: 76 Resp: 29475  
Ion Ratio Lower Upper  
76 100  
78 0.4 26.2 39.2#



#59  
2-Hexanone  
Concen: 107.38 ug/l  
RT: 9.525 min Scan# 1384  
Delta R.T. 0.055 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

Tgt Ion: 43 Resp: 359505  
Ion Ratio Lower Upper  
43 100  
58 20.8 30.9 92.8#

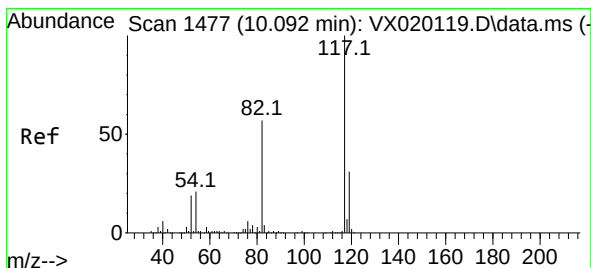
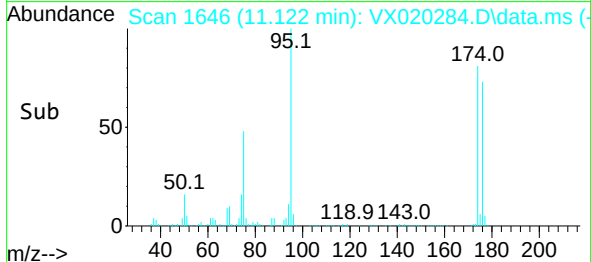
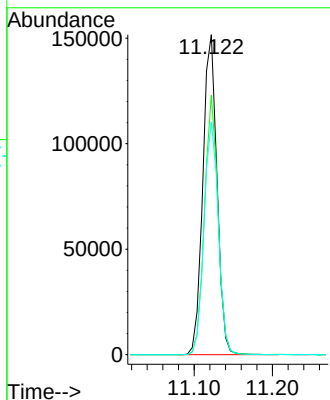
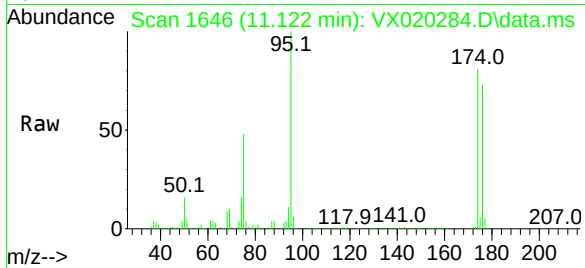




#62  
4-Bromofluorobenzene  
Concen: 46.02 ug/l  
RT: 11.122 min Scan# 1646  
Delta R.T. -0.000 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

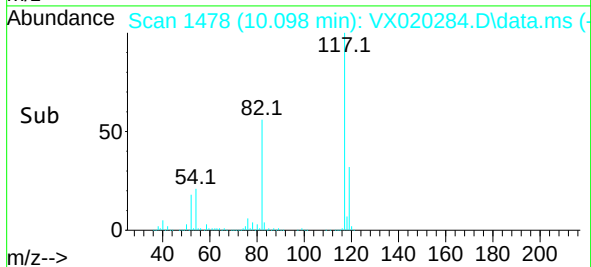
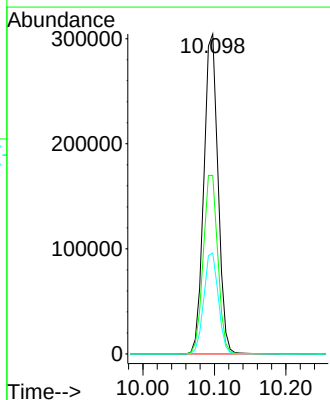
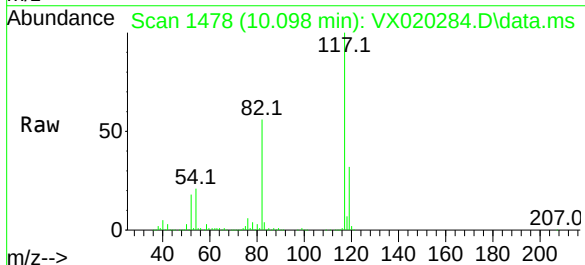
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#15

