

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_w\Data\Vw122220\  
 Data File : Vw017699.D  
 Acq On : 22 Dec 2020 12:21  
 Operator : SY/VA  
 Sample : L5176-01RE  
 Misc : 4.91G/5ML/MSVOA\_w/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 CHRT-26878RE

Quant Time: Dec 23 02:08:01 2020  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_w\Method\82W121420S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 14 12:39:23 2020  
 Response via : Initial Calibration

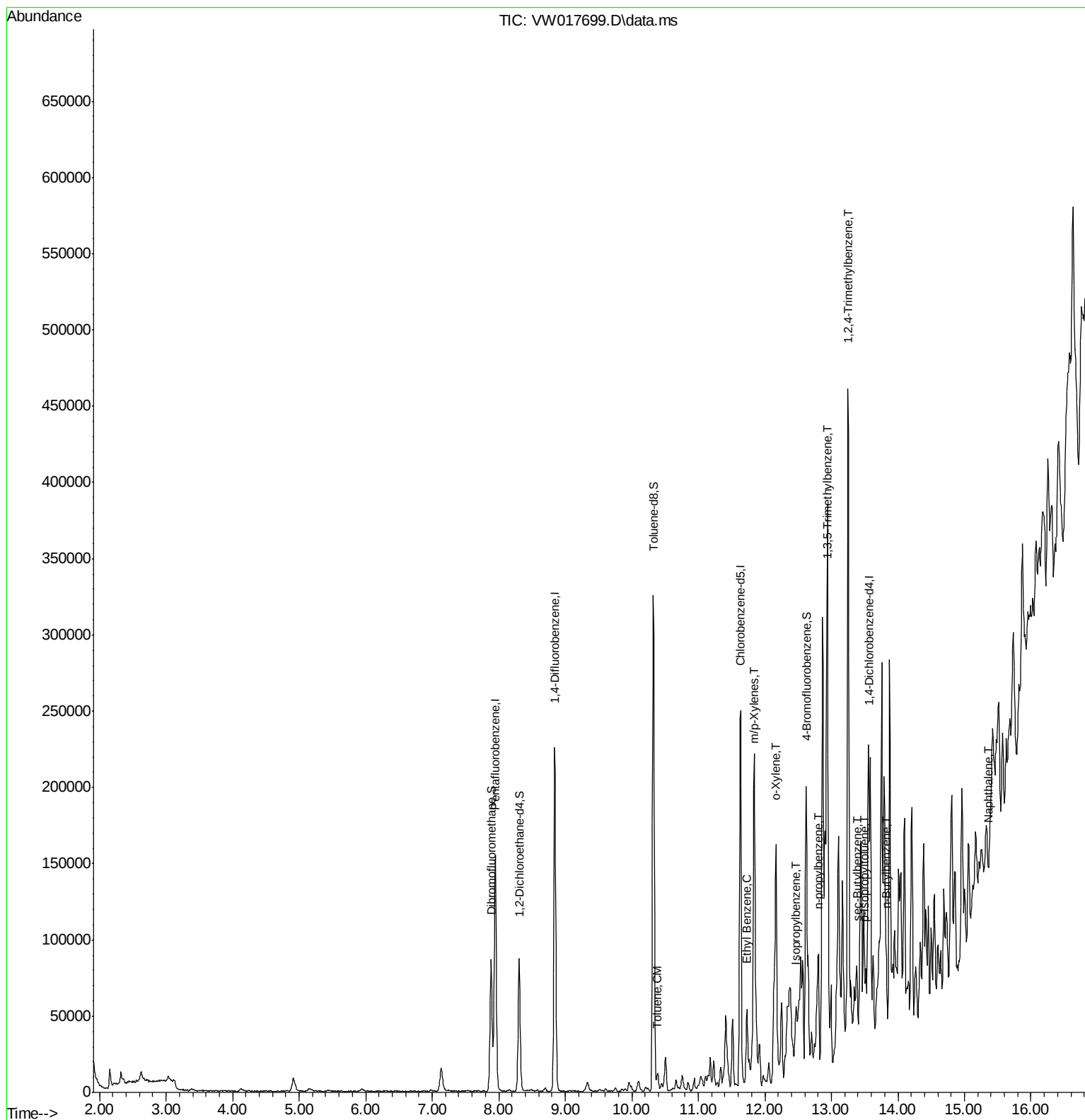
| Compound                    | R.T.   | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|--------|------|----------|-------|---------|----------|
| -----                       |        |      |          |       |         |          |
| Internal Standards          |        |      |          |       |         |          |
| 1) Pentafluorobenzene       | 7.946  | 168  | 110310   | 50.00 | ug/l    | # 0.00   |
| 34) 1,4-Difluorobenzene     | 8.842  | 114  | 187006   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.634 | 117  | 136193   | 50.00 | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.560 | 152  | 36704    | 50.00 | ug/l    | 0.00     |
| System Monitoring Compounds |        |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.311  | 65   | 68943    | 51.31 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 102.62% |          |
| 35) Dibromofluoromethane    | 7.885  | 113  | 59662    | 48.21 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 96.42%  |          |
| 50) Toluene-d8              | 10.323 | 98   | 204868   | 42.52 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 85.04%  |          |
| 62) 4-Bromofluorobenzene    | 12.622 | 95   | 55187    | 32.08 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 64.16%  |          |
| Target Compounds            |        |      |          |       |         |          |
|                             |        |      |          |       |         | Qvalue   |
| 52) Toluene                 | 10.384 | 92   | 4595     | 1.35  | ug/l    | 96       |
| 67) Ethyl Benzene           | 11.731 | 91   | 28745    | 5.28  | ug/l    | 98       |
| 68) m/p-Xylenes             | 11.835 | 106  | 35153    | 16.94 | ug/l    | 92       |
| 69) o-Xylene                | 12.164 | 106  | 35433    | 18.11 | ug/l    | 92       |
| 73) Isopropylbenzene        | 12.463 | 105  | 15680    | 5.40  | ug/l    | 99       |
| 78) n-propylbenzene         | 12.804 | 91   | 51268    | 14.88 | ug/l    | 96       |
| 80) 1,3,5-Trimethylbenzene  | 12.945 | 105  | 88044    | 35.84 | ug/l    | 96       |
| 84) 1,2,4-Trimethylbenzene  | 13.249 | 105  | 230491   | 95.27 | ug/l    | 98       |
| 85) sec-Butylbenzene        | 13.384 | 105  | 21684    | 7.35  | ug/l    | 86       |
| 86) p-Isopropyltoluene      | 13.499 | 119  | 12545    | 4.71  | ug/l    | 95       |
| 89) n-Butylbenzene          | 13.823 | 91   | 20870    | 7.97  | ug/l #  | 73       |
| 95) Naphthalene             | 15.365 | 128  | 10673    | 7.41  | ug/l #  | 95       |
| -----                       |        |      |          |       |         |          |

