



*Electronic
Sensor Technology*

The chemistry of black tea aroma

By

Edward J. Staples, Ph.D.

Electronic Sensor Technology

www.zNose.com

abstract

A new electronic nose technology based upon ultra-high speed gas chromatography, called the zNose™, quantifies the chemistry of black tea aroma with precision and accuracy in seconds. In this paper the results of testing 20 samples of blended black tea with the zNose™ is described. Test methods for tea include chromatographic analysis using Kovats indices and n-alkane vapor standards, a virtual chemical sensor array specific to black tea, principal chemical component analysis, and VaporPrint™ olfactory images. The zNose™ can monitor quality online and even has the ability to calibrate itself using proprietary zNose™ perfumes.

***DOWNLOAD FULL
PAPER (500 Kb)***



zNose™ ...THE NEED FOR SPEED