

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX030621\  
 Data File : VX021009.D  
 Acq On : 04 Mar 2021 13:02  
 Operator : JC/MD  
 Sample : M1488-05  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 41698

Quant Time: Mar 04 13:37:23 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X022421W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 24 13:50:55 2021  
 Response via : Initial Calibration

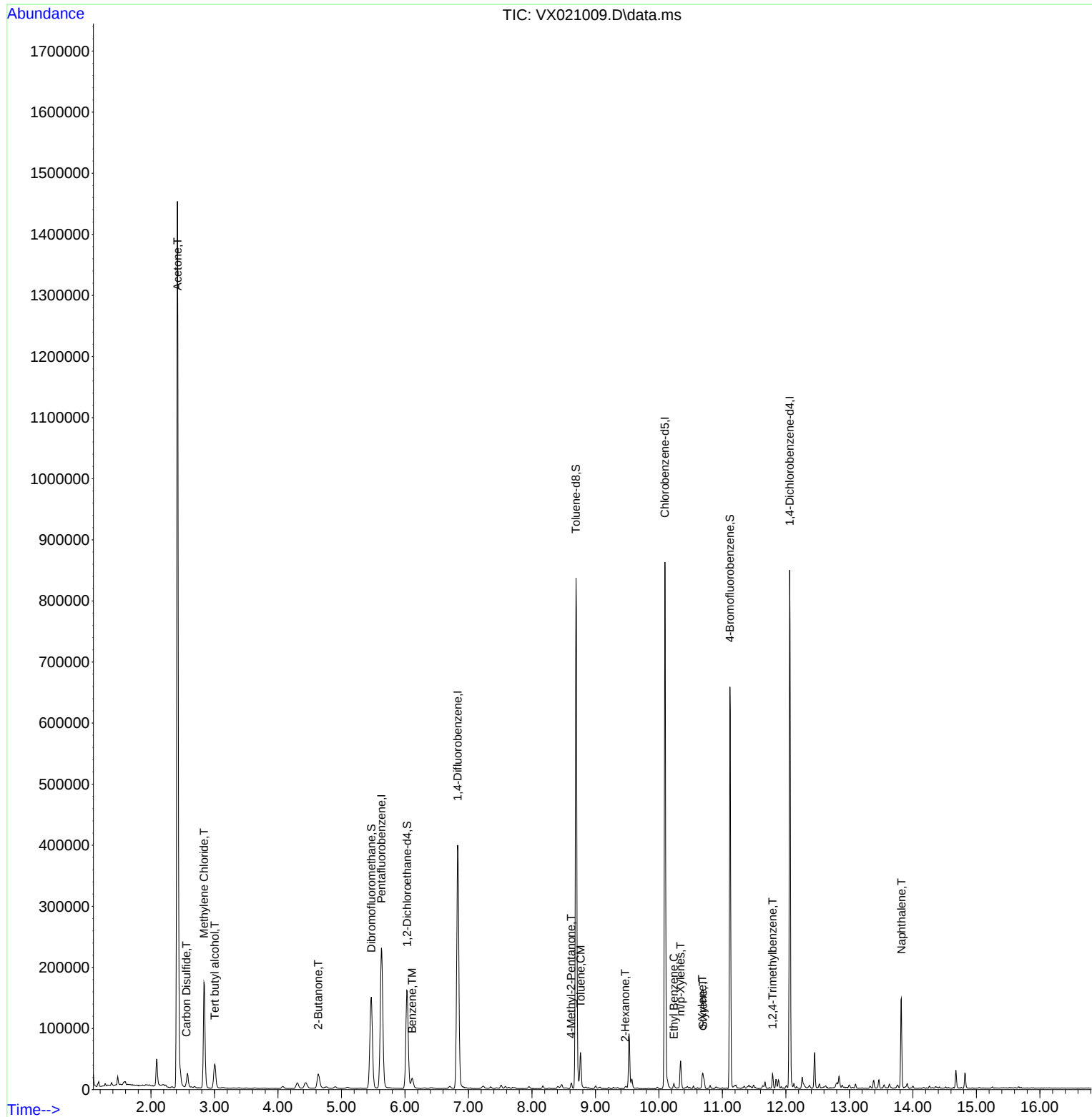
| Compound                    | R.T.           | QIon | Response           | Conc    | Units  | Dev(Min) |
|-----------------------------|----------------|------|--------------------|---------|--------|----------|
| -----                       |                |      |                    |         |        |          |
| Internal Standards          |                |      |                    |         |        |          |
| 1) Pentafluorobenzene       | 5.629          | 168  | 225946             | 50.00   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.829          | 114  | 422094             | 50.00   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 10.094         | 117  | 398932             | 50.00   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.059         | 152  | 175417             | 50.00   | ug/l   | 0.00     |
|                             |                |      |                    |         |        |          |
| System Monitoring Compounds |                |      |                    |         |        |          |
| 33) 1,2-Dichloroethane-d4   | 6.035          | 65   | 152772             | 50.06   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 61 - 141 |      | Recovery = 100.12% |         |        |          |
| 35) Dibromofluoromethane    | 5.470          | 113  | 132643             | 51.72   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 69 - 133 |      | Recovery = 103.44% |         |        |          |
| 50) Toluene-d8              | 8.694          | 98   | 522716             | 52.27   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 65 - 126 |      | Recovery = 104.54% |         |        |          |
| 62) 4-Bromofluorobenzene    | 11.118         | 95   | 186198             | 50.36   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 58 - 135 |      | Recovery = 100.72% |         |        |          |
|                             |                |      |                    |         |        |          |
| Target Compounds            |                |      |                    |         | Qvalue |          |
| 11) Tert butyl alcohol      | 3.005          | 59   | 46204              | 67.98   | ug/l   | 99       |
| 16) Acetone                 | 2.417          | 43   | 1482490            | 1178.86 | ug/l   | 99       |
| 17) Carbon Disulfide        | 2.558          | 76   | 4730               | 0.66    | ug/l   | 100      |
| 20) Methylene Chloride      | 2.835          | 84   | 85415              | 28.31   | ug/l   | 98       |
| 25) 2-Butanone              | 4.635          | 43   | 33751              | 17.67   | ug/l   | 97       |
| 40) Benzene                 | 6.111          | 78   | 19360              | 1.61    | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone    | 8.618          | 43   | 5153               | 1.36    | ug/l   | 98       |
| 52) Toluene                 | 8.765          | 92   | 20885              | 2.79    | ug/l   | 97       |
| 59) 2-Hexanone              | 9.471          | 43   | 1697               | 0.60    | ug/l   | 98       |
| 67) Ethyl Benzene           | 10.236         | 91   | 5183               | 0.34    | ug/l   | 98       |
| 68) m/p-Xylenes             | 10.341         | 106  | 9827               | 1.75    | ug/l   | 99       |
| 69) o-Xylene                | 10.683         | 106  | 3483               | 0.64    | ug/l   | 95       |
| 70) Styrene                 | 10.694         | 104  | 6917               | 0.74    | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene  | 11.789         | 105  | 8843               | 0.76    | ug/l   | 84       |
| 95) Naphthalene             | 13.818         | 128  | 91347              | 7.10    | ug/l   | 100      |
| -----                       |                |      |                    |         |        |          |

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

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MSVOA\_X  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X022421W.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 24 13:50:55 2021  
Response via : Initial Calibration

