EtG Matrix Interference in Urine on Raptor EtG/EtS (Overlay of Patient Sample and Standard)

**Peaks**
1. Ethyl-β-D-glucuronide

**Precursor Ion**
220.8

**Product Ion**
74.8

**Column**
Raptor EtG/EtS (cat.# 9325A12)
Dimensions: 100 mm x 2.1 mm ID
Particle Size: 2.7 µm
Pore Size: 90 Å
Guard Column: UltraShield UHPLC precolumn filter, 0.2 µm frit (cat.# 25809)
Temp.: 35 °C

**Sample Diluent**
0.1% Formic acid in water

**Conc.**
50 µL of the sample or standard was diluted with 950 µL of a working internal standard (25 ng/mL EtS-d5/100 ng/mL EtG-d5 in 0.1% formic acid in water). The sample was vortexed at 3500 rpm for 10 seconds to mix. The sample was then centrifuged at 3000 rpm for 5 minutes at 10 °C. The autosampler needle was adjusted to inject from the supernatant.

**Inj. Vol.**
10 µL

**Mobile Phase**
A: 0.1% Formic acid in water
B: 0.1% Formic acid in acetonitrile

<table>
<thead>
<tr>
<th>Time (min)</th>
<th>Flow (mL/min)</th>
<th>%A</th>
<th>%B</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00</td>
<td>0.5</td>
<td>95</td>
<td>5</td>
</tr>
<tr>
<td>2.50</td>
<td>0.5</td>
<td>65</td>
<td>35</td>
</tr>
<tr>
<td>2.51</td>
<td>0.5</td>
<td>95</td>
<td>5</td>
</tr>
<tr>
<td>4.00</td>
<td>0.5</td>
<td>95</td>
<td>5</td>
</tr>
</tbody>
</table>

**Detector**
MS/MS

**Ion Mode**
ESI-

**Mode**
MRM

**Instrument**
HPLC

**Notes**
Reference Standards
- Ethyl-β-D-glucuronide (cat.# 34101)
- Ethyl-β-D-glucuronide-d5 (cat.# 34102)
- Ethyl sulfate sodium salt (cat.# 34103)
- Ethyl sulfate-d5 sodium salt (cat.# 34104)