

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102819\  
 Data File : VW013777.D  
 Acq On : 28 Oct 2019 19:51  
 Operator : SY/VA  
 Sample : K5563-02  
 Misc : 6.02G/5ML/MSVOA W/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Oct 29 11:48:36 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W102319S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 23 14:11:46 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 231280   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 336673   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 254384   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 92718    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 101061   | 58.25 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 116.50% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 102519   | 54.80 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.60% |          |
| 50) Toluene-d8              | 10.32 | 98   | 378384   | 49.64 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.28%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 97670    | 37.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 75.68%  |          |

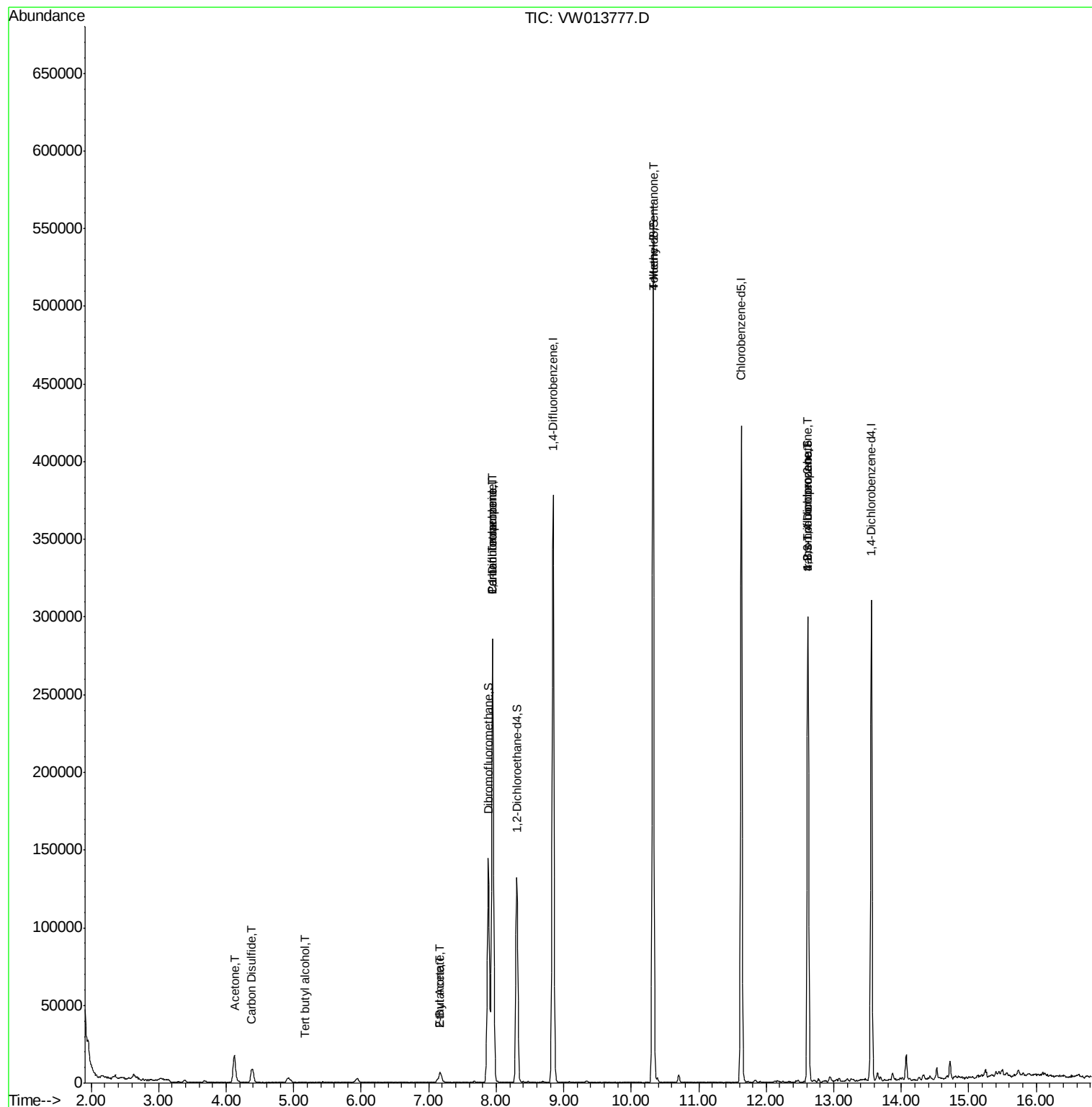
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.17  | 59   | 268      | 2.588     | ug/l # | 71     |
| 16) Acetone                    | 4.12  | 43   | 30836    | 83.823    | ug/l   | 95     |
| 17) Carbon Disulfide           | 4.39  | 76   | 19041    | 3.196     | ug/l # | 94     |
| 20) Methylene Chloride         | 4.93  | 84   | 2833     | Below Cal | #      | 60     |
| 25) 2-Butanone                 | 7.17  | 43   | 10511    | 19.874    | ug/l # | 86     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 15072    | 4.807     | ug/l # | 48     |
| 37) Ethyl Acetate              | 7.17  | 43   | 10511    | 8.757     | ug/l # | 68     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 19512    | 6.911     | ug/l # | 14     |
| 51) 4-Methyl-2-Pentanone       | 10.32 | 43   | 1626     | 1.424     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 45770    | 68.740    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 45770    | 129.909   | ug/l # | 14     |

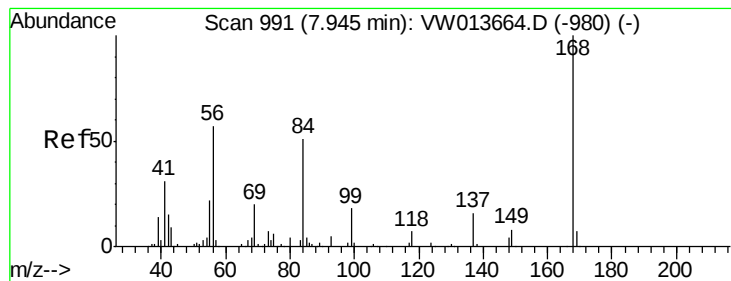
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Oct 29 11:48:36 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W102319S.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 23 14:11:46 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW013777.D

Acq: 28 Oct 2019 19:51

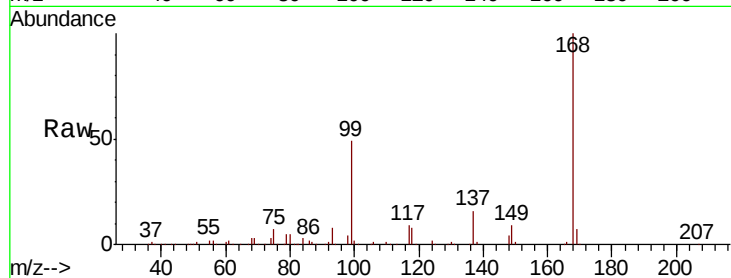
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:168 Resp: 231280