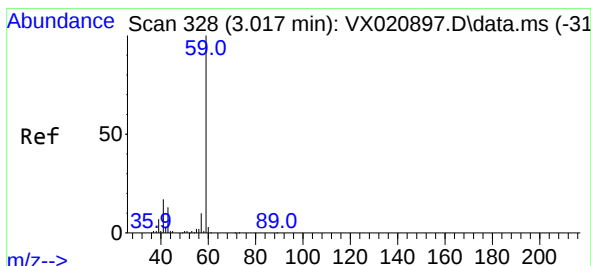
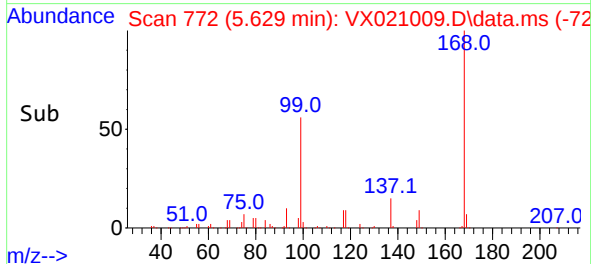
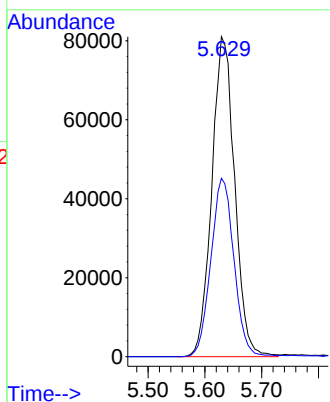
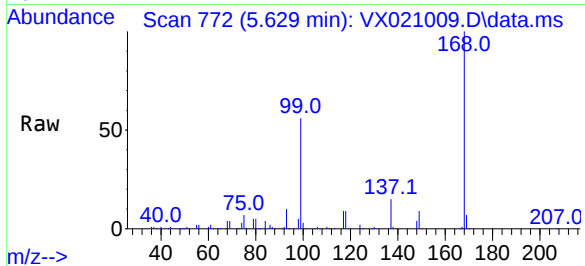




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.629 min Scan# 772  
Delta R.T. 0.006 min  
Lab File: VX021009.D  
Acq: 04 Mar 2021 13:02

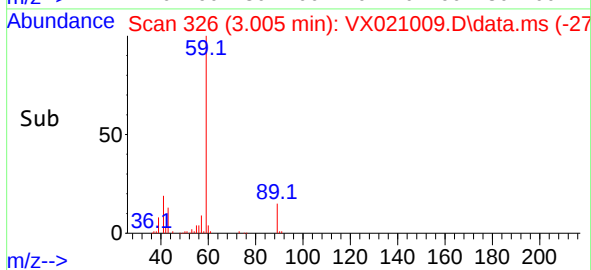
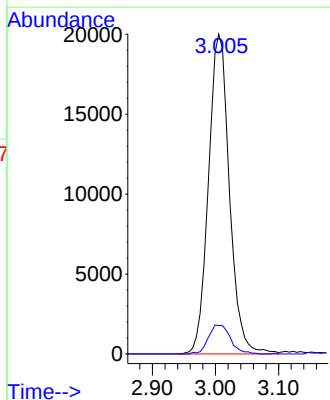
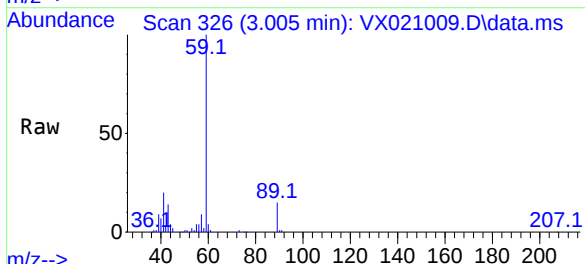
Instrument :  
MSVOA\_X  
ClientSampleId :  
41698

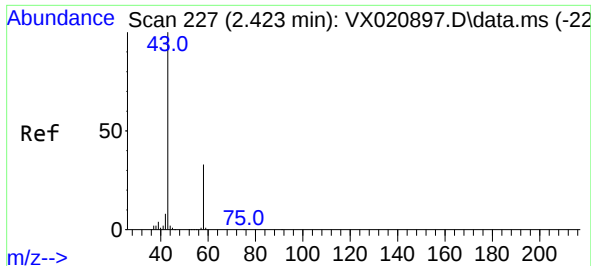
Tgt Ion:168 Resp: 225946  
Ion Ratio Lower Upper  
168 100  
99 55.8 45.8 68.6



#11  
Tert butyl alcohol  
Concen: 67.98 ug/l  
RT: 3.005 min Scan# 326  
Delta R.T. -0.012 min  
Lab File: VX021009.D  
Acq: 04 Mar 2021 13:02

Tgt Ion: 59 Resp: 46204  
Ion Ratio Lower Upper  
59 100  
57 9.6 7.8 11.8

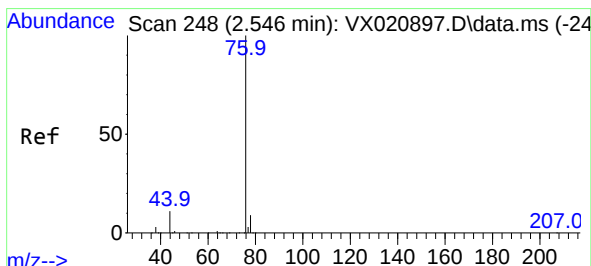
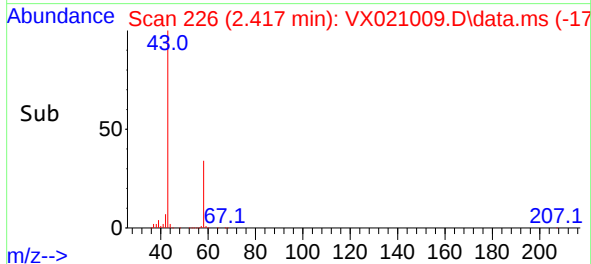
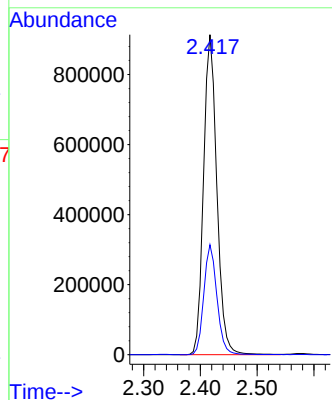
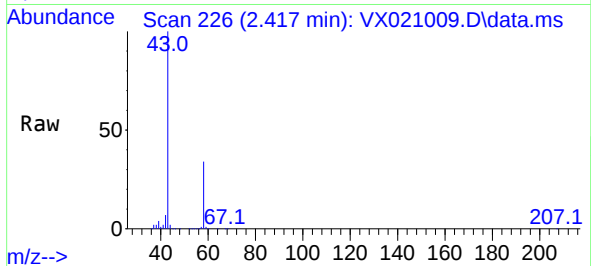




#16  
Acetone  
Concen: 1178.86 ug/l  
RT: 2.417 min Scan# 226  
Delta R.T. -0.006 min  
Lab File: VX021009.D  
Acq: 04 Mar 2021 13:02

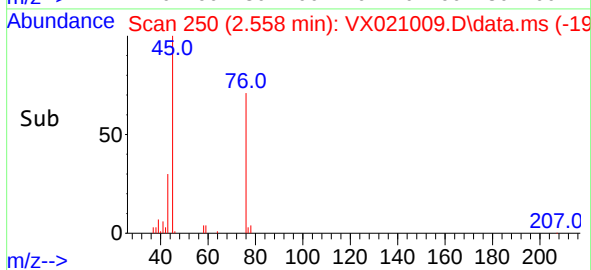
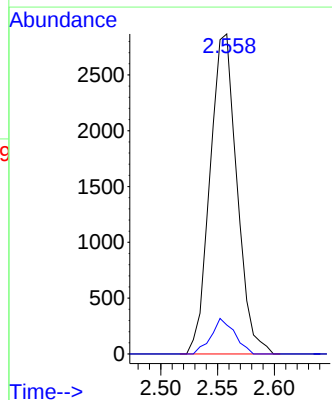
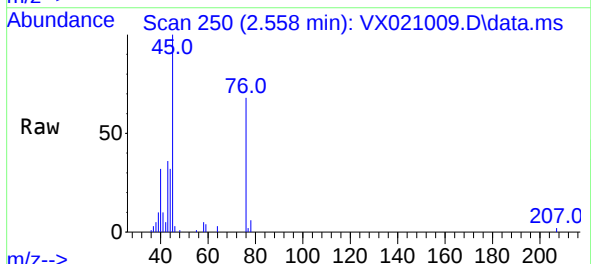
Instrument :  
MSVOA\_X  
ClientSampleId :  
41698

