Supporting Information

Functionalization-free microfluidic electronic tongue based on a single response

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Abstract: this supporting information shows the description of the petrochemical inputs that were herein investigated (page S-2) and the plots of IDMAP and SAMMON for admittance spectra of pure inputs using our single response e-tongue with the five microwires in short circuit (page S-3).

Table S1. Description of the petrochemical inputs assessed by our single response e-tongue. Composition not disclosed due to intellectual property (IP) agreements

Hydrogen Sulfide H_2S Scavenger		
PROSWEET S1750	Triazin based	SHS1
FONGRASORB NR	Ethoxylate based	SHS2
GASTREAT 235	Glioxal based	SHS3
Anti-Fouling		
IDOS 150-E-25	Poly(vinyl sulphonate)	AFL1
DEQUEST 2066	Pentaphosphate	AFL2
BELLASOL S-40	Poly(carboxylic) phosphoric acid	AFL3
Biocide		
BACTRON L-168	Ammonium salt	BIO1
BACTRON L-95	Tetra Hydroxymethyl Phosphonic Sulfate	BIO2
Demulsifier		
	Poly(ethylene oxide-b-propylene oxide)	DEM
Antifoam		
	Poly(dimethylsiloxane)	AFO

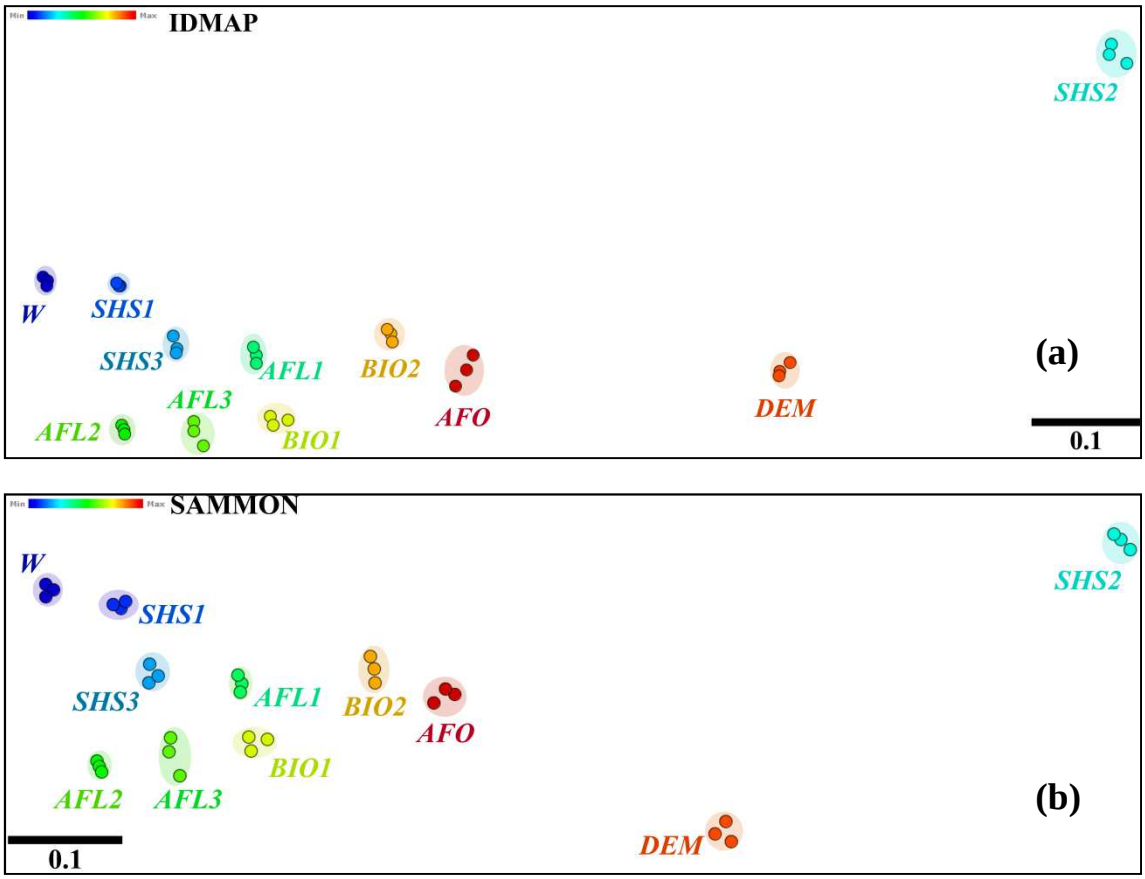

Figure S1. IDMAP **(a)** and SAMMON **(b)** plots for admittance spectra of pure inputs utilizing our single response e-tongue with the five microwires in short circuit. The solutions were pumped at 1000.0 μL h^{-1}.