Ion Ratio Lower Upper

168 100

99 49.5 39.0 58.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

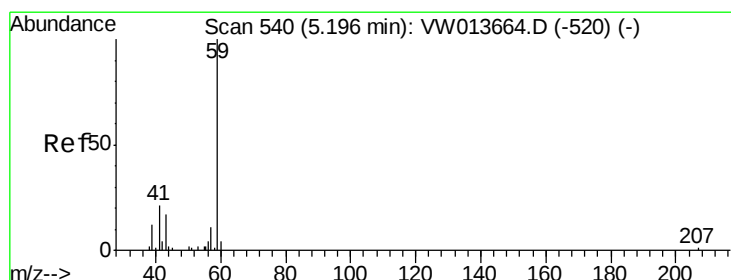
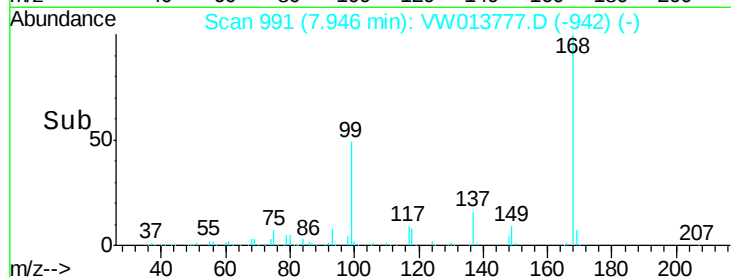
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.588 ug/l

RT: 5.17 min Scan# 535

Delta R.T. -0.03 min

Lab File: VW013777.D

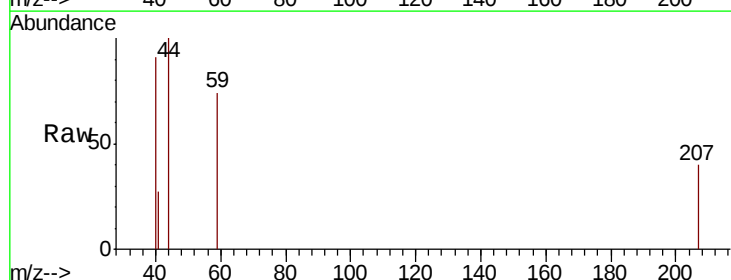
Acq: 28 Oct 2019 19:51

Tgt Ion: 59 Resp: 268

Ion Ratio Lower Upper

59 100

57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.17

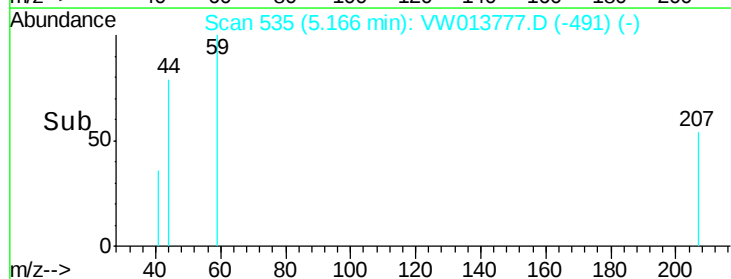
150

100

50

0

Time-->

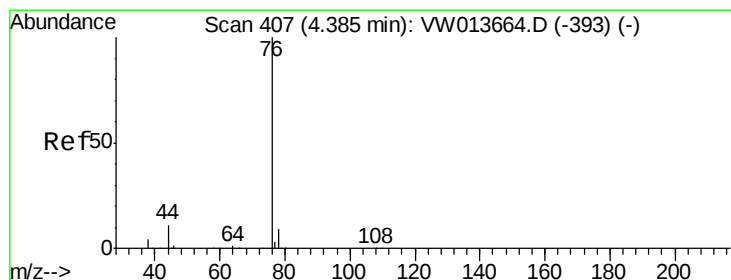
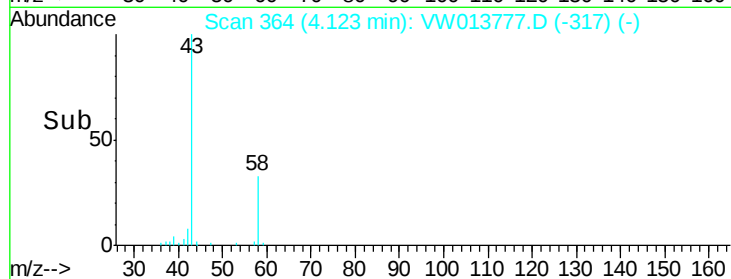
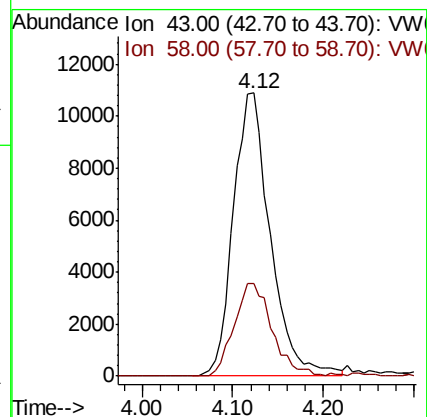
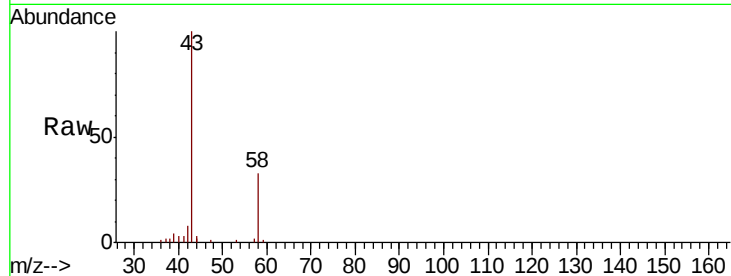




#16  
Acetone  
Concen: 83.823 ug/l  
RT: 4.12 min Scan# 364  
Delta R.T. -0.01 min  
Lab File: VW013777.D  
Acq: 28 Oct 2019 19:51

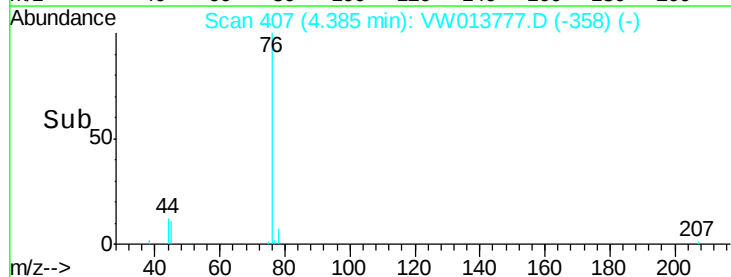
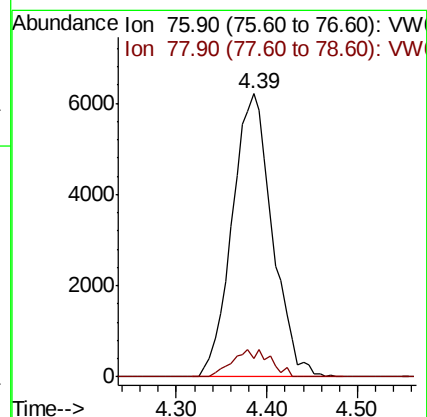
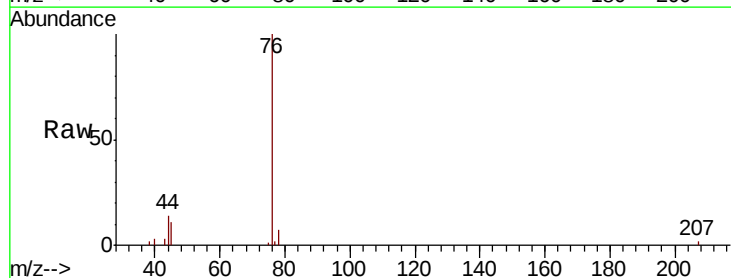
Instrument :  
MSVOA\_W  
ClientSampled :