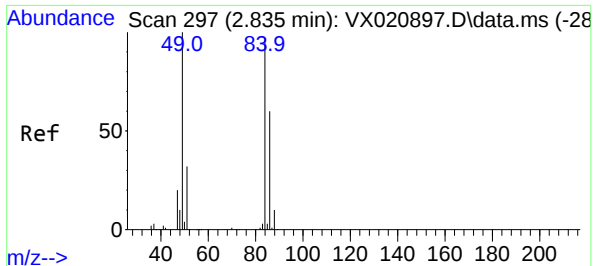
Tgt Ion: 43 Resp: 1482490  
Ion Ratio Lower Upper  
43 100  
58 34.3 27.8 41.8



#17  
Carbon Disulfide  
Concen: 0.66 ug/l  
RT: 2.558 min Scan# 250  
Delta R.T. 0.012 min  
Lab File: VX021009.D  
Acq: 04 Mar 2021 13:02

Tgt Ion: 76 Resp: 4730  
Ion Ratio Lower Upper  
76 100  
78 9.0 7.2 10.8



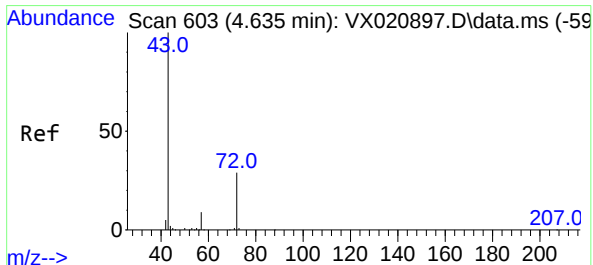
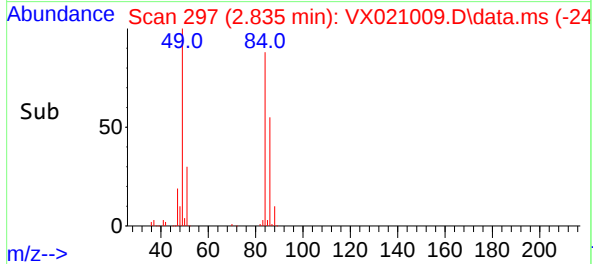
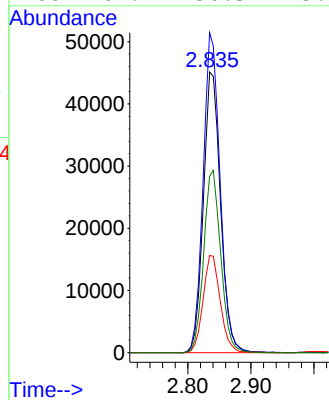
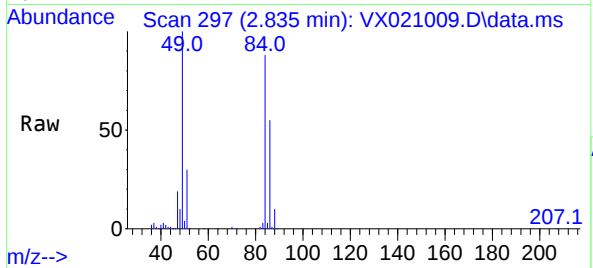


#20  
Methylene Chloride  
Concen: 28.31 ug/l  
RT: 2.835 min Scan# 297  
Delta R.T. 0.000 min  
Lab File: VX021009.D  
Acq: 04 Mar 2021 13:02

Instrument :  
MSVOA\_X  
ClientSampleId :  
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Tgt Ion: 84 Resp: 85415

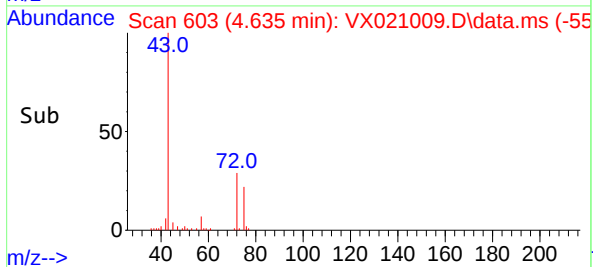
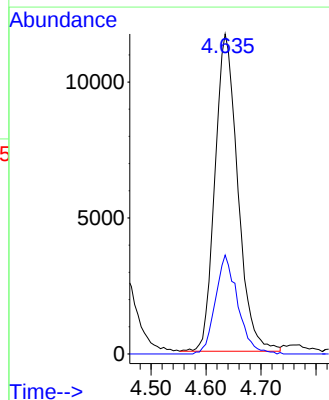
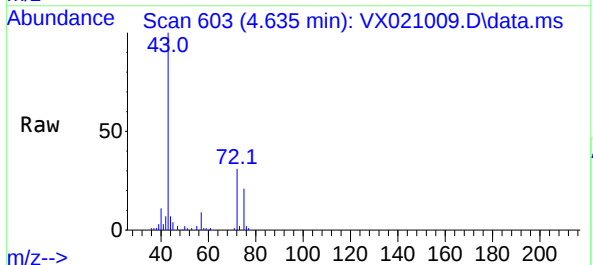
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 114.0 | 88.6  | 132.8 |
| 51  | 34.6  | 27.0  | 40.6  |
| 86  | 62.9  | 50.3  | 75.5  |

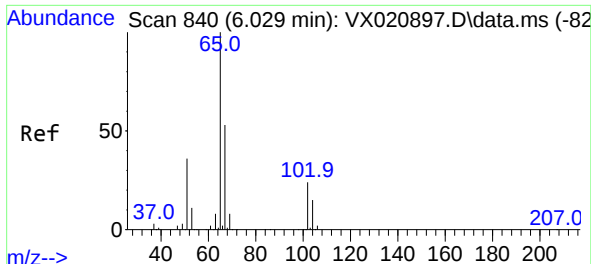


#25  
2-Butanone  
Concen: 17.67 ug/l  
RT: 4.635 min Scan# 603  
Delta R.T. 0.000 min  
Lab File: VX021009.D  
Acq: 04 Mar 2021 13:02

Tgt Ion: 43 Resp: 33751

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 31.2  | 23.7  | 35.5  |

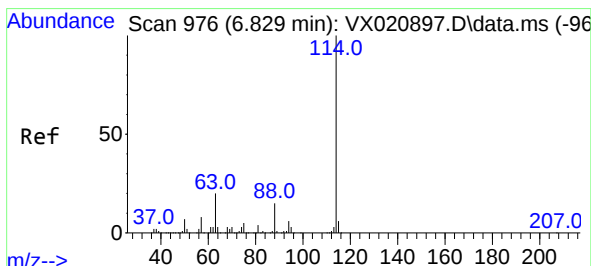
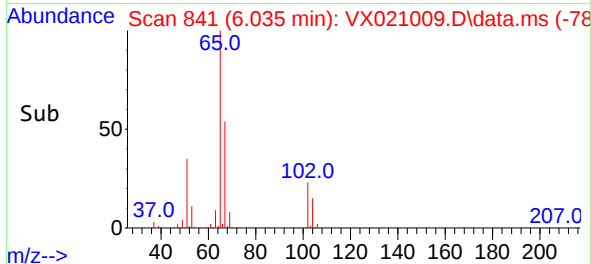
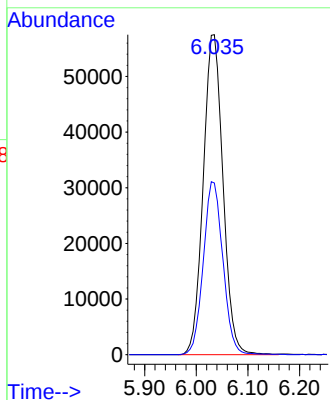
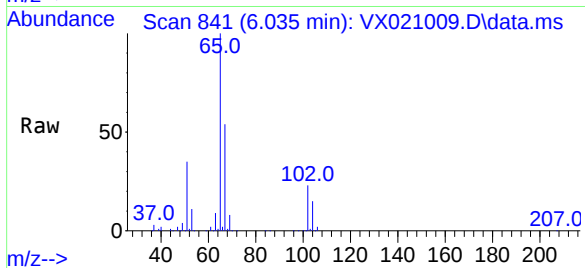