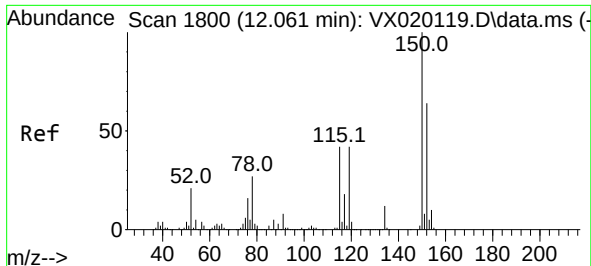
Tgt Ion: 95 Resp: 189815  
Ion Ratio Lower Upper  
95 100  
174 77.6 0.0 154.6  
176 73.7 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.098 min Scan# 1478  
Delta R.T. 0.006 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

Tgt Ion: 117 Resp: 420411  
Ion Ratio Lower Upper  
117 100  
82 55.8 47.4 71.2  
119 31.5 26.6 39.8

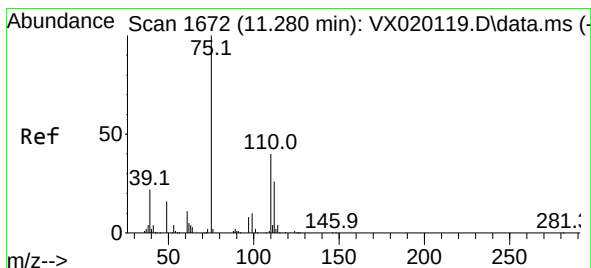
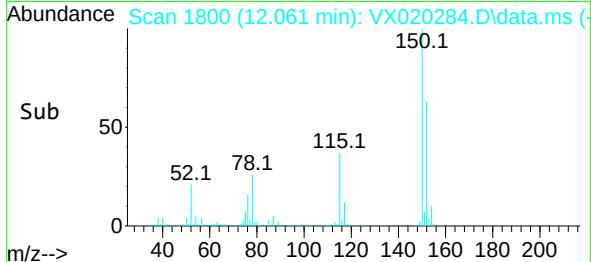
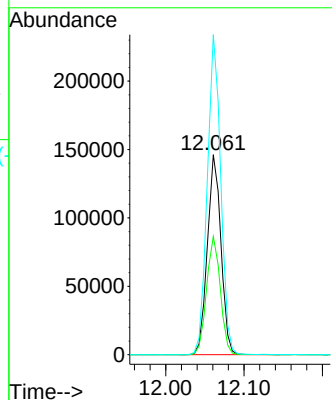
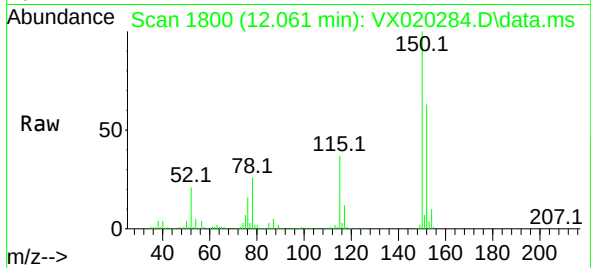




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 12.061 min Scan# 1800  
 Delta R.T. -0.000 min  
 Lab File: VX020284.D  
 Acq: 22 Dec 2020 05:16

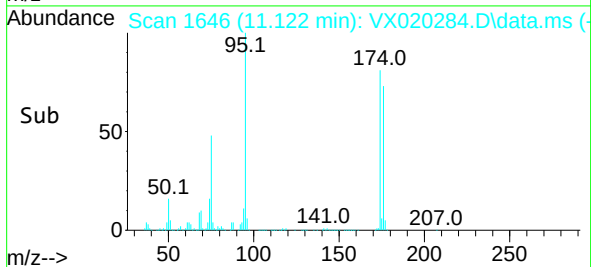
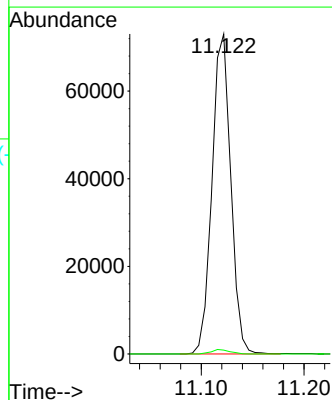
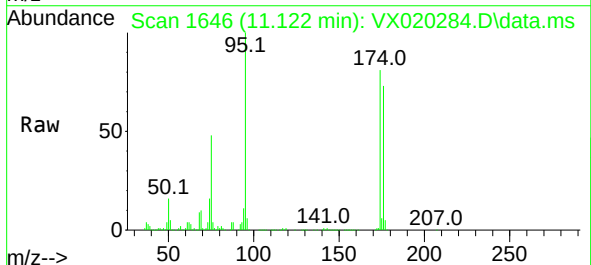
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB133709ZHE#15