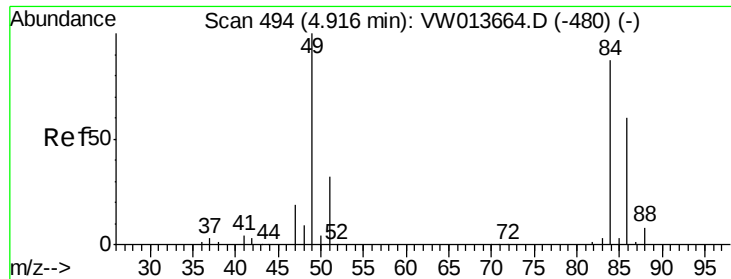
Tot Ion: 43 Resp: 30836  
Ion Ratio Lower Upper  
43 100  
58 32.7 24.1 36.1



#17  
Carbon Disulfide  
Concen: 3.196 ug/l  
RT: 4.39 min Scan# 407  
Delta R.T. 0.00 min  
Lab File: VW013777.D  
Acq: 28 Oct 2019 19:51

Tgt Ion: 76 Resp: 19041  
Ion Ratio Lower Upper  
76 100  
78 6.6 7.0 10.6#

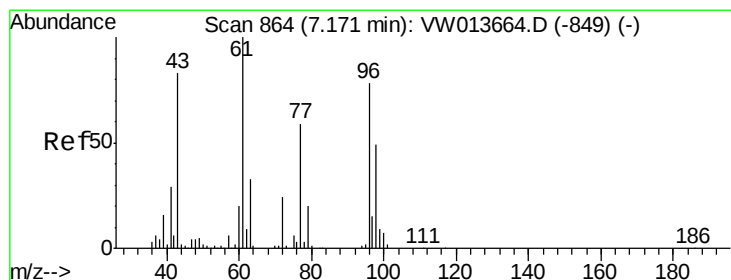
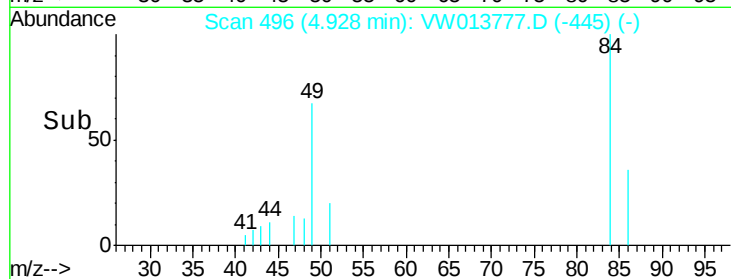
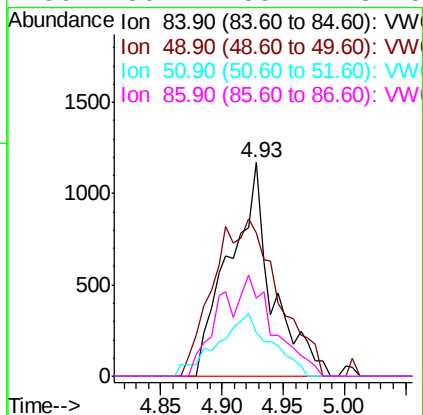
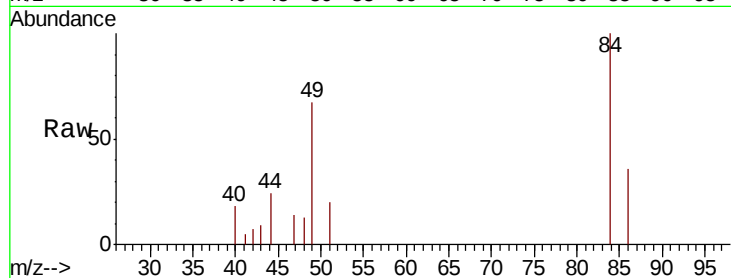




#20  
Methvlene Chloride  
Concen: Below Cal  
RT: 4.93 min Scan# 496  
Delta R.T. 0.01 min  
Lab File: VW013777.D  
Acq: 28 Oct 2019 19:51

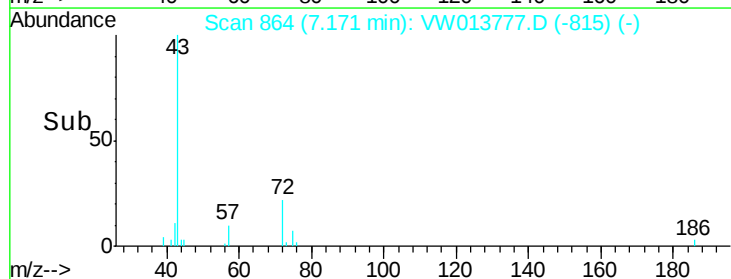
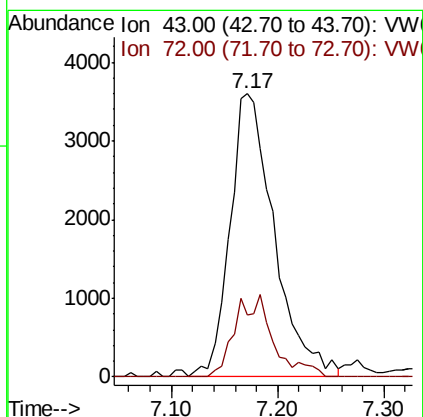
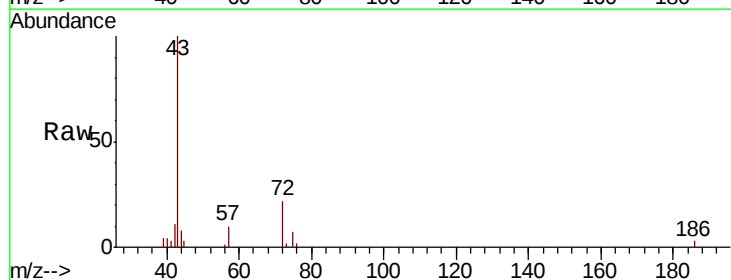
Instrument :  
MSVOA\_W  
ClientSampled :

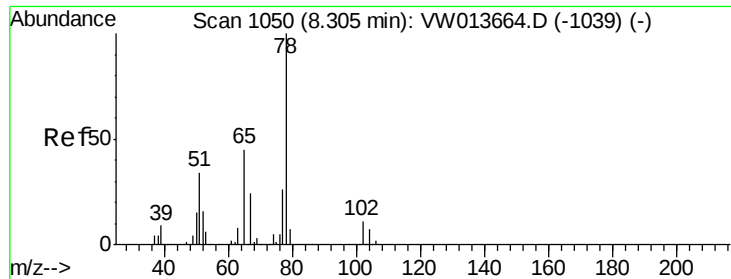
Tot Ion: 84 Resp: 2833  
Ion Ratio Lower Upper  
84 100  
49 67.3 91.8 137.6#  
51 20.4 29.8 44.6#  
86 36.4 55.2 82.8#