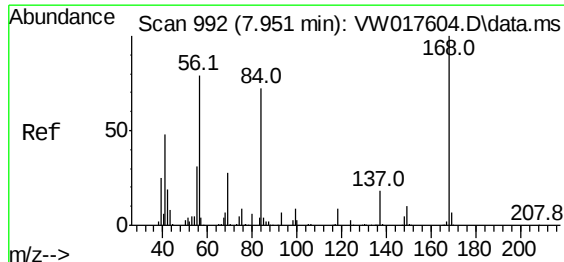
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\Vw122220\  
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Sample : L5176-01RE  
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ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
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Quant Time: Dec 23 02:08:01 2020  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82w121420S.M  
Quant Title : SW846 8260  
QLast Update : Mon Dec 14 12:39:23 2020  
Response via : Initial Calibration

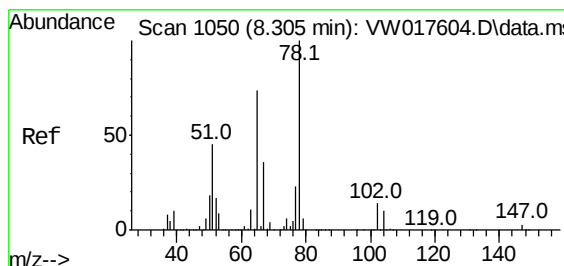
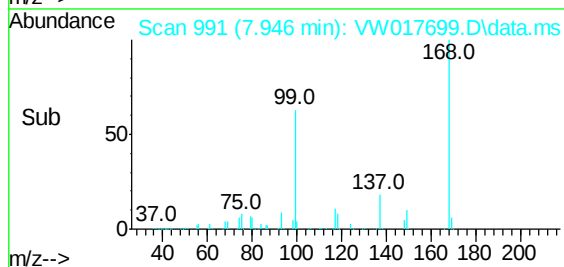
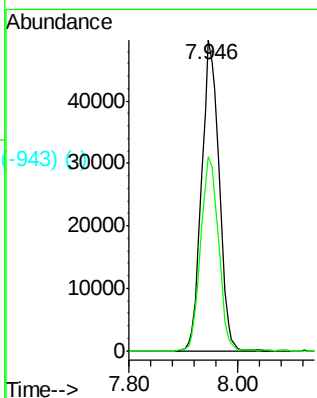
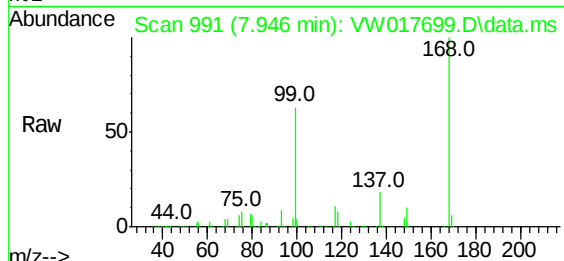




Pentafluorobenzene  
 Concen: 50.00 ug/l  
 RT: 7.946 min Scan# 991  
 Delta R.T. -0.005 min  
 Lab File: VW017699.D  
 Acq: 22 Dec 2020 12:21

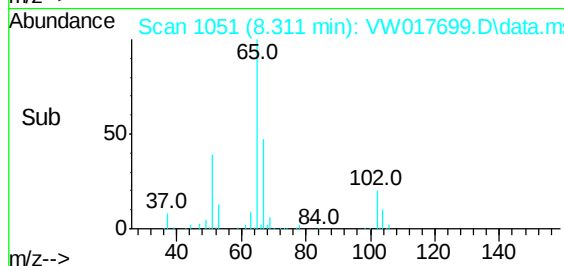
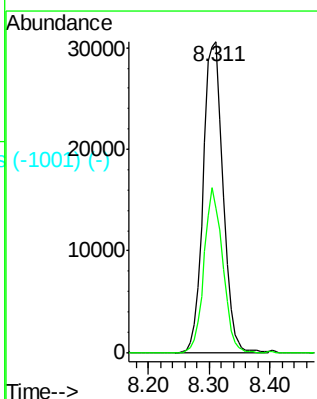
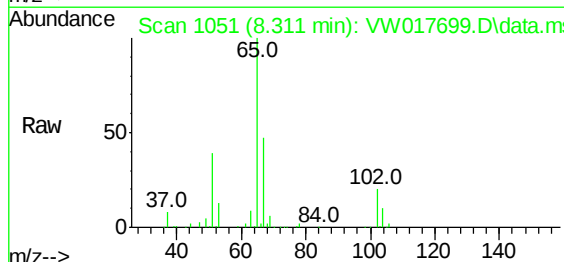
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 CHRT-26878RE

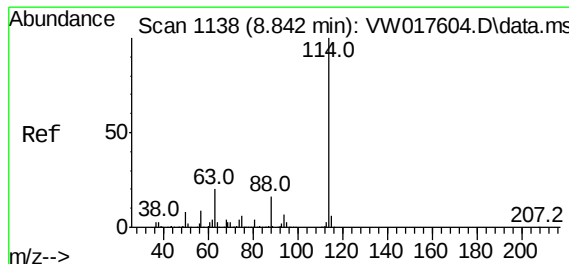
Tgt Ion: 168 Resp: 110310  
 Ion Ratio Lower Upper  
 168 100  
 99 62.6 40.7 61.1#



1,2-Dichloroethane-d4  
 Concen: 51.31 ug/l  
 RT: 8.311 min Scan# 1051  
 Delta R.T. 0.006 min  
 Lab File: VW017699.D  
 Acq: 22 Dec 2020 12:21

Tgt Ion: 65 Resp: 68943  
 Ion Ratio Lower Upper  
 65 100  
 67 49.7 0.0 103.8

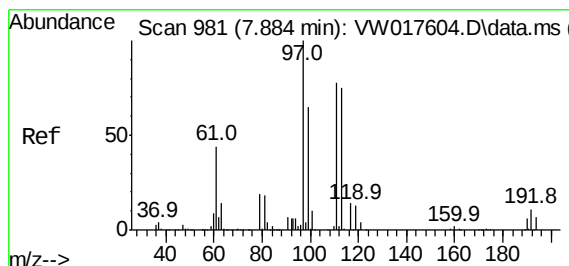
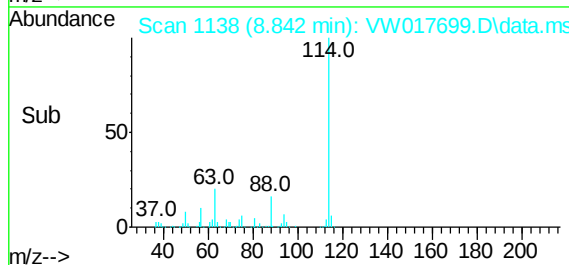
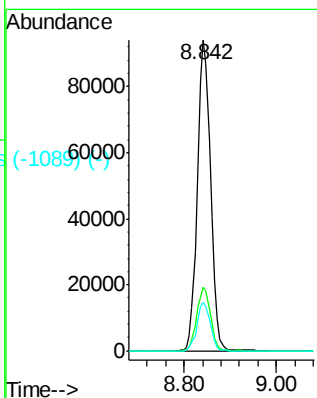
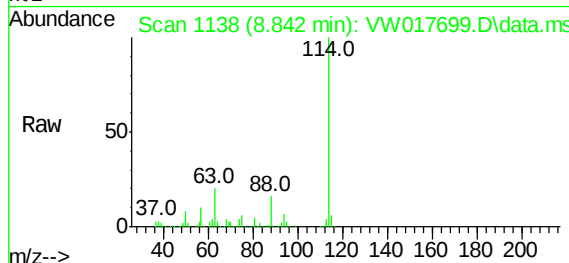




