

## THCs extracted from Human Urine using Strata Screen C on GC/MS (TIC)

**Column:** Zebtron™ ZB-5MSi, GC Cap. Column 10 m x 0.18 mm x 0.18 µm, Ea

**Phase:** 5% Phenyl 95% Dimethylpolysiloxane

**Dimensions:** 10 meters x 0.18 mm x 0.18 µm

**Order No:** 7CD-G018-08

**Oven Profile:** 200 °C to 300 °C @ 20 °C/min

**Carrier Gas:** Constant Flow Helium, 0.7 mL/min

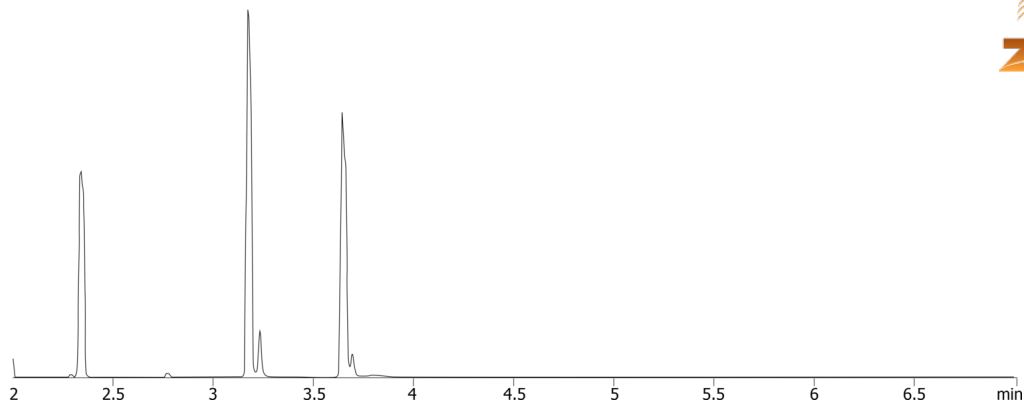
**Injection:** Split 10:1 1 µL @ 280°C

**Detection:** Mass Spectrometer (MS) (320°C)

23876



Products used in this application:



### ANALYTES:

- 1 Delta 9 THC  
Retention Time: 2.35 min
- 2 Delta 9 THC-D3
- 3 Hydroxy THC  
Retention Time: 3.19 min
- 4 Hydroxy THC-D3
- 5 Carboxy THC  
Retention Time: 3.65 min
- 6 Carboxy THC-D3



# Sample Preparation Details

for GC Application ID No.: 23876

## THCs extracted from Human Urine using Strata Screen C on GC/MS (TIC)

### PRODUCT DESCRIPTION:

Strata® Screen-C (55 µm, 70 Å), 200 mg / 3 mL, Tubes , 50/Pk

Order No.: 8B-S016-FBJ

### SOLID PHASE EXTRACTION (SPE) PROCEDURE:

**Note:** The solvent volumes shown below are for a 200 mg bed mass.

The solvent volumes will need to be adjusted for a smaller or larger bed mass.

#### Condition:

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#### Load:

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#### Wash:

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#### Dry:

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5 minutes 10 inches Hg

#### Elute:

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### Final Prep and Analysis:

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Add 50uL Ethyl Acete and 50uL BSTFA (with 1% TMCS), Mix/vortex, react 20 minutes @ 70C, remove from heat source and transfer to autosampler vial.

Inject: 1 µL on HPLC Mass Spectrometer (MS) @ amu (320°C)

ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1 Delta 9 THC	0				
2 Delta 9 THC-D3	0				
3 Hydroxy THC	0				
4 Hydroxy THC-D3	0				
5 Carboxy THC	0				
6 Carboxy THC-D3	0				

**Note:** This method is designed as a convenient starting point for further investigation and can be tailored to meet your extraction goals. Call your local Phenomenex Representative for assistance in method development and optimization techniques.

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