#25  
2-Butanone  
Concen: 19.874 ug/l  
RT: 7.17 min Scan# 864  
Delta R.T. 0.00 min  
Lab File: VW013777.D  
Acq: 28 Oct 2019 19:51

Tgt Ion: 43 Resp: 10511  
Ion Ratio Lower Upper  
43 100  
72 21.8 23.6 35.4#

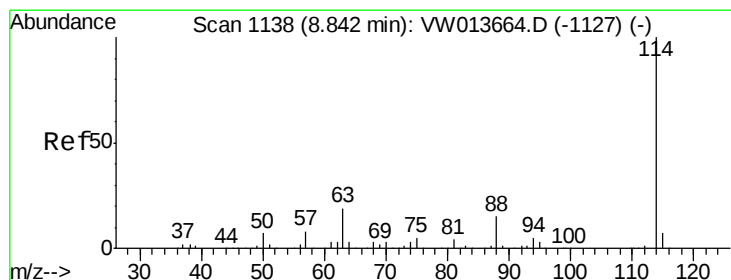
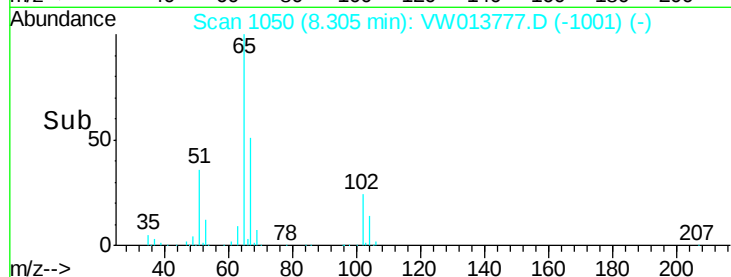
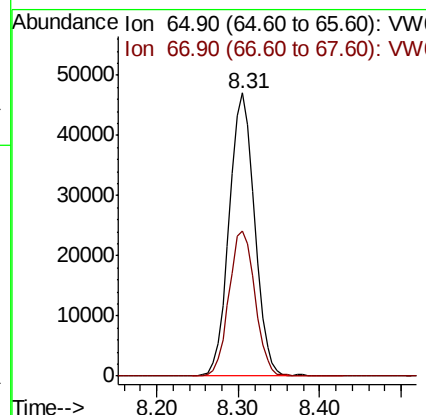
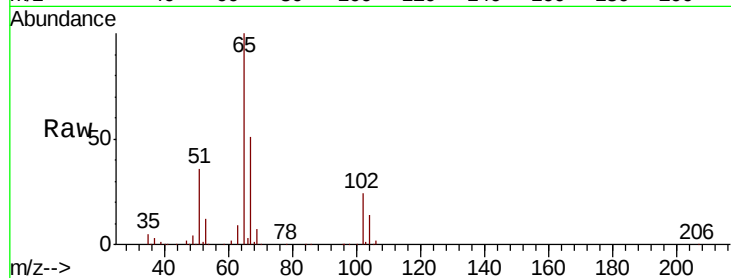




#33  
 1,2-Dichloroethane-d4  
 Concen: 58.249 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. 0.00 min  
 Lab File: VW013777.D  
 Acq: 28 Oct 2019 19:51

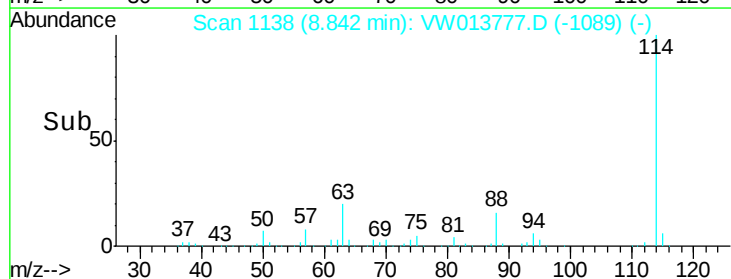
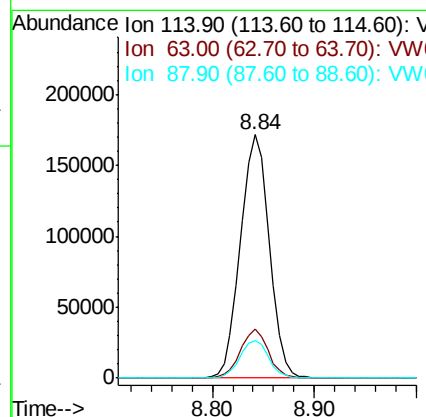
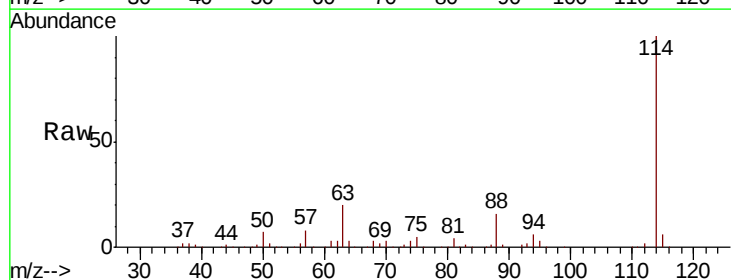
Instrument :  
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 ClientSampleId :

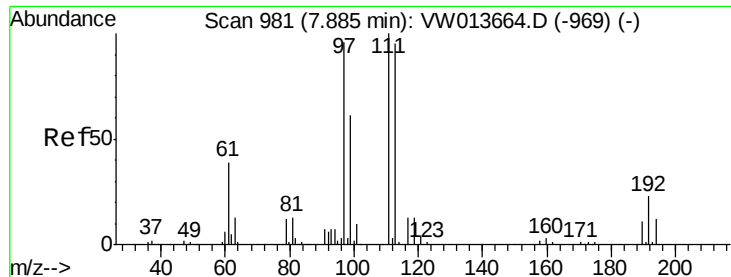
Tot Ion: 65 Resp: 101061  
 Ion Ratio Lower Upper  
 65 100  
 67 52.3 0.0 109.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW013777.D  
 Acq: 28 Oct 2019 19:51

Tgt Ion: 114 Resp: 336673  
 Ion Ratio Lower Upper  
 114 100  
 63 20.0 0.0 37.6  
 88 15.7 0.0 30.2