#948 (-)  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.842 min Scan# 1138  
Delta R.T. -0.000 min  
Lab File: VW017699.D  
Acq: 22 Dec 2020 12:21

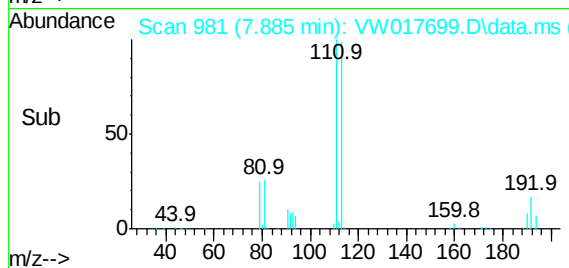
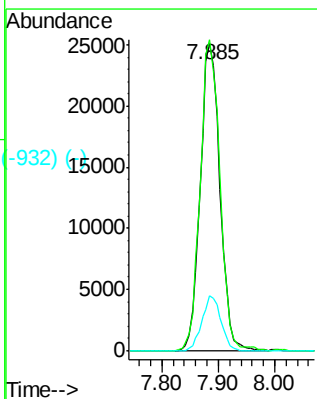
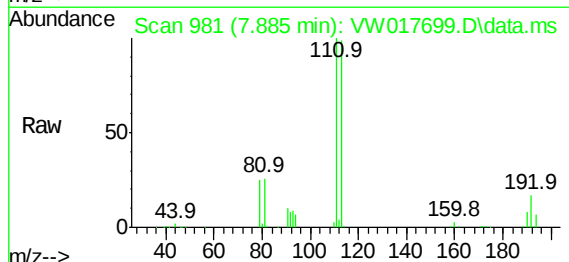
Instrument :  
MSVOA\_W  
ClientSampleId :  
CHRT-26878RE

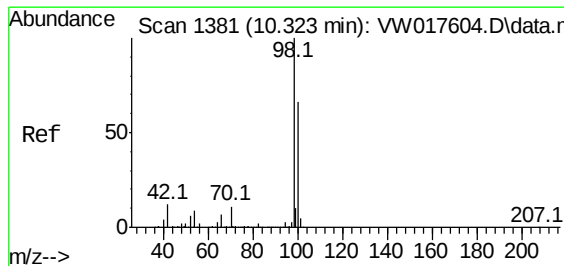
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 114   | Resp: | 187006 |
| Ion Ratio | Lower | Upper |        |
| 114       | 100   |       |        |
| 63        | 20.4  | 0.0   | 35.6   |
| 88        | 15.7  | 0.0   | 30.4   |



#949 (-)  
Dibromofluoromethane  
Concen: 48.21 ug/l  
RT: 7.885 min Scan# 981  
Delta R.T. 0.001 min  
Lab File: VW017699.D  
Acq: 22 Dec 2020 12:21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 113   | Resp: | 59662 |
| Ion Ratio | Lower | Upper |       |
| 113       | 100   |       |       |
| 111       | 102.1 | 81.4  | 122.2 |
| 192       | 17.0  | 17.8  | 26.8# |

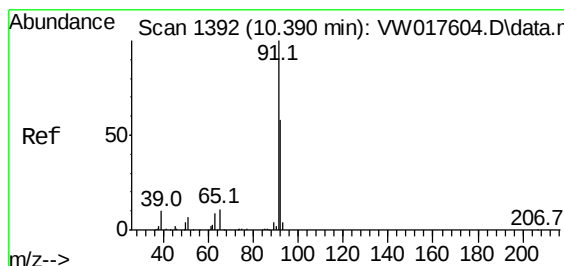
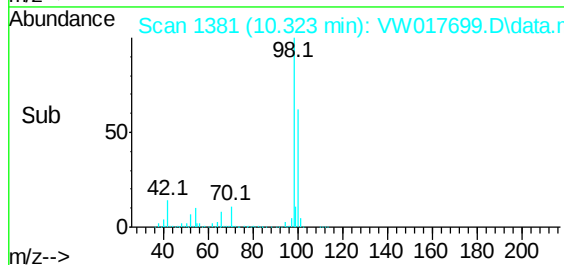
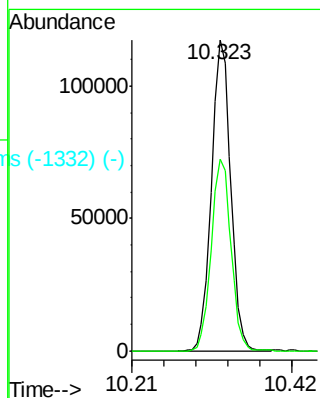
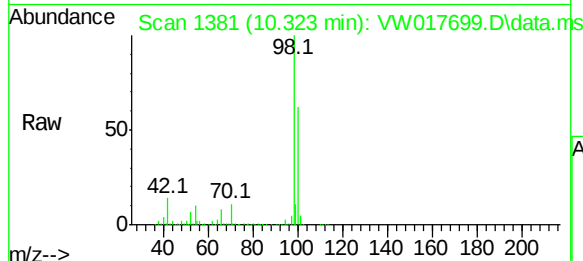




#50  
Toluene-d8  
Concen: 42.52 ug/l  
RT: 10.323 min Scan# 1381  
Delta R.T. 0.000 min  
Lab File: VW017699.D  
Acq: 22 Dec 2020 12:21

