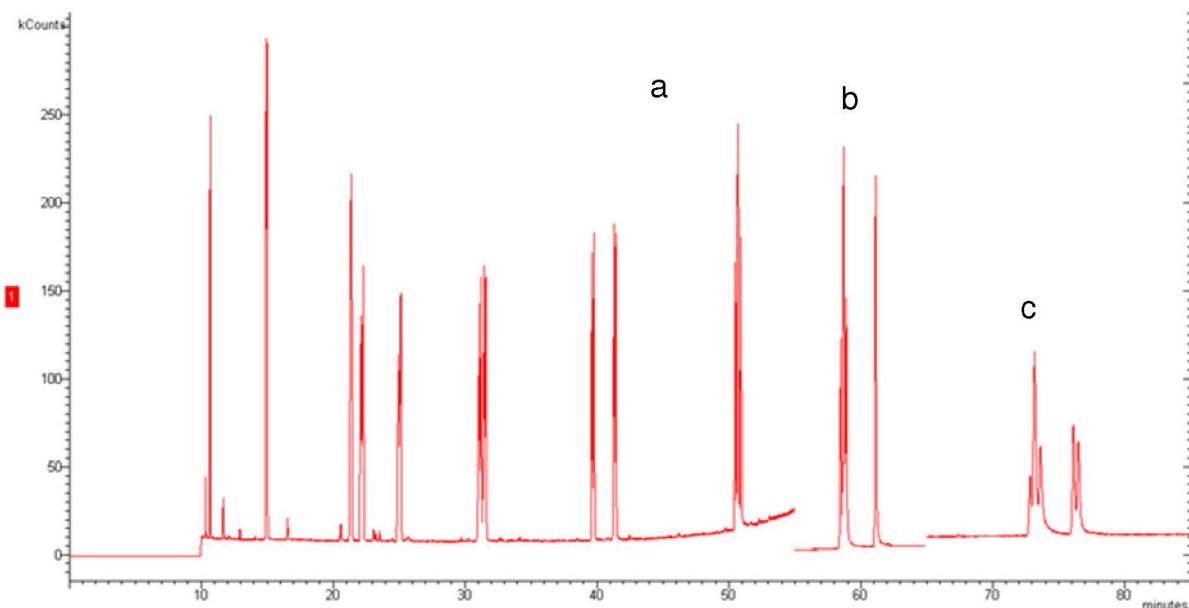


## Certified Reference Material for Traceability in Environmental Analysis: PAHs in Toluene

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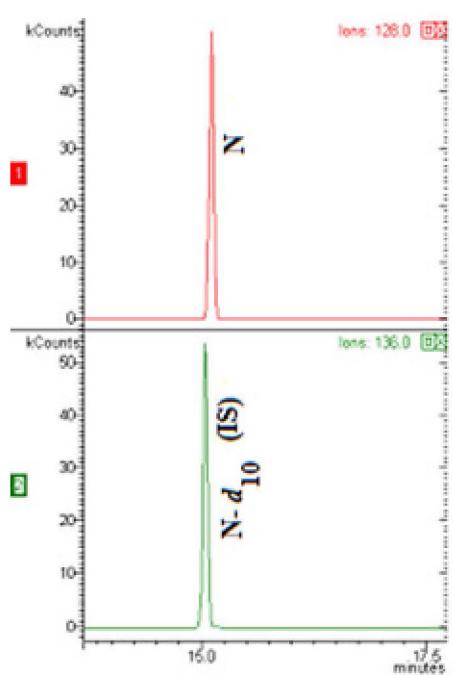
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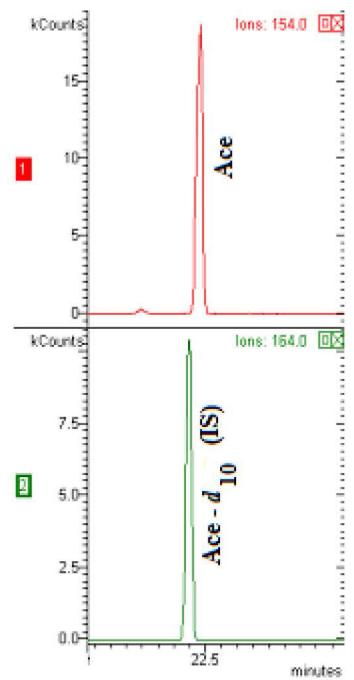


**Figure S1.** Analysis of produced CRM. Chromatogram of 16 native and deuterated PAHs in toluene. (a) SCAN mode; (b) and (c) SIM mode.

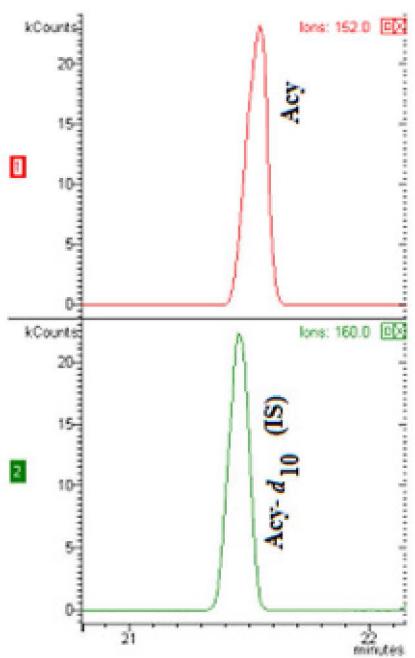
\*e-mail: efguimaraes@inmetro.gov.br, jdfv2009@gmail.com