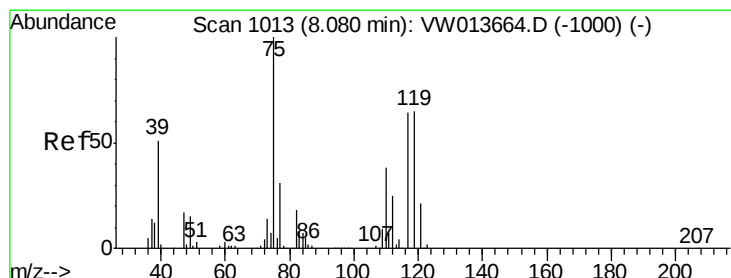
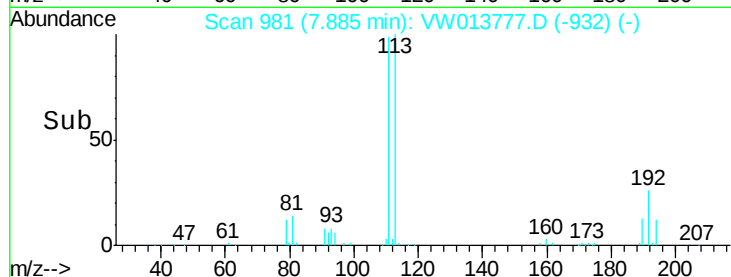
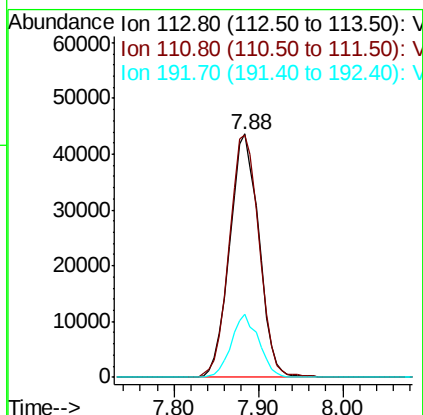
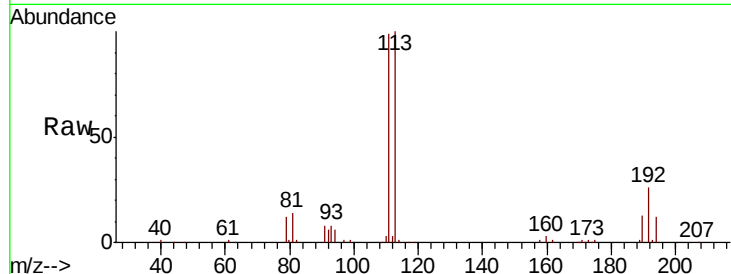




#35  
 Dibromofluoromethane  
 Concen: 54.801 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. 0.00 min  
 Lab File: VW013777.D  
 Acq: 28 Oct 2019 19:51

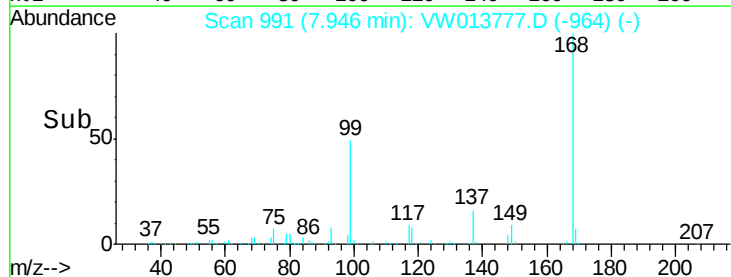
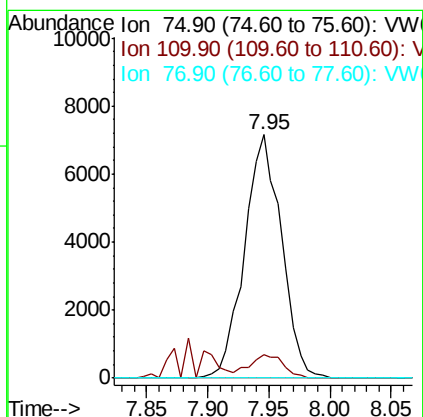
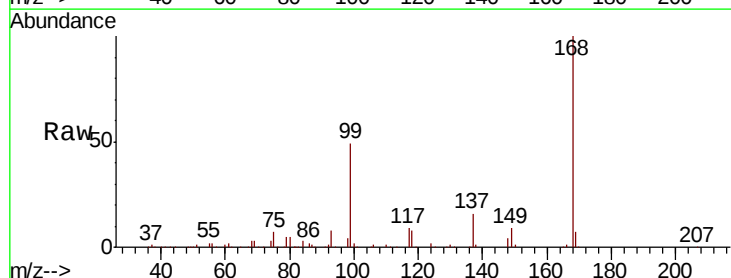
Instrument :  
 MSVOA\_W  
 ClientSampled :

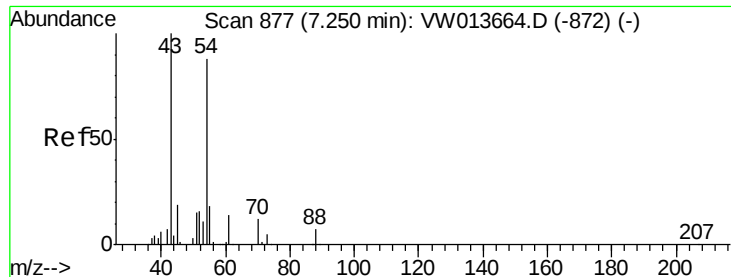
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.6 | 83.0  | 124.6 |
| 192     | 24.3  | 19.4  | 29.2  |



#36  
 1,1-Dichloropropene  
 Concen: 4.807 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW013777.D  
 Acq: 28 Oct 2019 19:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.7   | 18.7  | 56.1# |
| 77      | 0.0   | 25.4  | 38.0# |

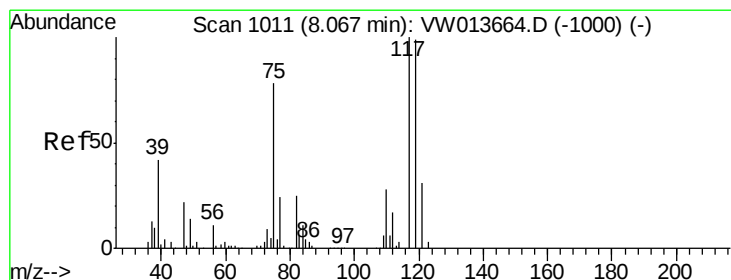
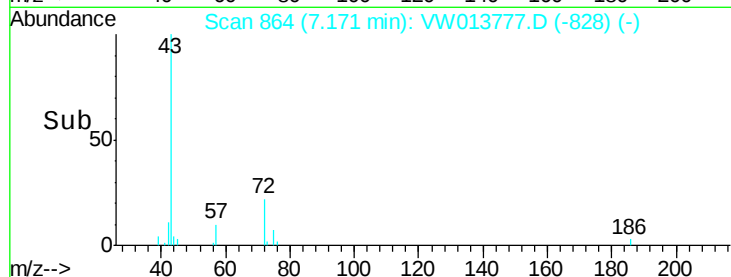
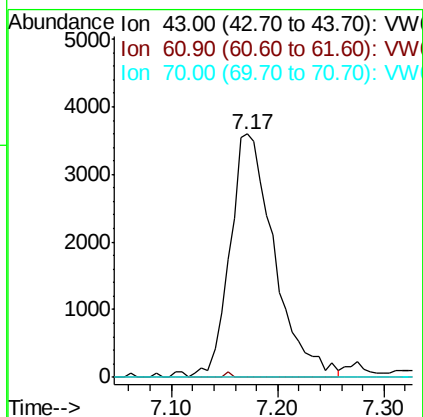
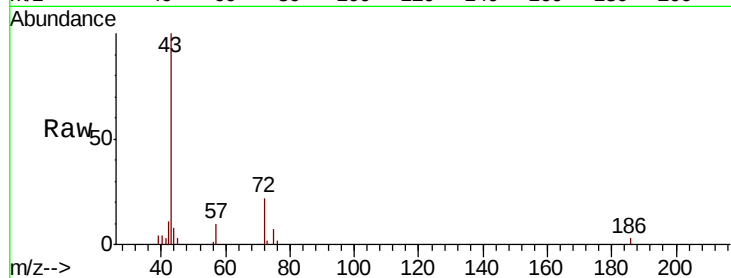