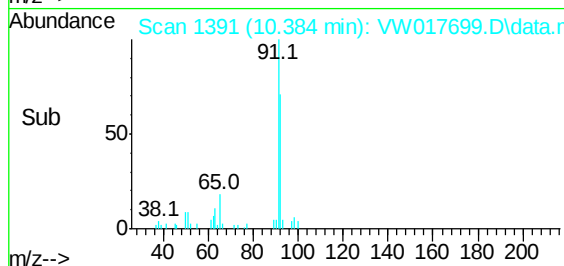
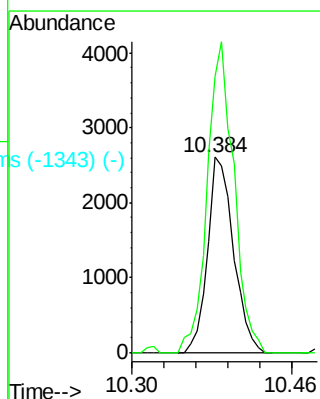
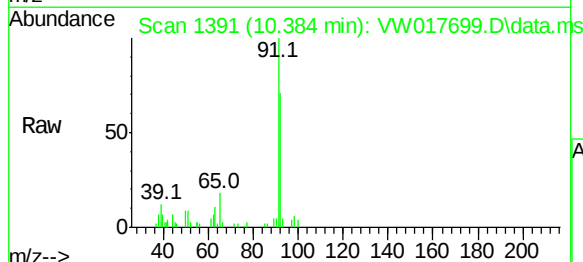
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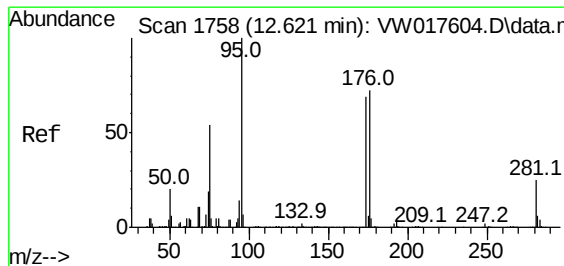
Tgt Ion: 98 Resp: 204868  
Ion Ratio Lower Upper  
98 100  
100 63.4 53.3 79.9



#52  
Toluene  
Concen: 1.35 ug/l  
RT: 10.384 min Scan# 1391  
Delta R.T. -0.006 min  
Lab File: VW017699.D  
Acq: 22 Dec 2020 12:21

Tgt Ion: 92 Resp: 4595  
Ion Ratio Lower Upper  
92 100  
91 162.7 134.7 202.1

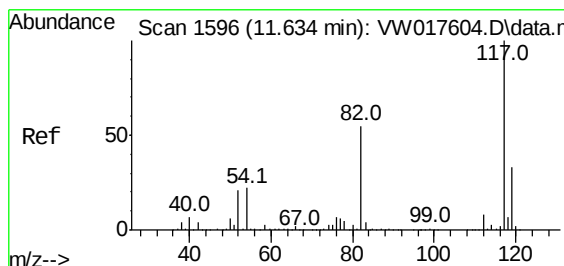
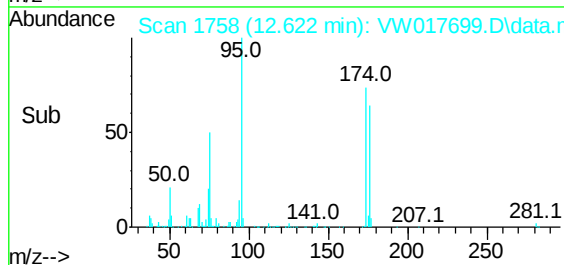
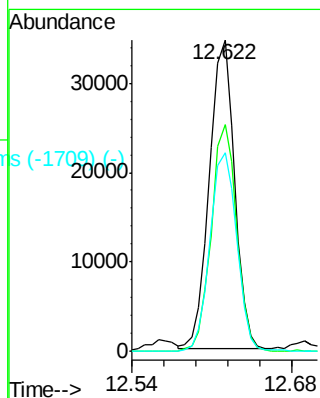
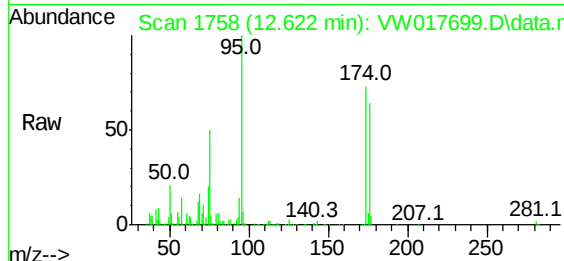




#6249 (-)  
4-Bromofluorobenzene  
Concen: 32.08 ug/l  
RT: 12.622 min Scan# 1758  
Delta R.T. 0.001 min  
Lab File: Vw017699.D  
Acq: 22 Dec 2020 12:21

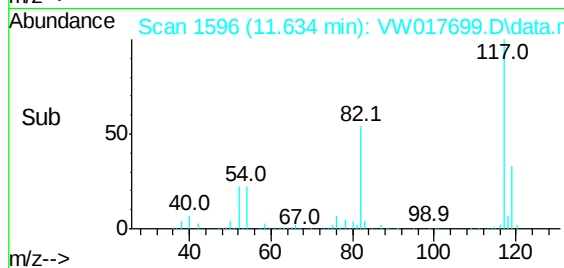
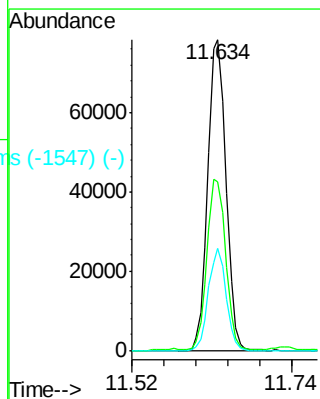
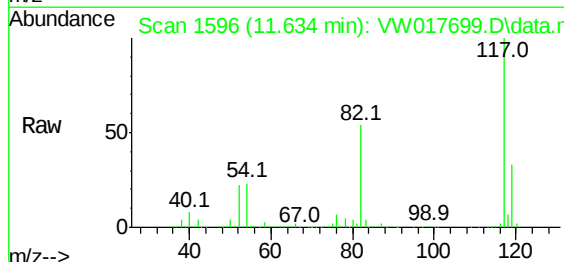
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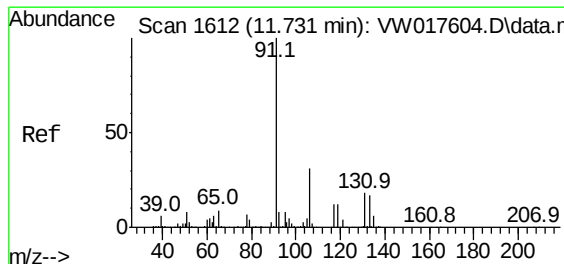
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|-----------|-------|-------|-------|
| Tgt Ion:  | 95    | Resp: | 55187 |
| Ion Ratio | Lower | Upper |       |
| 95        | 100   |       |       |
| 174       | 73.7  | 0.0   | 180.6 |
| 176       | 68.2  | 0.0   | 177.6 |



#6386 (-)  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.634 min Scan# 1596  
Delta R.T. -0.000 min  
Lab File: Vw017699.D  
Acq: 22 Dec 2020 12:21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 136193 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 54.0  | 40.7  | 61.1   |
| 119       | 32.7  | 25.0  | 37.4   |