#33  
1,2-Dichloroethane-d4  
Concen: 50.06 ug/l  
RT: 6.035 min Scan# 841  
Delta R.T. 0.006 min  
Lab File: VX021009.D  
Acq: 04 Mar 2021 13:02

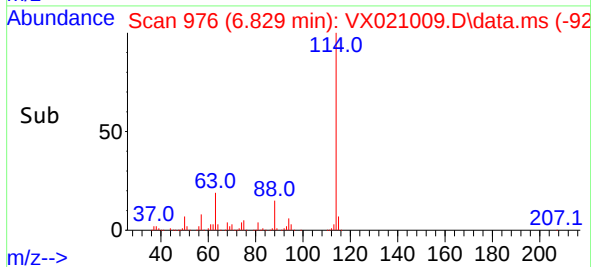
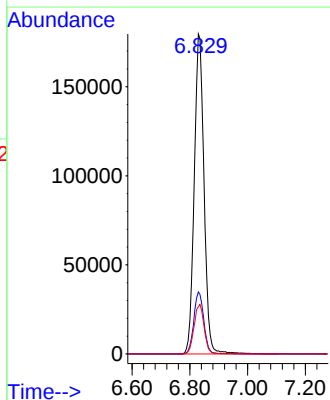
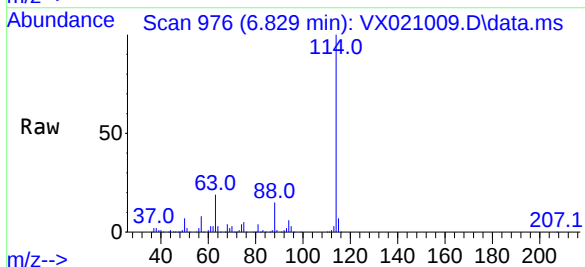
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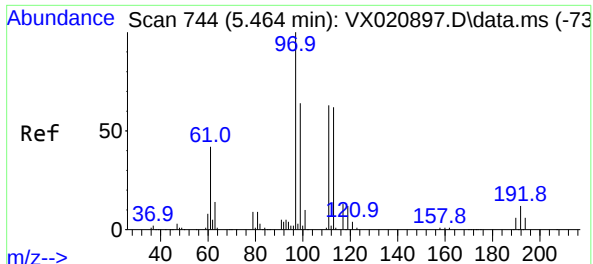
Tgt Ion: 65 Resp: 152772  
Ion Ratio Lower Upper  
65 100  
67 53.6 0.0 105.4



#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 6.829 min Scan# 976  
Delta R.T. 0.000 min  
Lab File: VX021009.D  
Acq: 04 Mar 2021 13:02

Tgt Ion: 114 Resp: 422094  
Ion Ratio Lower Upper  
114 100  
63 19.4 0.0 40.8  
88 14.8 0.0 32.8

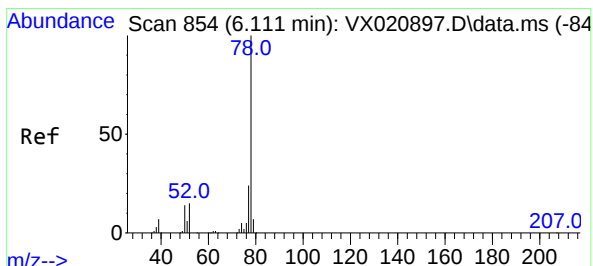
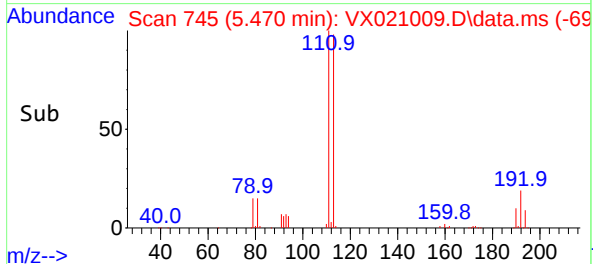
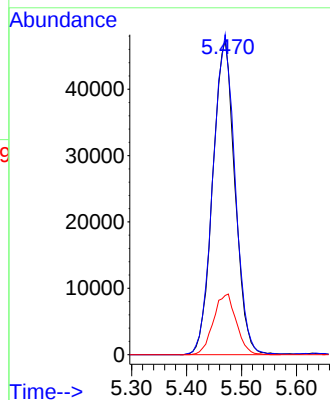
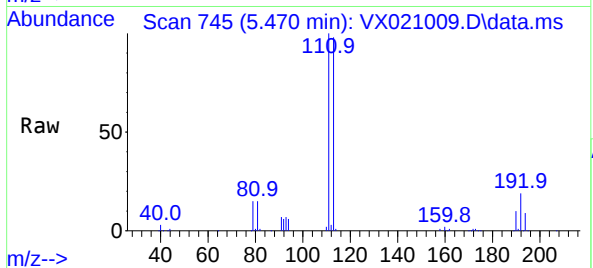




#35  
Dibromofluoromethane  
Concen: 51.72 ug/l  
RT: 5.470 min Scan# 745  
Delta R.T. 0.006 min  
Lab File: VX021009.D  
Acq: 04 Mar 2021 13:02

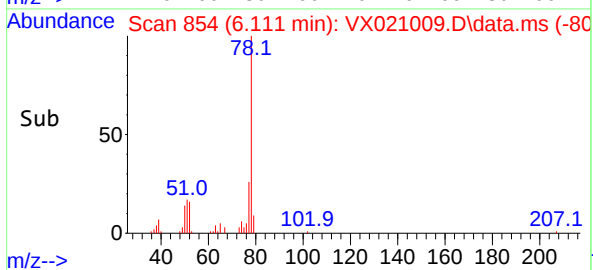
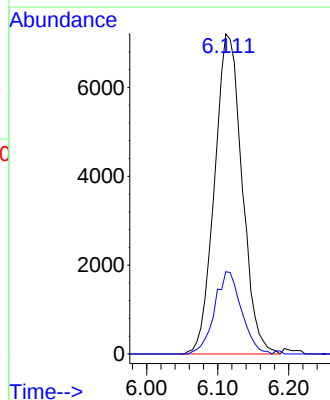
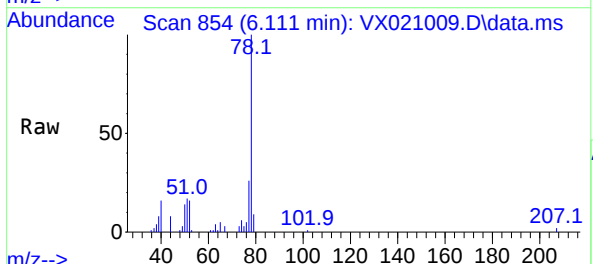
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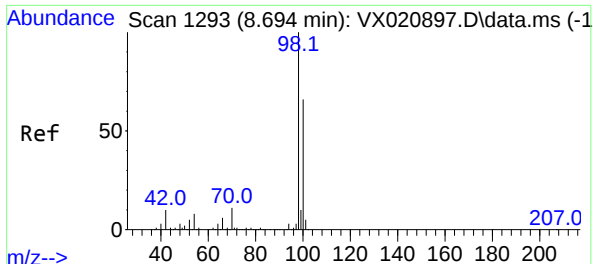
Tgt Ion:113 Resp: 132643  
Ion Ratio Lower Upper  
113 100  
111 102.2 81.9 122.9  
192 19.9 16.7 25.1



