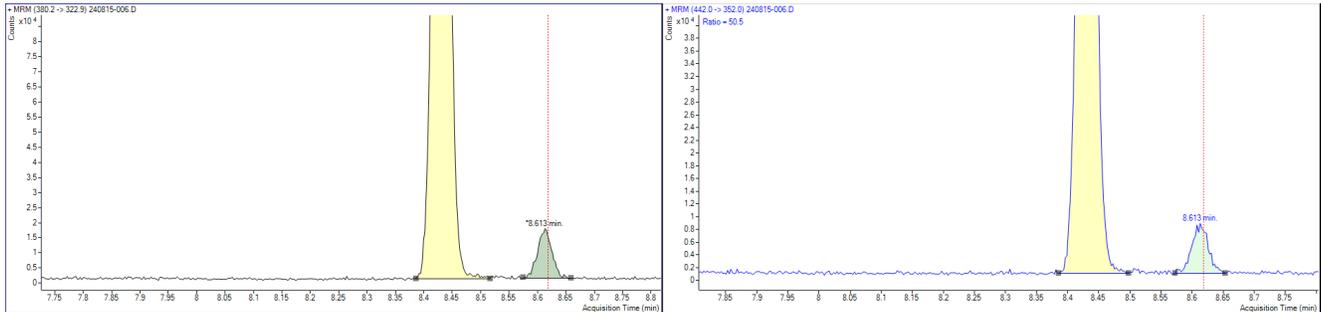


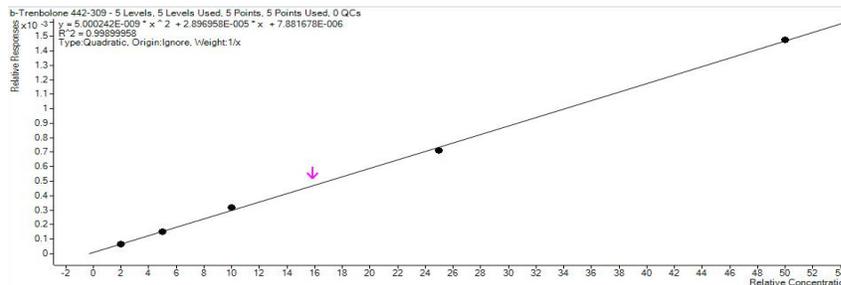
Steroids - 17 β -Trenbolone:

Synthetic androgens are a significant concern in the environment as they have demonstrated endocrine disrupting potential to sensitive species of fish - even at very low ppt concentrations. One particularly potent anabolic steroid that is of particular concern due to its widespread use is 17 β -Trenbolone. It is estimated that 90% of beef cattle in the USA are fed growth implants and most of these contain trenbolone acetate which is metabolized to 17 β -Trenbolone.

Envirolab was asked by the same University to develop a method for trace level analysis of this steroid in water. 17 β -Trenbolone was spiked, extracted from water, derivatised and then run by GCMSMS. A **detection limit of 2ng/L was achieved from a 100mL water sample.**



Key: Shown Key: Above is a fully extracted β -Trenbolone standard at just 5ng/L. The first peak is the surrogate used. The β -Trenbolone is the smaller green peak. Shown below is a fully extracted calibration curve for β -Trenbolone from 2-50ng/L.



These are just examples of two recent projects. If there are compounds of particular interest to you and your team in your upcoming projects, we would be pleased to discuss these further with you and provide technical support for your investigations.

FOR FURTHER INFORMATION CONTACT
David Williams or Todd Lee at lab@mpl.com.au
(08) 9317 2505 or visit envirolab.com.au

Issued:-11th December 2015

ENVIROLAB GROUP SPECIALISES IN



Soil

- Contaminated Sites
- Waste



Water

- Ground & Surface
- Drinking & Saline
- Trade Waste



Air

- Indoor
- Workplace
- Emissions
- Ambient
- Soil gas
- Dust / DPM



Asbestos

- Building
- Soil
- Brake pads



SPOCAS

- Acid Sulphate Soil
- AMD

Sydney

Perth

Melbourne

Adelaide

Brisbane

Darwin

Envirolab Group
1300 424 344
envirolab.com.au



Great Chemistry. Great Service.