Tgt Ion:152 Resp: 175571  
 Ion Ratio Lower Upper  
 152 100  
 115 59.7 41.1 123.3  
 150 157.9 0.0 349.0

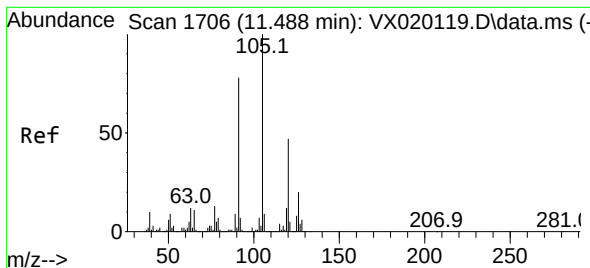


#76  
 1,2,3-Trichloropropane  
 Concen: 21.44 ug/l  
 RT: 11.122 min Scan# 1646  
 Delta R.T. -0.158 min  
 Lab File: VX020284.D  
 Acq: 22 Dec 2020 05:16

Tgt Ion: 75 Resp: 92703  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 19.1 57.5#



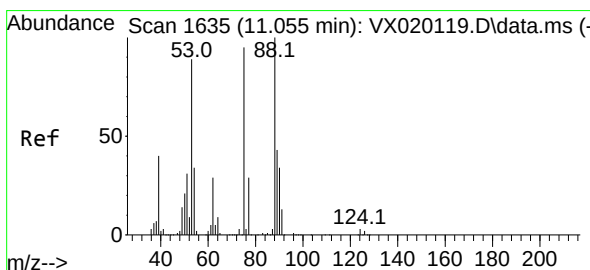
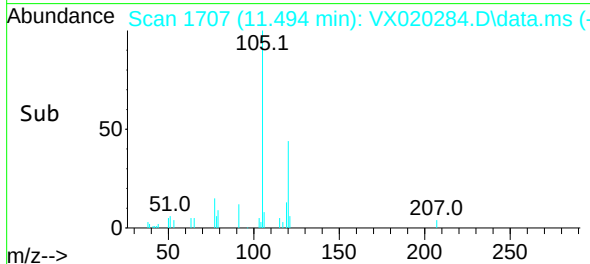
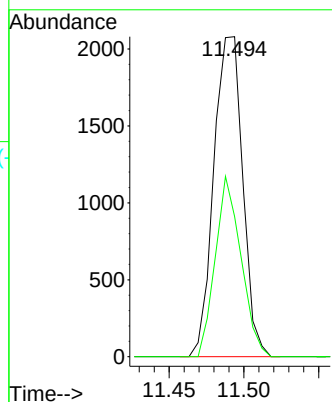
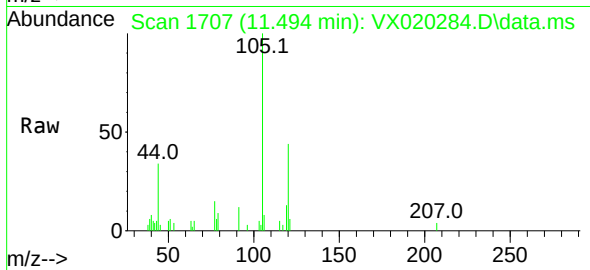




#80  
1,3,5-Trimethylbenzene  
Concen: 0.26 ug/l  
RT: 11.494 min Scan# 1707  
Delta R.T. 0.006 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133709ZHE#15

Tgt Ion:105 Resp: 2797  
Ion Ratio Lower Upper  
105 100  
120 50.0 23.8 71.5



#81  
trans-1,4-Dichloro-2-butene  
Concen: 63.59 ug/l  
RT: 11.122 min Scan# 1646  
Delta R.T. 0.067 min  
Lab File: VX020284.D  
Acq: 22 Dec 2020 05:16

Tgt Ion: 75 Resp: 92703  
Ion Ratio Lower Upper  
75 100  
53 0.2 74.5 111.7#  
89 0.0 37.9 56.9#