#40  
Benzene  
Concen: 1.61 ug/l  
RT: 6.111 min Scan# 854  
Delta R.T. 0.000 min  
Lab File: VX021009.D  
Acq: 04 Mar 2021 13:02

Tgt Ion: 78 Resp: 19360  
Ion Ratio Lower Upper  
78 100  
77 25.7 18.9 28.3

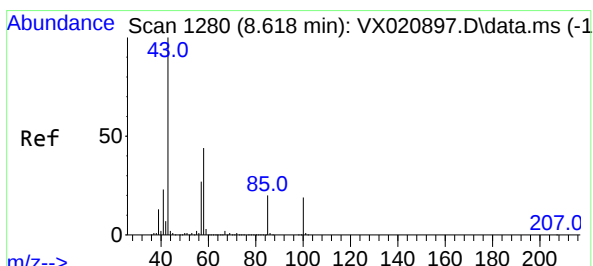
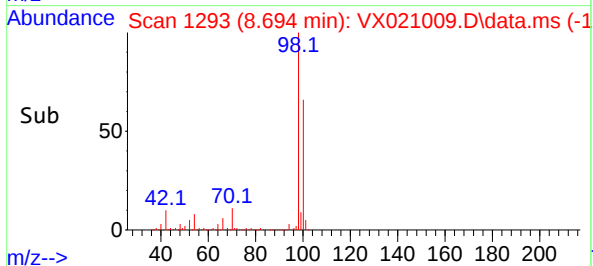
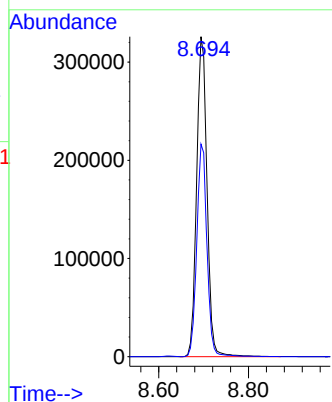
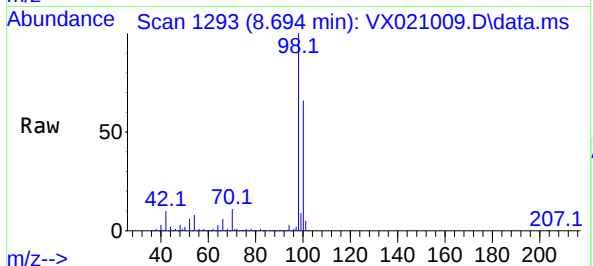




#50  
Toluene-d8  
Concen: 52.27 ug/l  
RT: 8.694 min Scan# 1293  
Delta R.T. 0.000 min  
Lab File: VX021009.D  
Acq: 04 Mar 2021 13:02

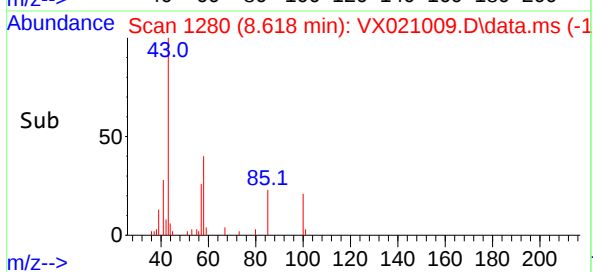
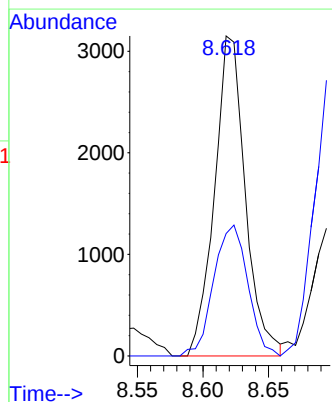
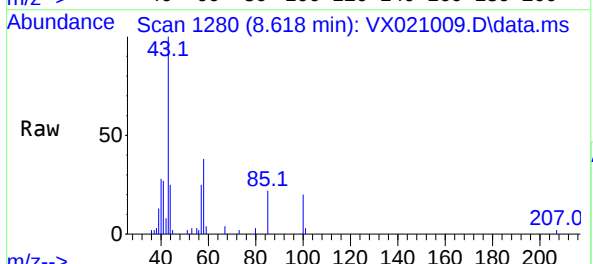
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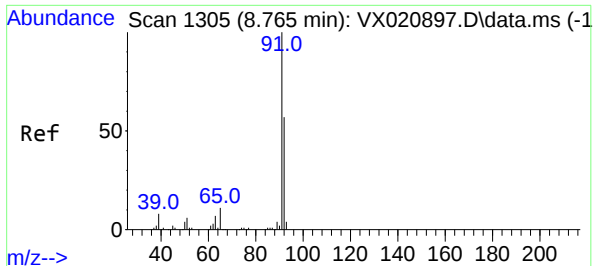
Tgt Ion: 98 Resp: 522716  
Ion Ratio Lower Upper  
98 100  
100 65.2 51.9 77.9



#51  
4-Methyl-2-Pentanone  
Concen: 1.36 ug/l  
RT: 8.618 min Scan# 1280  
Delta R.T. 0.000 min  
Lab File: VX021009.D  
Acq: 04 Mar 2021 13:02

Tgt Ion: 43 Resp: 5153  
Ion Ratio Lower Upper  
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58 45.2 35.4 53.0

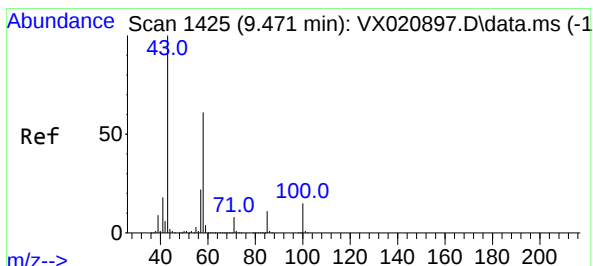
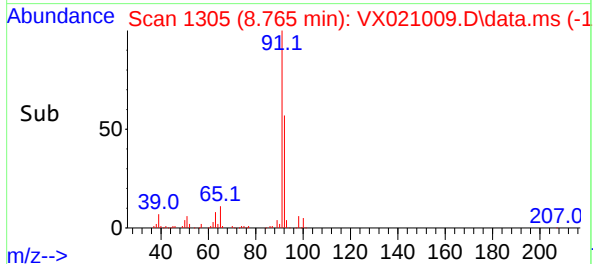
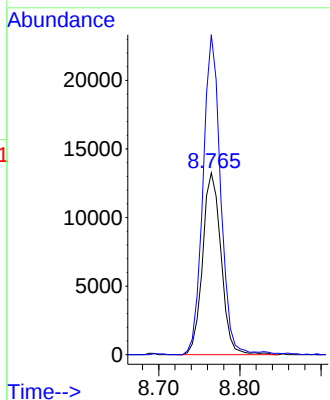
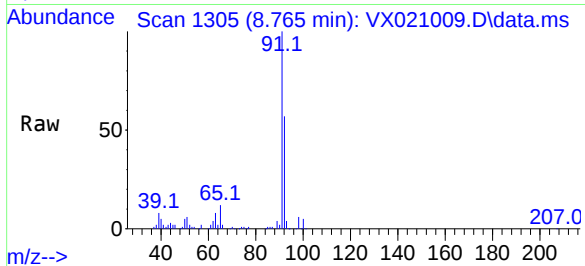




