



Supplementary Materials

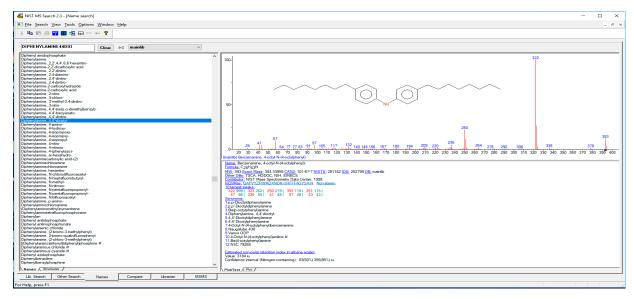


Figure S1. Mass spectrum of dioctyl-substituted diphenylamine within the NIST library.

Separations **2020**, 7, 70 2 of 2

Table S1. Chemical name, structure and multiple reaction monitoring (MRM) transitions (Reprinted with permission from ref. [34]. Copyright (2016) American Chemical Society).

Analyte	Structure	MRM Transitions (*quantifier)
Monobutyl Diphenylamine (C4)	C₄H₀	226→134* 226→106 226→93
Dibutyl Diphenylamine (C4C4)	C ₄ H ₉	282→134* 282→106 282→93
Monooctyl Diphenylamine (C8)	NH C ₈ H ₁₇	282→134* 282→106 282→93
Monobutyl monooctyl Diphenylamine (C4C8)	C ₈ H ₁₇ NH C ₄ H ₉	338→134* 338→94 338→106
Dioctyl Diphenylamine (C8C8)	C ₈ H ₁₇ NH C ₈ H ₁₇	394→134* 394→106 394→93
Monononyl Diphenylamine (C9)	NH C ₉ H ₁₉	296→134* 296→106 296→210
Dinonyl Diphenylamine (C9C9)	C ₉ H ₁₉ NH C ₉ H ₁₉	422→336 422→148 422→106 422→134*
Dimethyl-distyrenated Diphenylamine (diAMS)	O+O-NH	406→196* 406→119 406→103
Monostyrenated Diphenylamine MS (two isomers)		274→182*(peak 1) 274→180*(peak 2) 274→105