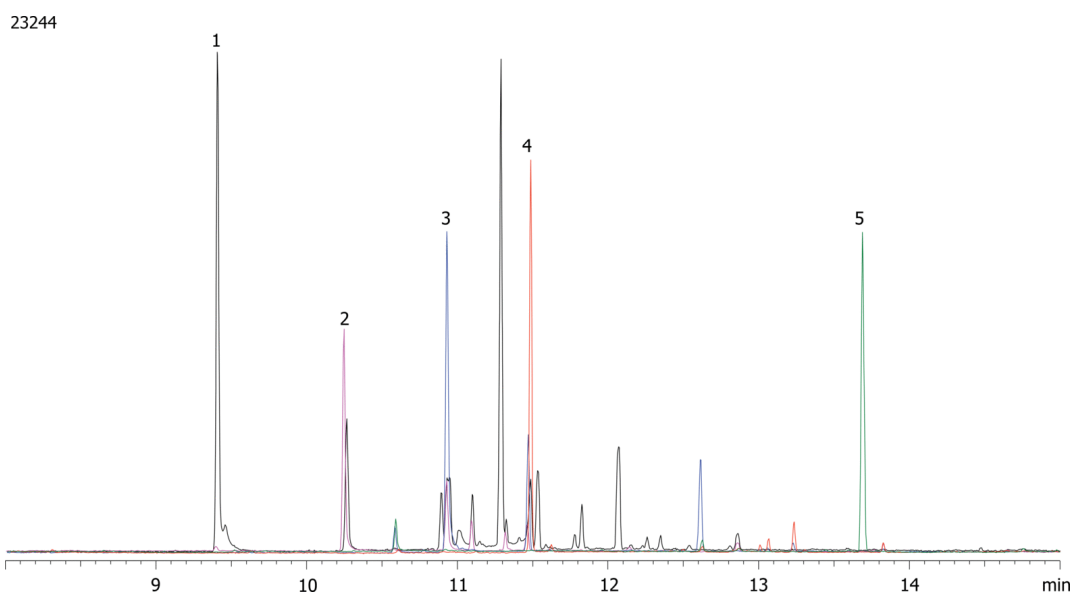


**Melamine in dog food by GC/MS using a ZB-5MSplus (EIC)****Column:** Zebron<sup>™</sup> ZB-5MSplus, GC Cap. Column 30 m x 0.25 mm x 0.25  $\mu$ m, Ea**Phase:****Dimensions:** 30 meters x 0.25 mm x 0.25  $\mu$ m**Order No:** 7HG-G030-11**Oven Profile:** 75° C for 1 min to 320 °C at 15 °C/min hold for 4 min**Carrier Gas:** Constant Flow Helium, 1 mL/min**Injection:** Splitless :1 1  $\mu$ L @ 280°C**Detection:** Refractive Index (320°C)**Analyst Note:** Sample preparation: Combine 0.5 g of homogenized dog food with 10 mL of DEA/water/acetonitrile (1:4:5) in a 15 mL centrifuge tube. Sonicate for 30 min. Centrifuge at 5000 rpm for 10 min. Transfer 100  $\mu$ L of supernatant to an autosampler vial and evaporate to dryness using nitrogen gas. Reconstitute with 100  $\mu$ L of acetonitrile/pyridine (1:1) and then derivatize using 100  $\mu$ L of BSTFA with 1% TCMS at 70 °C for 45 min. Inject sample into the GC/MS.Dry dog food spiked with 100  $\mu$ g/g melamine and related compounds.

Sim mode: Cyanuric acid (345,330,346), Ammelide (344,329,345), Ammeline (328,343,329), Melamine

**Products used in this application:****ANALYTES:**

- 1 Cyanuric acid
- 2 Ammelide
- 3 Ammeline
- 4 Melamine
- 5 Benzoguanamine