#52  
Toluene  
Concen: 2.79 ug/l  
RT: 8.765 min Scan# 1305  
Delta R.T. 0.000 min  
Lab File: VX021009.D  
Acq: 04 Mar 2021 13:02

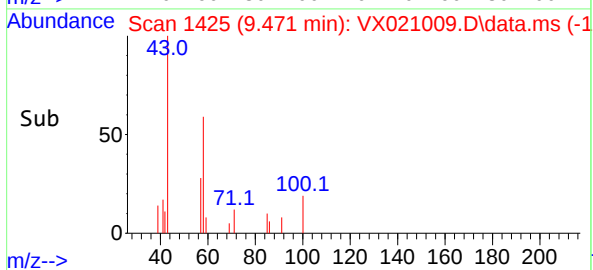
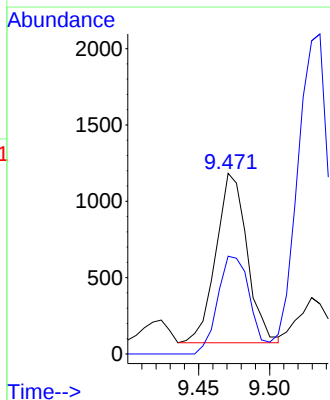
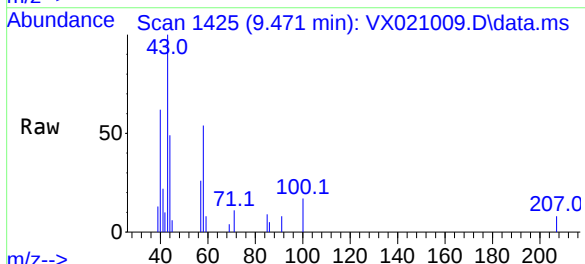
Instrument :  
MSVOA\_X  
ClientSampled :  
41698

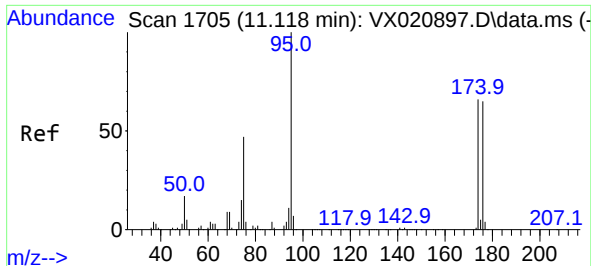
Tgt Ion: 92 Resp: 20885  
Ion Ratio Lower Upper  
92 100  
91 167.4 137.1 205.7



#59  
2-Hexanone  
Concen: 0.60 ug/l  
RT: 9.471 min Scan# 1425  
Delta R.T. 0.000 min  
Lab File: VX021009.D  
Acq: 04 Mar 2021 13:02

Tgt Ion: 43 Resp: 1697  
Ion Ratio Lower Upper  
43 100  
58 60.2 30.9 92.8

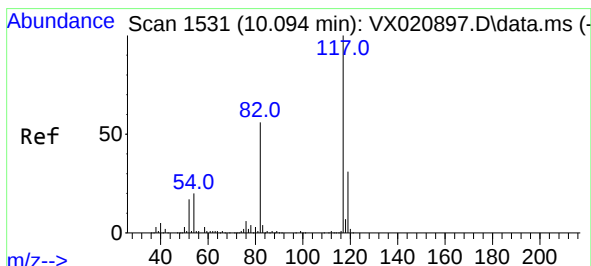
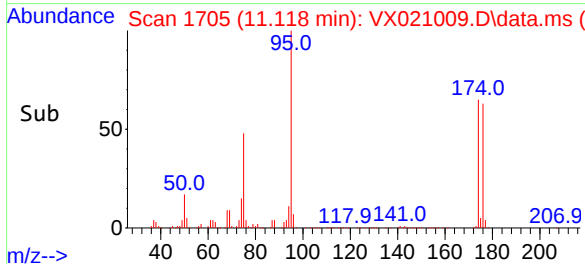
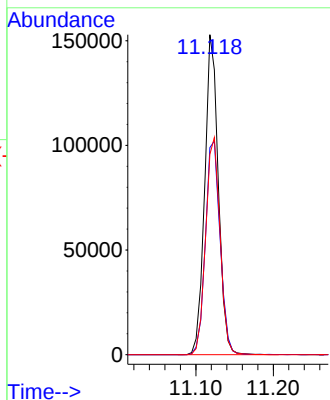
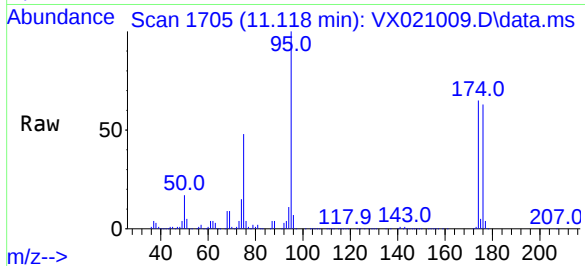




#62  
4-Bromofluorobenzene  
Concen: 50.36 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. 0.000 min  
Lab File: VX021009.D  
Acq: 04 Mar 2021 13:02

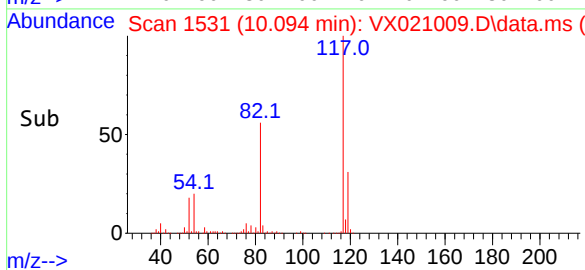
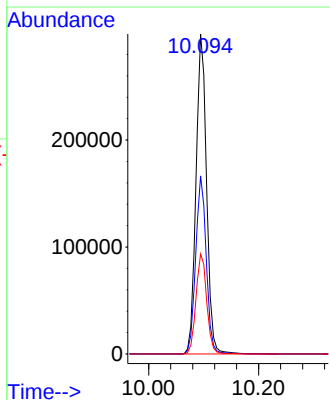
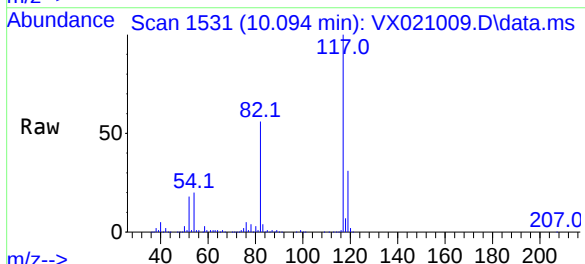
Instrument :  
MSVOA\_X  
ClientSampled :  
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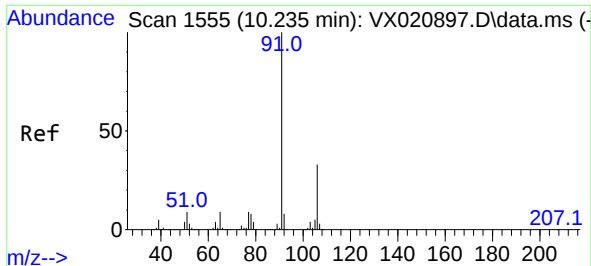
Tgt Ion: 95 Resp: 186198  
Ion Ratio Lower Upper  
95 100  
174 72.1 0.0 154.6  
176 71.8 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.094 min Scan# 1531  
Delta R.T. 0.000 min  
Lab File: VX021009.D  
Acq: 04 Mar 2021 13:02

Tgt Ion: 117 Resp: 398932  
Ion Ratio Lower Upper  
117 100  
82 55.7 47.4 71.2  
119 31.3 26.6 39.8