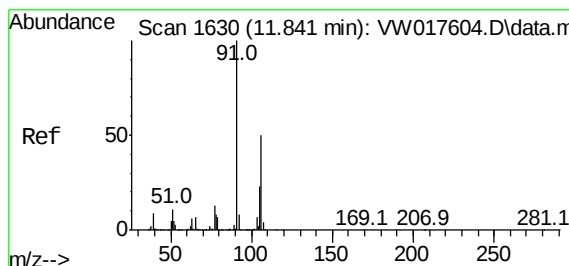
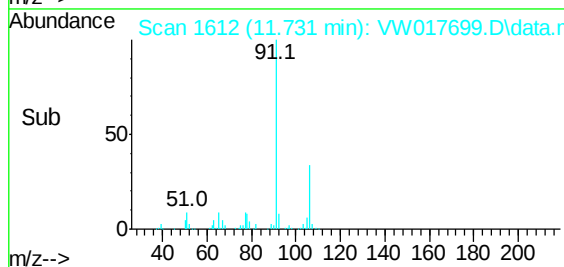
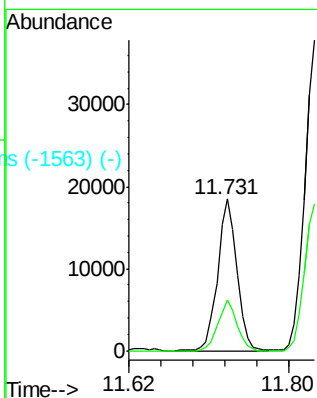
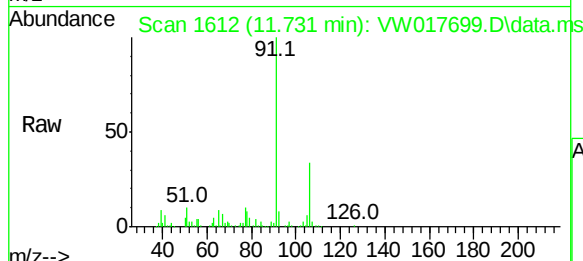




#67  
Ethyl Benzene  
Concen: 5.28 ug/l  
RT: 11.731 min Scan# 1612  
Delta R.T. 0.000 min  
Lab File: VW017699.D  
Acq: 22 Dec 2020 12:21

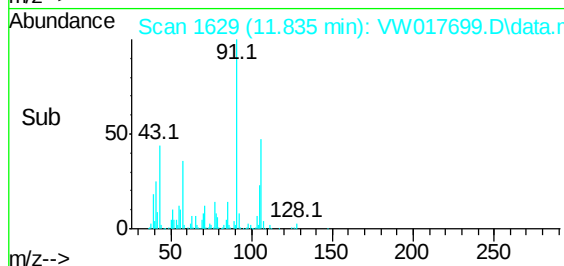
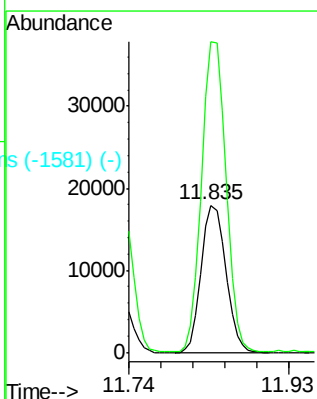
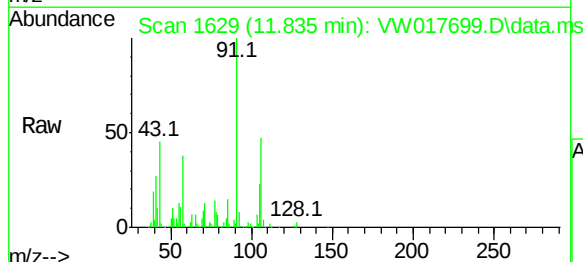
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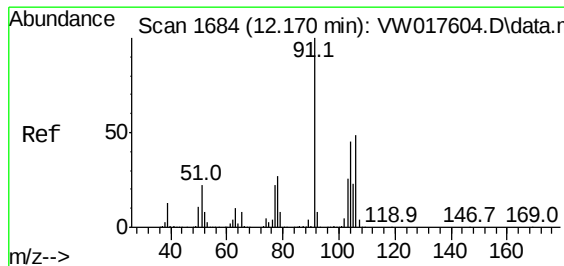
Tgt Ion: 91 Resp: 28745  
Ion Ratio Lower Upper  
91 100  
106 33.6 25.9 38.9



#68  
m/p-Xylenes  
Concen: 16.94 ug/l  
RT: 11.835 min Scan# 1629  
Delta R.T. -0.006 min  
Lab File: VW017699.D  
Acq: 22 Dec 2020 12:21

Tgt Ion: 106 Resp: 35153  
Ion Ratio Lower Upper  
106 100  
91 208.1 157.4 236.0

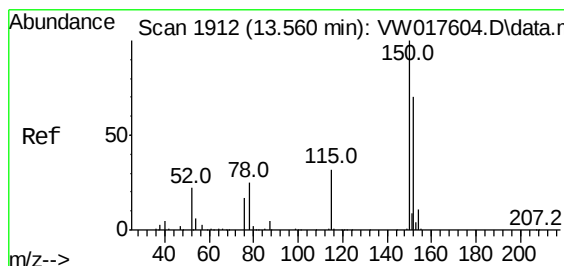
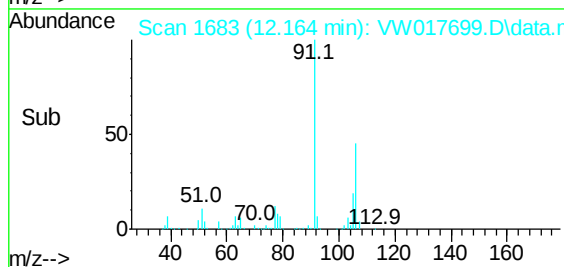
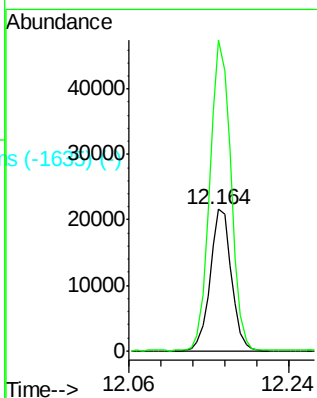
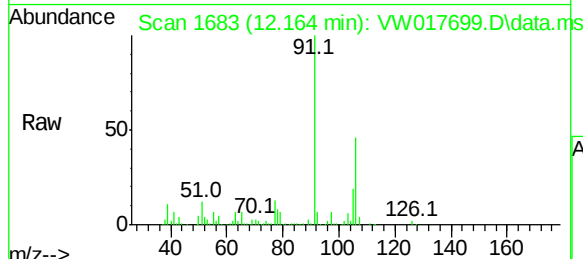