#37  
Ethyl Acetate  
Concen: 8.757 ug/l  
RT: 7.17 min Scan# 864  
Delta R.T. -0.08 min  
Lab File: VW013777.D  
Acq: 28 Oct 2019 19:51

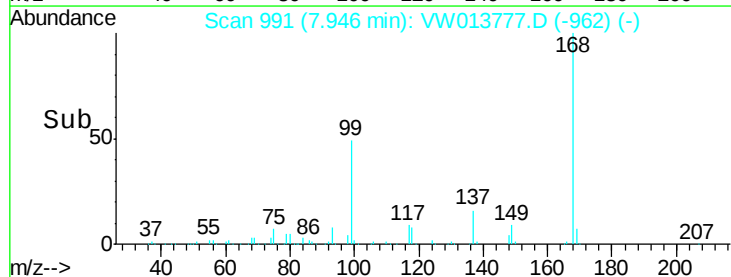
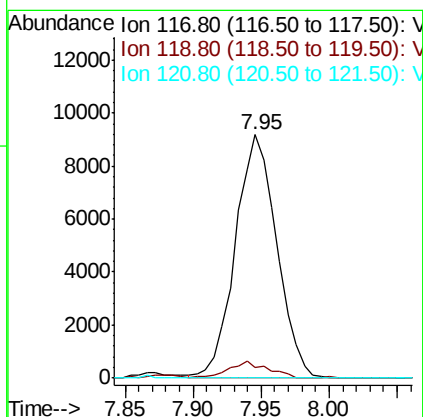
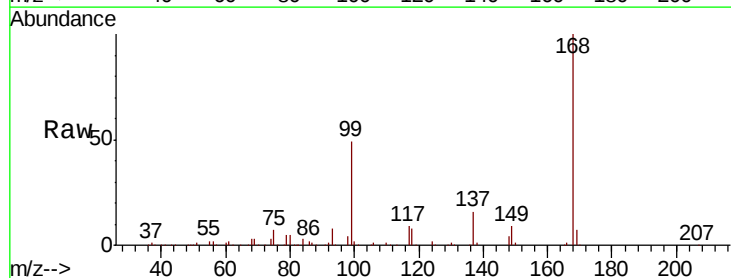
Instrument :  
MSVOA\_W  
ClientSampleId :

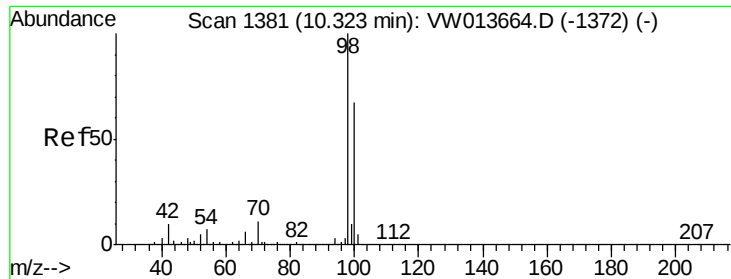
Tot Ion: 43 Resp: 10511  
Ion Ratio Lower Upper  
43 100  
61 0.3 11.7 17.5#  
70 0.0 8.8 13.2#



#38  
Carbon Tetrachloride  
Concen: 6.911 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.12 min  
Lab File: VW013777.D  
Acq: 28 Oct 2019 19:51

Tgt Ion: 117 Resp: 19512  
Ion Ratio Lower Upper  
117 100  
119 4.3 79.0 118.4#  
121 0.0 24.5 36.7#





#50

Toluene-d8

Concen: 49.638 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW013777.D

Acq: 28 Oct 2019 19:51

Instrument :

MSVOA\_W

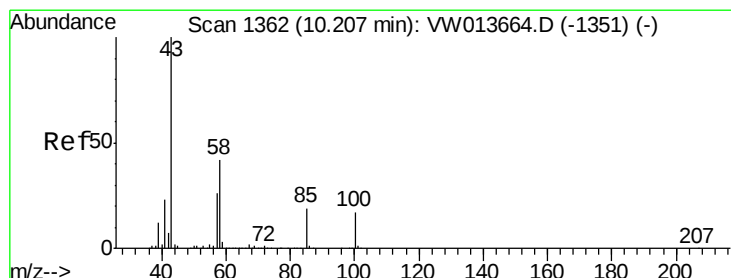
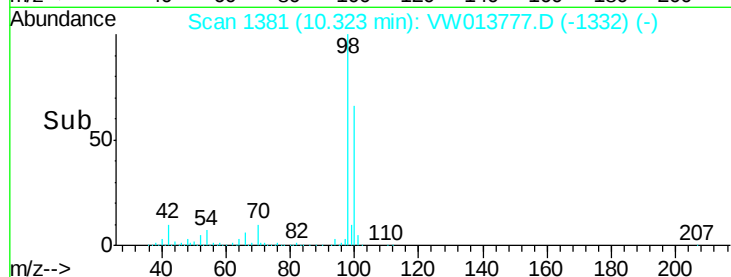
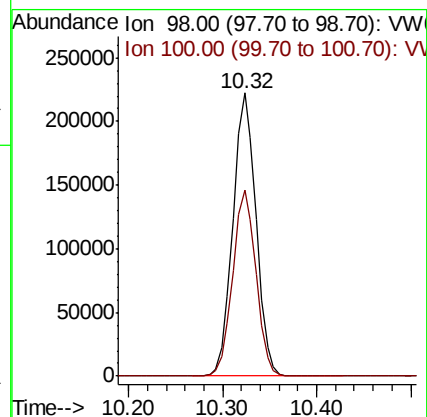
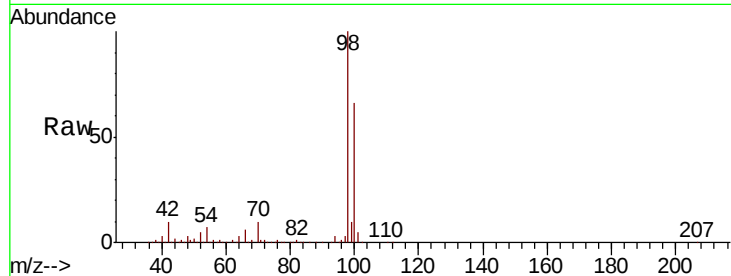
ClientSampled :