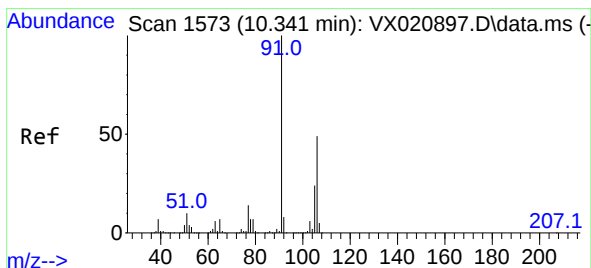
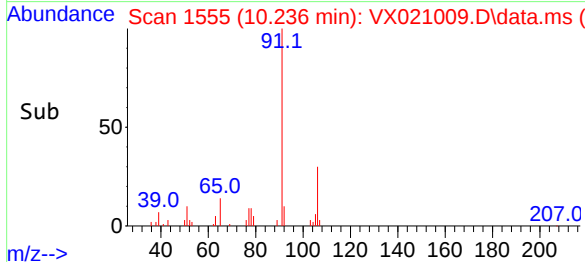
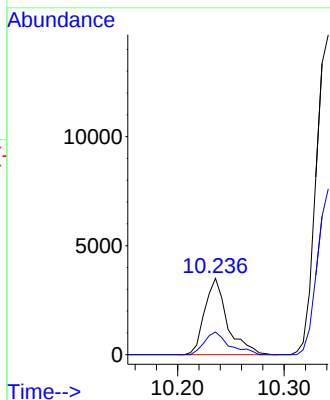
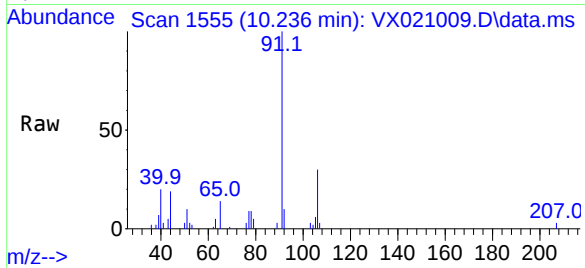




#67  
Ethyl Benzene  
Concen: 0.34 ug/l  
RT: 10.236 min Scan# 1555  
Delta R.T. 0.000 min  
Lab File: VX021009.D  
Acq: 04 Mar 2021 13:02

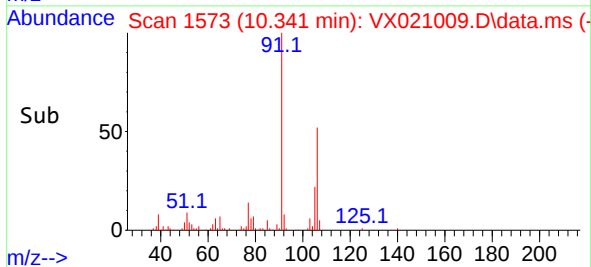
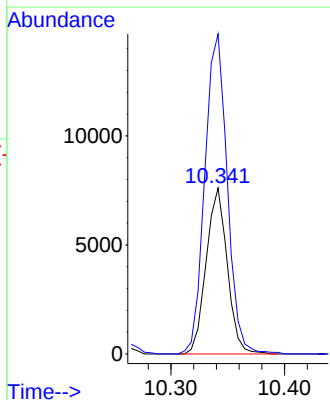
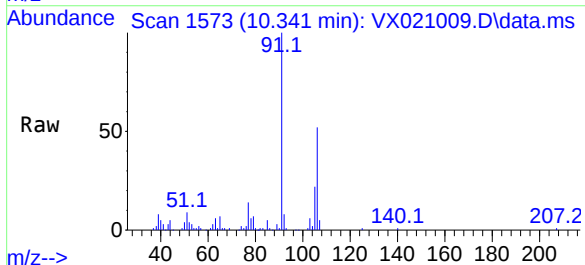
Instrument :  
MSVOA\_X  
ClientSampleId :  
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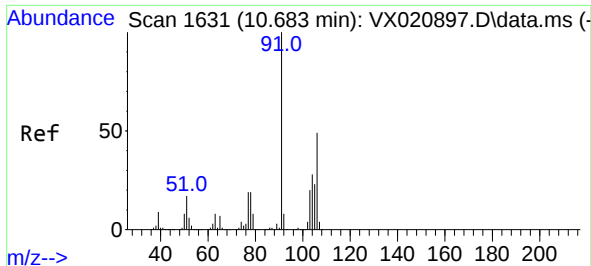
Tgt Ion: 91 Resp: 5183  
Ion Ratio Lower Upper  
91 100  
106 29.9 24.6 37.0



#68  
m/p-Xylenes  
Concen: 1.75 ug/l  
RT: 10.341 min Scan# 1573  
Delta R.T. 0.000 min  
Lab File: VX021009.D  
Acq: 04 Mar 2021 13:02

Tgt Ion:106 Resp: 9827  
Ion Ratio Lower Upper  
106 100  
91 205.1 162.8 244.2

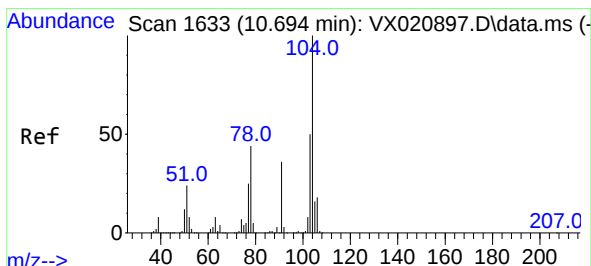
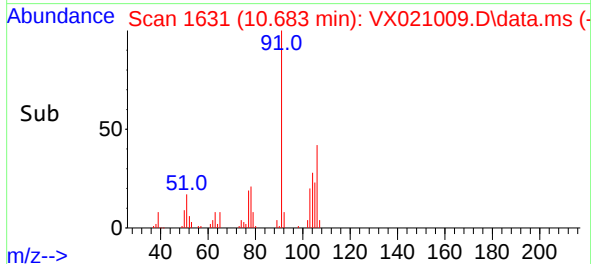
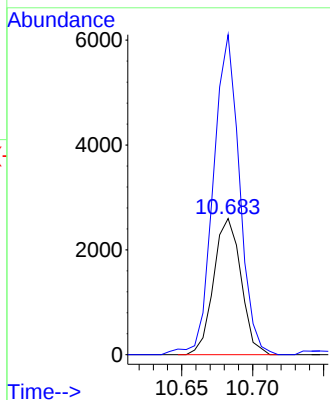
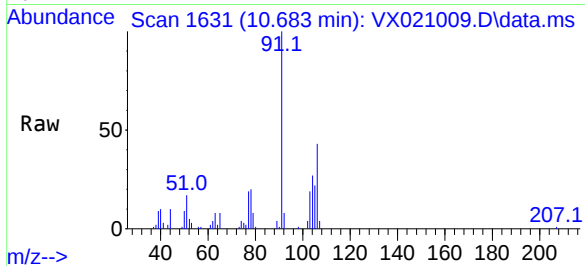




#69  
o-Xylene  
Concen: 0.64 ug/l  
RT: 10.683 min Scan# 1631  
Delta R.T. 0.000 min  
Lab File: VX021009.D  
Acq: 04 Mar 2021 13:02