#6875 (-)  
o-Xylene  
Concen: 18.11 ug/l  
RT: 12.164 min Scan# 1683  
Delta R.T. -0.006 min  
Lab File: VW017699.D  
Acq: 22 Dec 2020 12:21

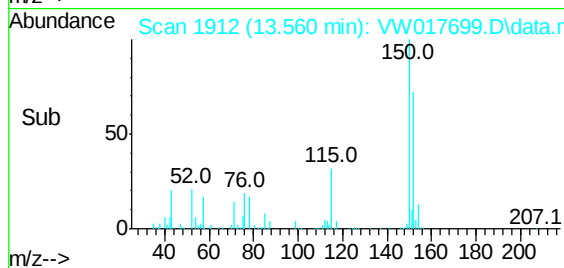
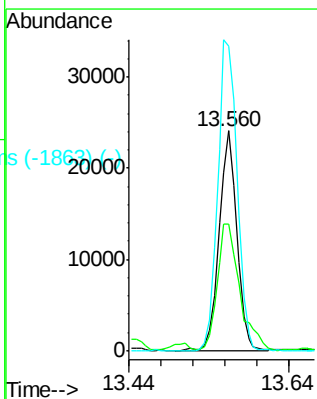
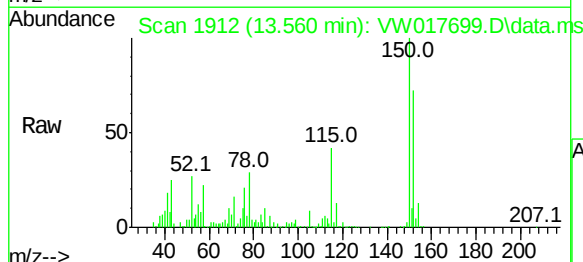
Instrument :  
MSVOA\_W  
ClientSampleId :  
CHRT-26878RE

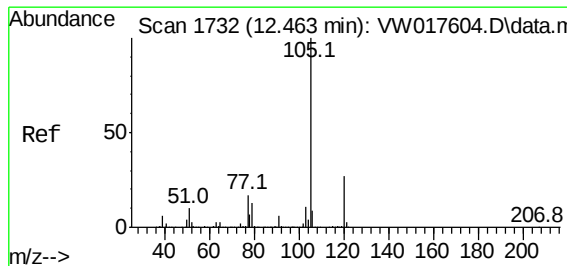
Tgt Ion:106 Resp: 35433  
Ion Ratio Lower Upper  
106 100  
91 220.3 103.6 310.9



#7204 (-)  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.560 min Scan# 1912  
Delta R.T. 0.000 min  
Lab File: VW017699.D  
Acq: 22 Dec 2020 12:21

Tgt Ion:152 Resp: 36704  
Ion Ratio Lower Upper  
152 100  
115 73.7 27.9 83.7  
150 155.3 0.0 344.0

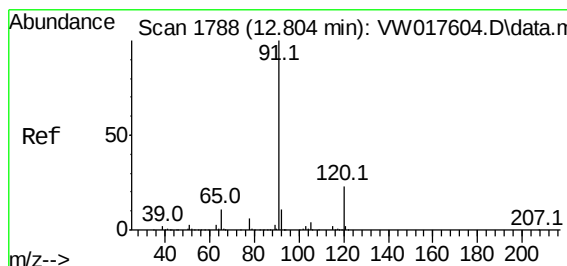
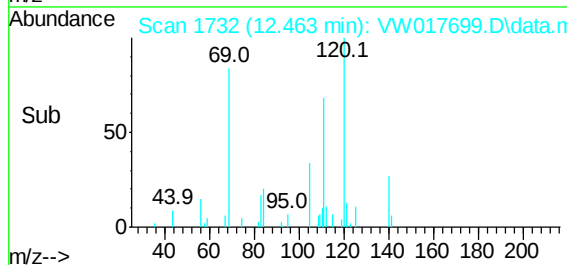
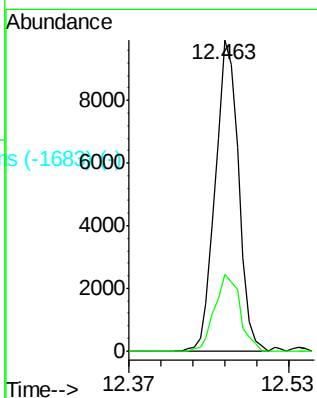
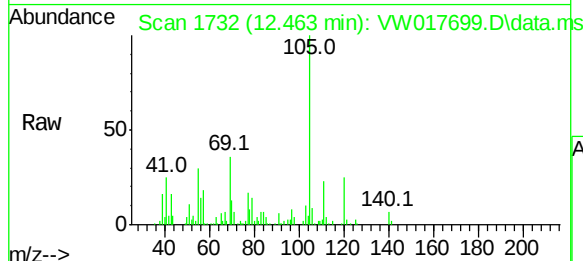




#1724 (-)  
Isopropylbenzene  
Concen: 5.40 ug/l  
RT: 12.463 min Scan# 1732  
Delta R.T. 0.000 min  
Lab File: VW017699.D  
Acq: 22 Dec 2020 12:21

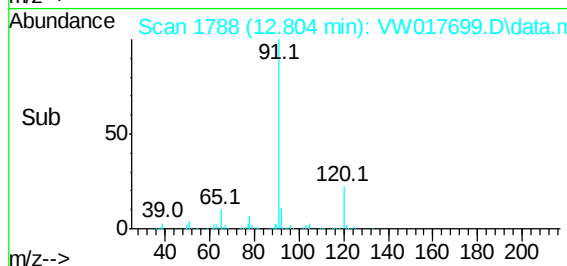
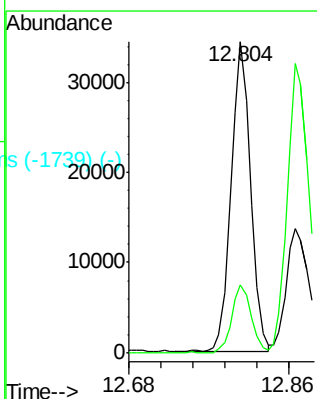
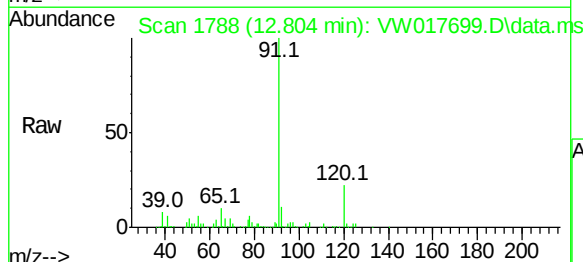
Instrument :  
MSVOA\_W  
ClientSampleId :  
CHRT-26878RE