Tot Ion: 98 Resp: 378384

Ion Ratio Lower Upper

98 100

100 66.1 53.4 80.0



#51

4-Methyl-2-Pentanone

Concen: 1.424 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.12 min

Lab File: VW013777.D

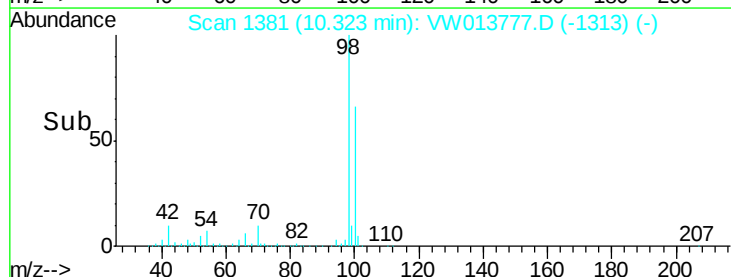
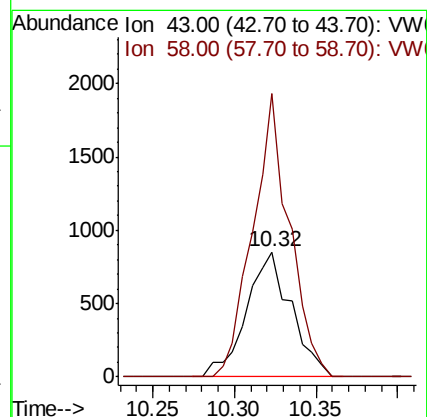
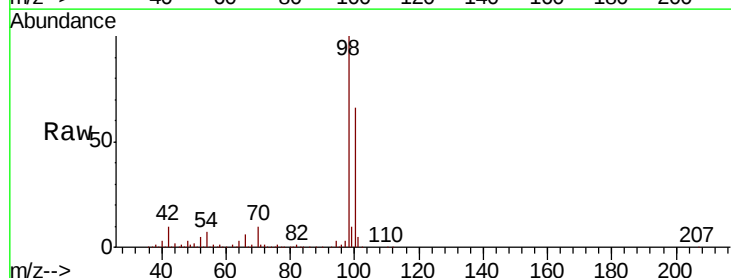
Acq: 28 Oct 2019 19:51

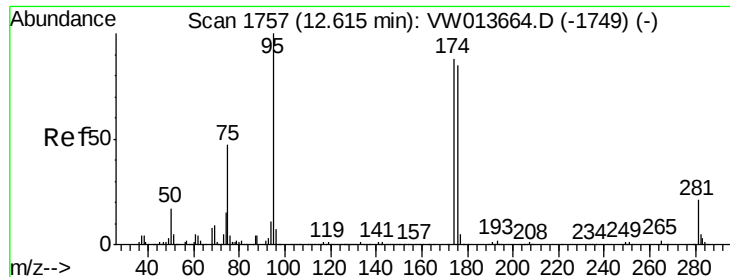
Tgt Ion: 43 Resp: 1626

Ion Ratio Lower Upper

43 100

58 186.2 32.6 49.0#

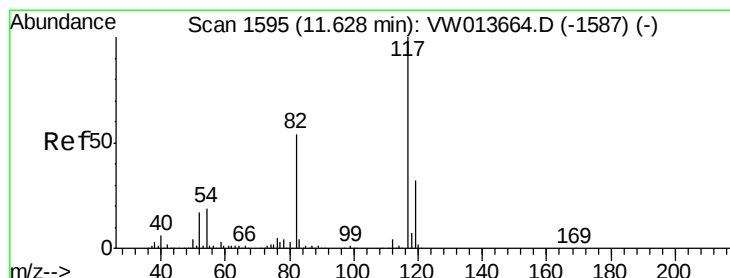
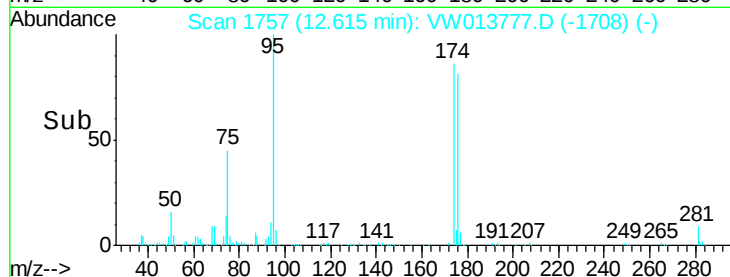
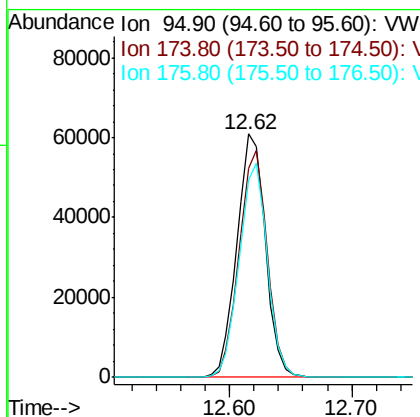
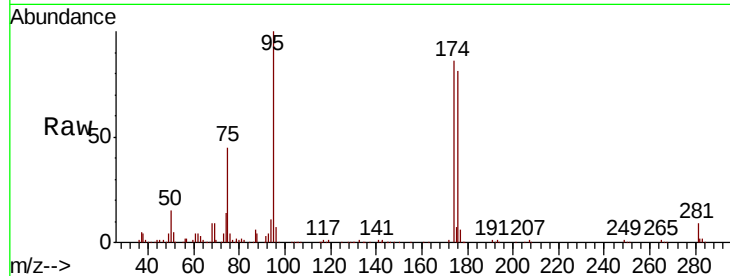




#62  
4-Bromofluorobenzene  
Concen: 37.840 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. 0.00 min  
Lab File: VW013777.D  
Acq: 28 Oct 2019 19:51

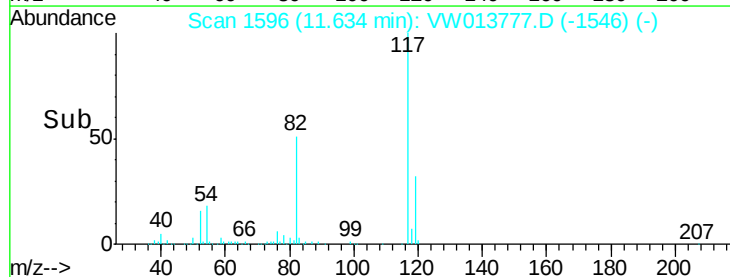
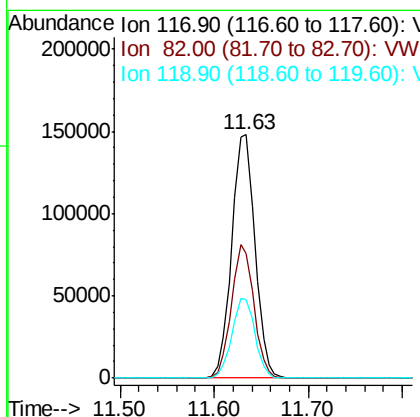
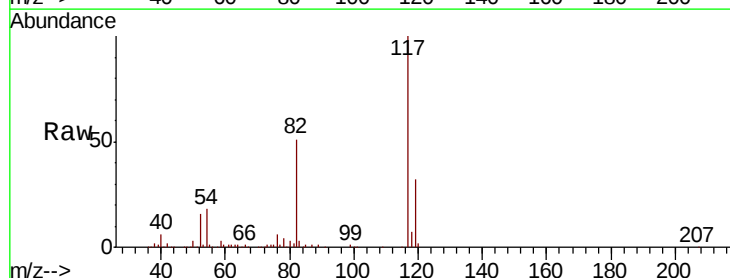
Instrument :  
MSVOA\_W  
ClientSampleId :