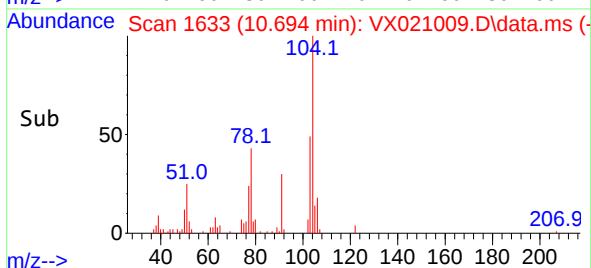
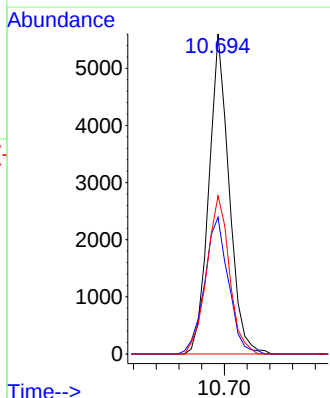
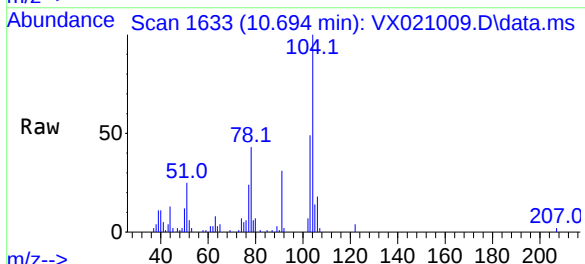
Instrument :  
MSVOA\_X  
ClientSampled :  
41698

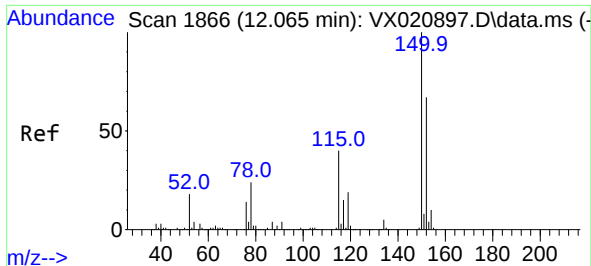
Tgt Ion:106 Resp: 3483  
Ion Ratio Lower Upper  
106 100  
91 224.7 108.1 324.2



#70  
Styrene  
Concen: 0.74 ug/l  
RT: 10.694 min Scan# 1633  
Delta R.T. 0.000 min  
Lab File: VX021009.D  
Acq: 04 Mar 2021 13:02

Tgt Ion:104 Resp: 6917  
Ion Ratio Lower Upper  
104 100  
78 50.3 40.0 60.0  
103 55.3 43.4 65.0

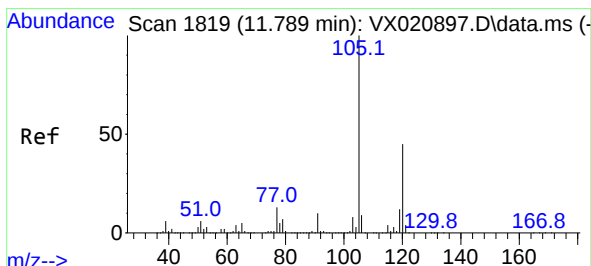
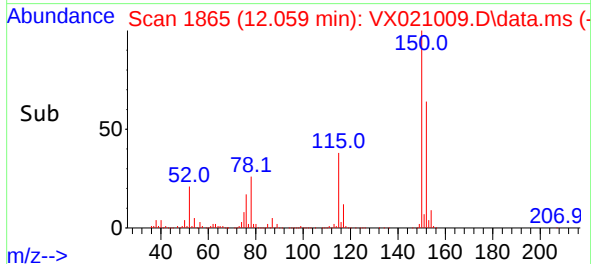
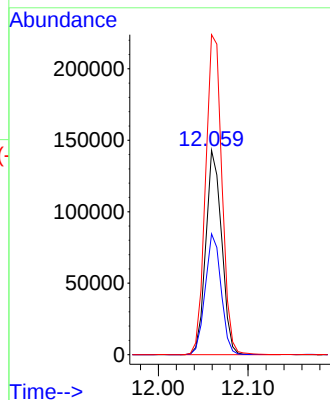
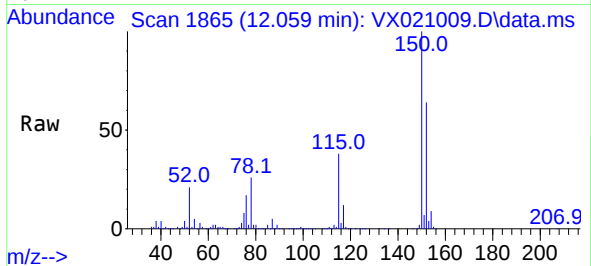




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.059 min Scan# 1865  
Delta R.T. -0.006 min  
Lab File: VX021009.D  
Acq: 04 Mar 2021 13:02

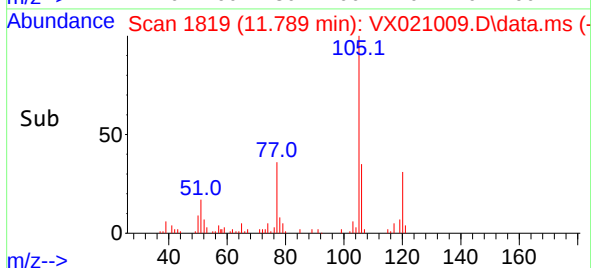
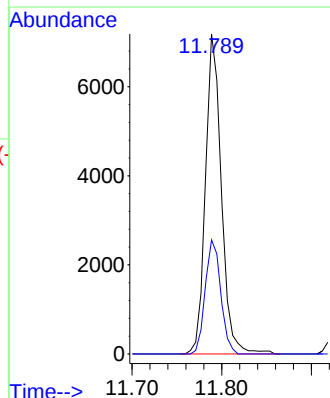
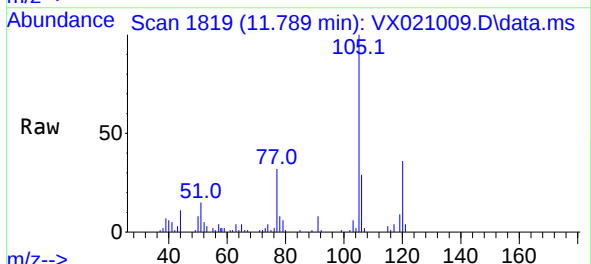
Instrument :  
MSVOA\_X  
ClientSampled :  
41698

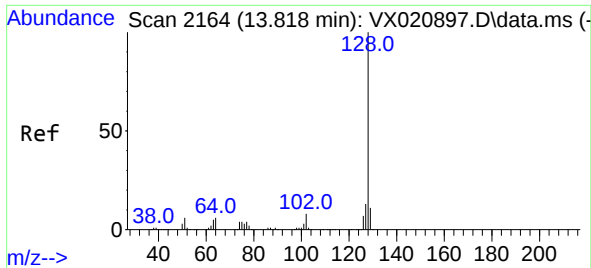
Tgt Ion:152 Resp: 175417  
Ion Ratio Lower Upper  
152 100  
115 59.1 41.1 123.3  
150 161.9 0.0 349.0



#84  
1,2,4-Trimethylbenzene  
Concen: 0.76 ug/l  
RT: 11.789 min Scan# 1819  
Delta R.T. 0.000 min  
Lab File: VX021009.D  
Acq: 04 Mar 2021 13:02

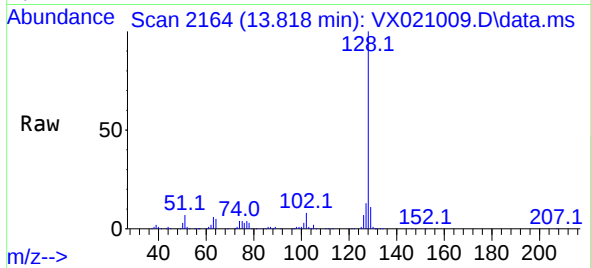
Tgt Ion:105 Resp: 8843  
Ion Ratio Lower Upper  
105 100  
120 34.7 22.4 67.3





#95  
Naphthalene  
Concen: 7.10 ug/l  
RT: 13.818 min Scan# 2164  
Delta R.T. 0.000 min  
Lab File: VX021009.D  
Acq: 04 Mar 2021 13:02

Instrument :  
MSVOA\_X  
ClientSampleId :  
41698



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 91347 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 12.8  | 10.3  | 15.5  |
| 129      | 11.2  | 8.8   | 13.2  |

