









Fig. 1 2D TIC and 3D view of crude extract of house dust, NIST SRM 2585

Fig.2 Comparison of 2D-TIC and mass spectra of one peak (blob) suggested as trans-Chlordane after data deconvolution (Layer 1 (middle) and 2 (bottom) as extracted result) and original (top).

Table 1 The results of identification of some compounds in house dust sample after mass spectra deconvolution by an in-house software "NMFwithDBcreator"

Compound Name	Library Formula	RT I (min)	RT II (sec)	MF	RMF	Exact mass	Detect mass	Mass error (ppm)
Methylparaben	C <sub>8</sub> H <sub>8</sub> O <sub>2</sub>	36.06	1.91	741	850	152.0473	152.0463	6.93
Propylparaben	C <sub>11</sub> H <sub>12</sub> O <sub>2</sub>	42.48	1.81	683	813	180.0786	180.0780	3.85
Diazinon	C <sub>12</sub> H <sub>11</sub> N <sub>2</sub> O <sub>2</sub> PS	47.73	1.62	804	818	304.1011	304.1003	2.33
Chlorpyrifos	C <sub>9</sub> H <sub>11</sub> Cl <sub>2</sub> NO <sub>2</sub> PS	53.66	1.94	823	905	348.9283	348.9238	7.84
Tricosan	C <sub>27</sub> H <sub>56</sub> O <sub>2</sub>	67.76	2.13	784	884	287.9512	287.9515	-1.07
Miconazole	C <sub>15</sub> H <sub>14</sub> ClN <sub>2</sub> O	79.69	3.40	721	858	413.9800	413.9849	2.71
Triethyl phosphate	C <sub>6</sub> H <sub>15</sub> O <sub>4</sub> P	21.94	1.21	731	833	182.0708	182.0714	-3.26
Triphenyl phosphate	C <sub>18</sub> H <sub>15</sub> O <sub>4</sub> P	65.58	3.05	759	809	326.0708	326.0709	-0.17
Propylated triphenyl phosphate	C <sub>21</sub> H <sub>19</sub> O <sub>4</sub> P	68.73	2.80	743	816	368.1177	368.1173	1.21
Tris (methylphenyl) phosphate	C <sub>21</sub> H <sub>19</sub> O <sub>4</sub> P	71.83	3.02	810	845	368.1177	368.1171	1.67
Tris (methylphenyl) phosphate	C <sub>21</sub> H <sub>19</sub> O <sub>4</sub> P	72.23	2.99	861	877	368.1177	368.1177	0.04
Tris (methylphenyl) phosphate	C <sub>21</sub> H <sub>19</sub> O <sub>4</sub> P	72.58	2.96	848	853	368.1177	368.1171	1.73
Tris (isopropylphenyl) phosphate	C <sub>27</sub> H <sub>29</sub> O <sub>4</sub> P	73.86	2.39	697	822	452.2116	452.2123	-1.44
Di (t-butylphenyl) phenyl phosphate	C <sub>26</sub> H <sub>31</sub> O <sub>4</sub> P	80.38	2.86	717	833	438.1960	438.1961	-0.24