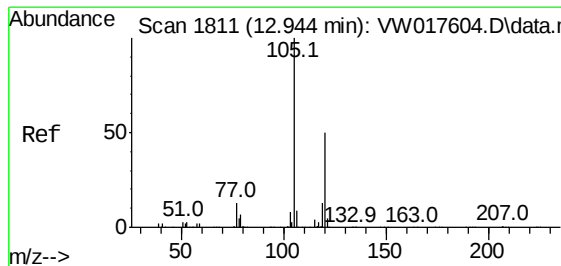
Tgt Ion:105 Resp: 15680  
Ion Ratio Lower Upper  
105 100  
120 26.7 13.6 40.7



#1782 (-)  
n-propylbenzene  
Concen: 14.88 ug/l  
RT: 12.804 min Scan# 1788  
Delta R.T. 0.000 min  
Lab File: VW017699.D  
Acq: 22 Dec 2020 12:21

Tgt Ion: 91 Resp: 51268  
Ion Ratio Lower Upper  
91 100  
120 21.9 12.0 36.1

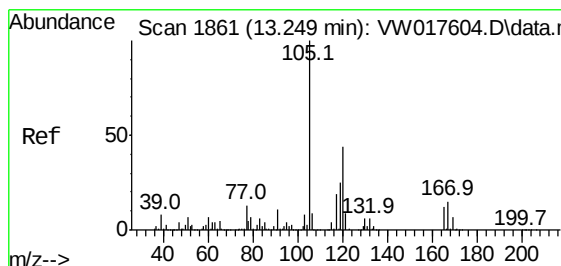
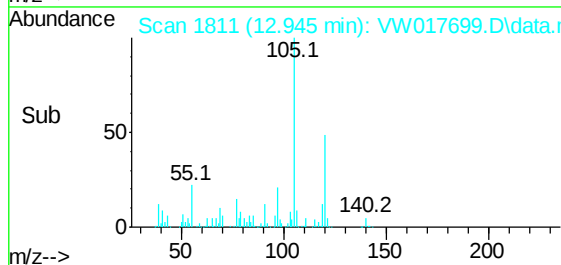
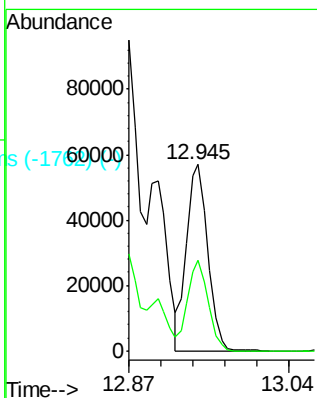
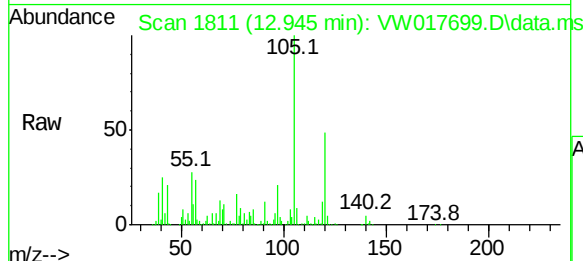




#890 (-)  
 1,3,5-Trimethylbenzene  
 Concen: 35.84 ug/l  
 RT: 12.945 min Scan# 1811  
 Delta R.T. 0.001 min  
 Lab File: Vw017699.D  
 Acq: 22 Dec 2020 12:21

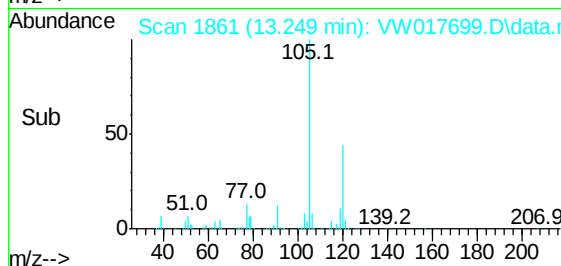
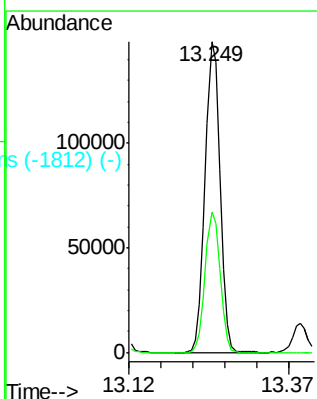
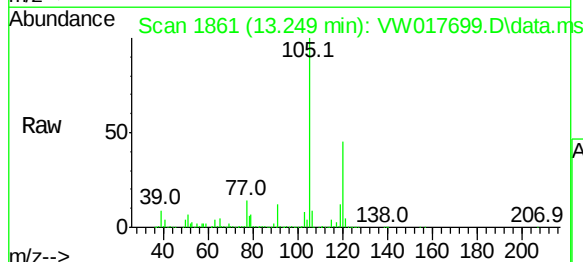
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 CHRT-26878RE

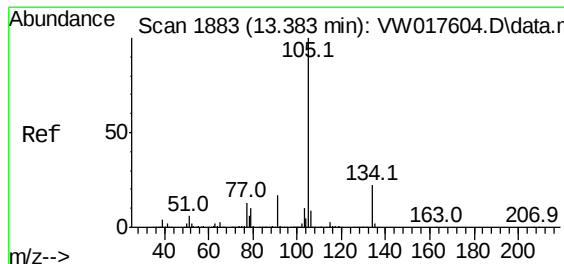
Tgt Ion:105 Resp: 88044  
 Ion Ratio Lower Upper  
 105 100  
 120 47.4 24.9 74.8



#894 (-)  
 1,2,4-Trimethylbenzene  
 Concen: 95.27 ug/l  
 RT: 13.249 min Scan# 1861  
 Delta R.T. 0.000 min  
 Lab File: Vw017699.D  
 Acq: 22 Dec 2020 12:21

Tgt Ion:105 Resp: 230491  
 Ion Ratio Lower Upper  
 105 100  
 120 45.5 23.4 70.0