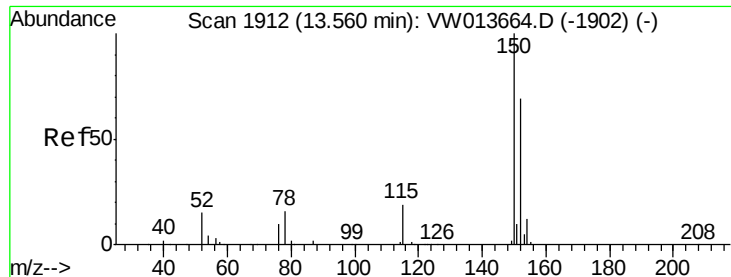
Tot Ion: 95 Resp: 97670  
Ion Ratio Lower Upper  
95 100  
174 92.8 0.0 183.6  
176 87.8 0.0 178.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.01 min  
Lab File: VW013777.D  
Acq: 28 Oct 2019 19:51

Tgt Ion: 117 Resp: 254384  
Ion Ratio Lower Upper  
117 100  
82 51.2 43.6 65.4  
119 32.0 25.4 38.2



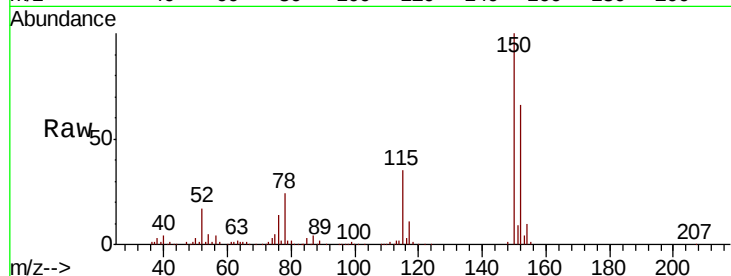


#72

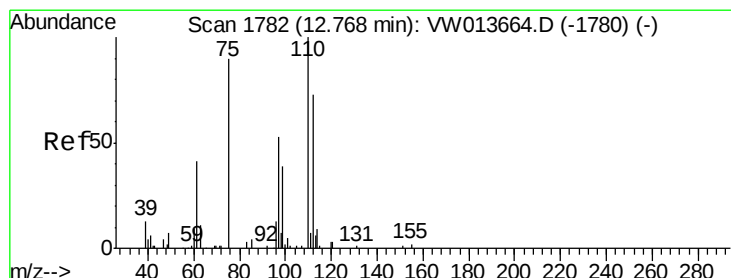
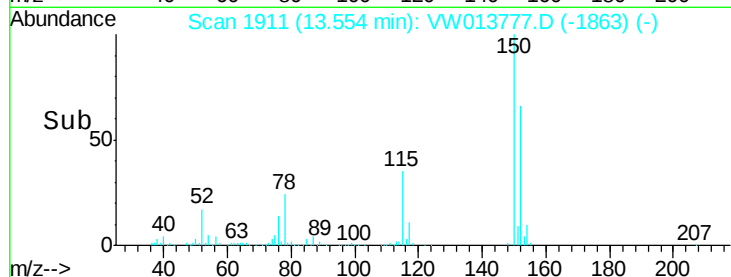
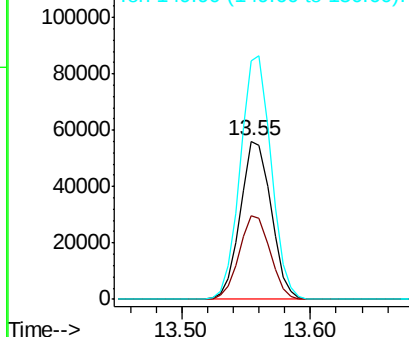
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.55 min Scan# 1911  
Delta R.T. -0.01 min  
Lab File: VW013777.D  
Acq: 28 Oct 2019 19:51

Instrument :  
MSVOA\_W  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 53.0  | 27.4  | 82.2  |
| 150     | 154.3 | 0.0   | 345.4 |



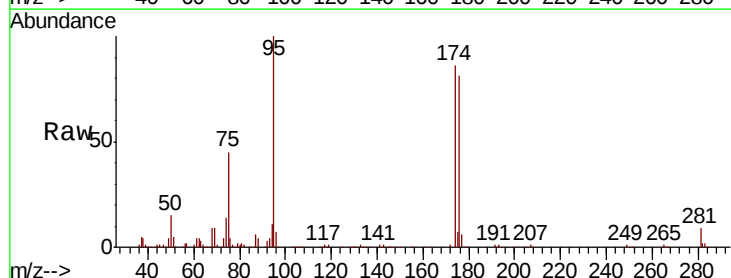
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



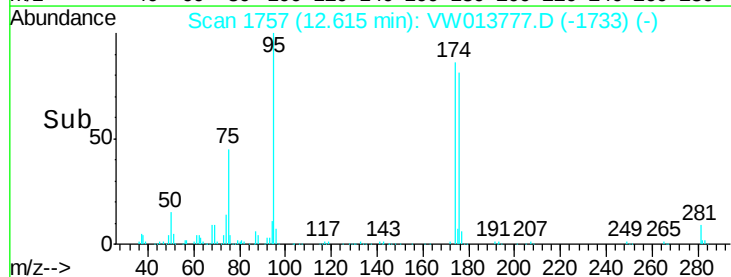
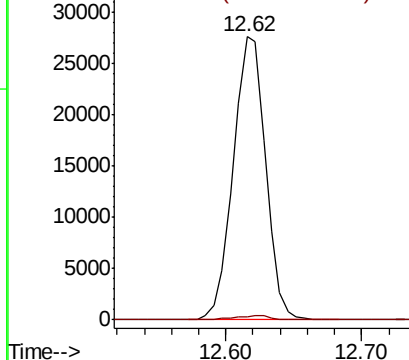
#76

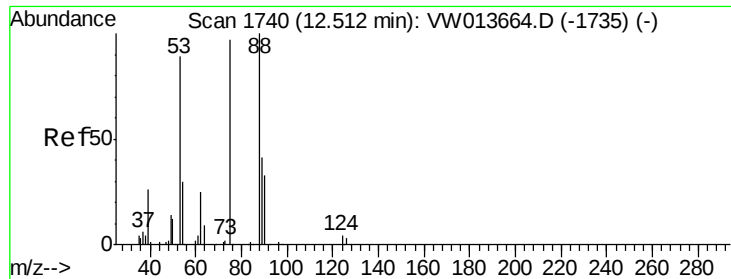
1,2,3-Trichloropropane  
Concen: 68.740 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. -0.15 min  
Lab File: VW013777.D  
Acq: 28 Oct 2019 19:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.6   | 0.0   | 0.0#  |



Abundance Ion 74.90 (74.60 to 75.60): VW  
Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 129.909 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013777.D

Acq: 28 Oct 2019 19:51

Instrument :

MSVOA\_W

ClientSampleId :

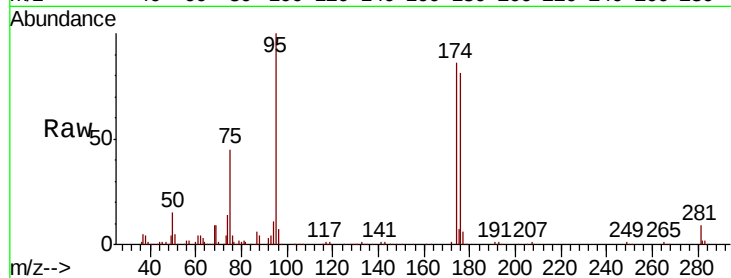
Tot Ion: 75 Resp: 45770

Ion Ratio Lower Upper

75 100

53 0.1 71.7 107.5#

89 0.0 35.8 53.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