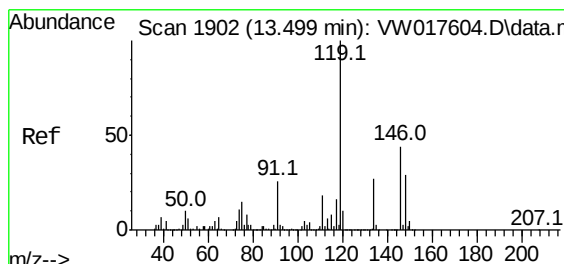
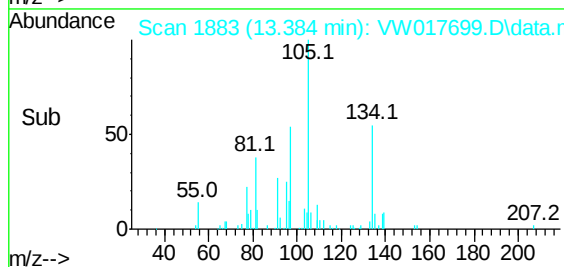
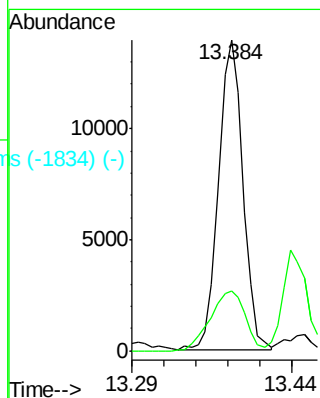
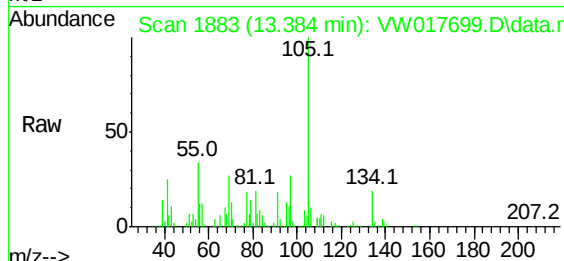




sec-Butylbenzene  
Concen: 7.35 ug/l  
RT: 13.384 min Scan# 1883  
Delta R.T. 0.001 min  
Lab File: VW017699.D  
Acq: 22 Dec 2020 12:21

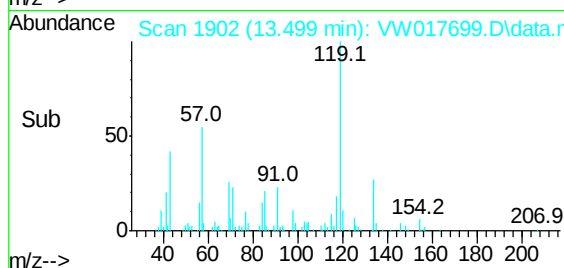
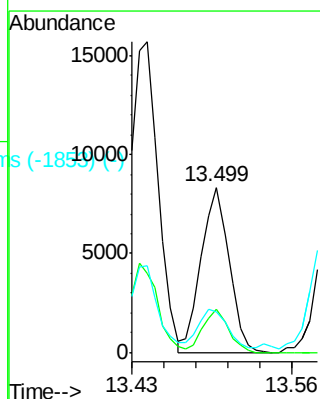
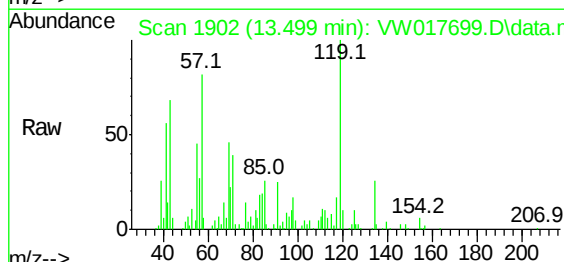
Instrument :  
MSVOA\_W  
ClientSampleId :  
CHRT-26878RE

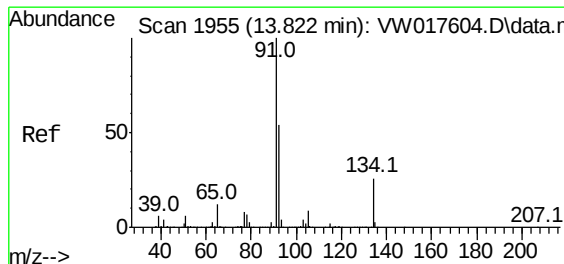
Tgt Ion:105 Resp: 21684  
Ion Ratio Lower Upper  
105 100  
134 27.9 10.6 31.8



p-Isopropyltoluene  
Concen: 4.71 ug/l  
RT: 13.499 min Scan# 1902  
Delta R.T. 0.000 min  
Lab File: VW017699.D  
Acq: 22 Dec 2020 12:21

Tgt Ion:119 Resp: 12545  
Ion Ratio Lower Upper  
119 100  
134 24.0 13.8 41.3  
91 23.6 11.3 33.9

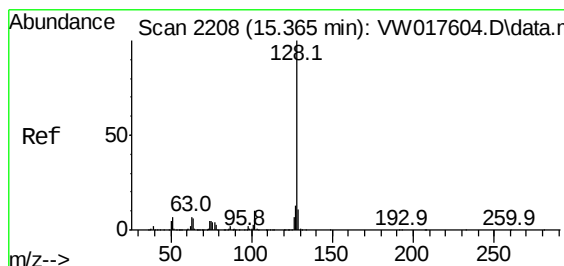
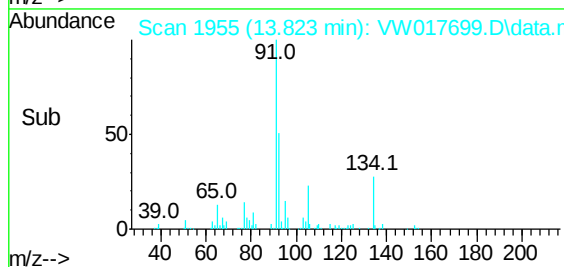
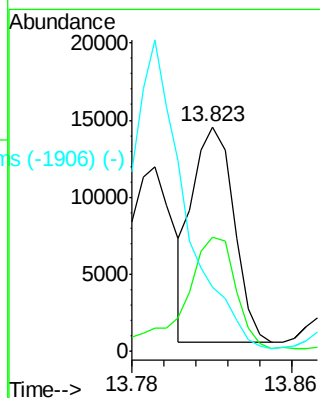
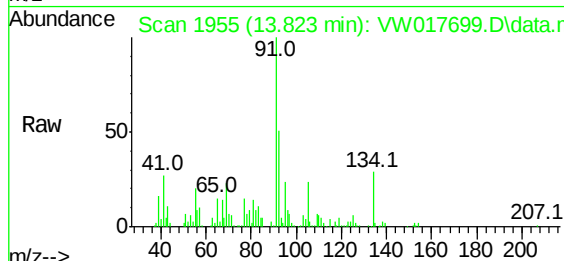




#99 (-)  
n-Butylbenzene  
Concen: 7.97 ug/l  
RT: 13.823 min Scan# 1955  
Delta R.T. 0.001 min  
Lab File: VW017699.D  
Acq: 22 Dec 2020 12:21

Instrument :  
MSVOA\_W  
ClientSampleId :  
CHRT-26878RE

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 20870 |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 62.3  | 26.6  | 79.7  |
| 134      | 0.0   | 14.3  | 42.9# |



#91 (-)  
Naphthalene  
Concen: 7.41 ug/l  
RT: 15.365 min Scan# 2208  
Delta R.T. -0.000 min  
Lab File: VW017699.D  
Acq: 22 Dec 2020 12:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 10673 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 16.1  | 10.4  | 15.6# |
| 129      | 11.3  | 8.6   | 12.8  |