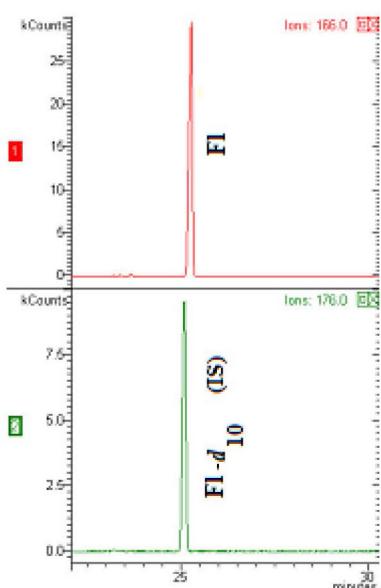
**Figure S2.** Signal of N ( $m/z$  128) and N- $d_{10}$  ( $m/z$  136).



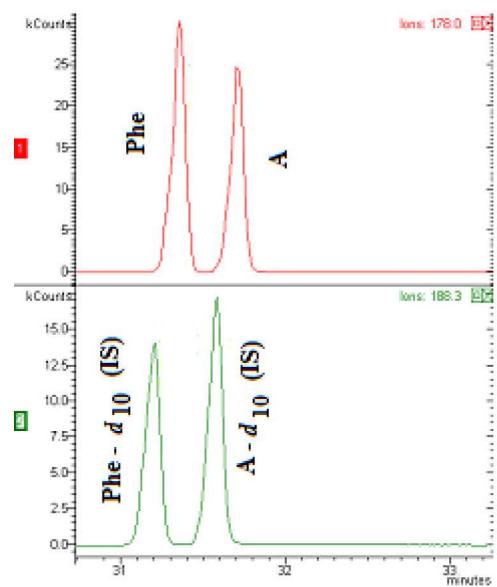
**Figure S4.** Signal of Ace ( $m/z$  154) and Ace- $d_{10}$  ( $m/z$  164).



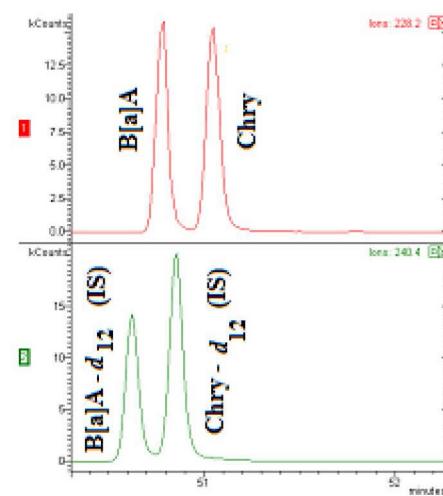
**Figure S3.** Signal of Acy ( $m/z$  152) and Acy- $d_{10}$  ( $m/z$  160).



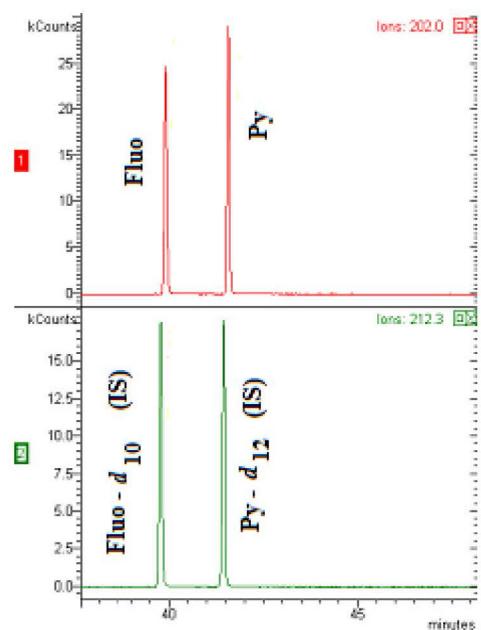
**Figure S5.** Signal of Fl ( $m/z$  166) and Fl- $d_{10}$  ( $m/z$  176).



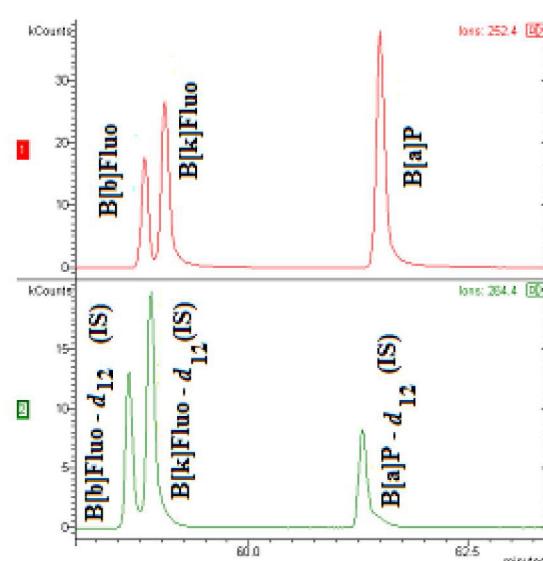
**Figure S6.** Signal of Phe ( $m/z$  178), A ( $m/z$  178), Phe- $d_{10}$  ( $m/z$  188.3) and A- $d_{10}$  ( $m/z$  188.3).



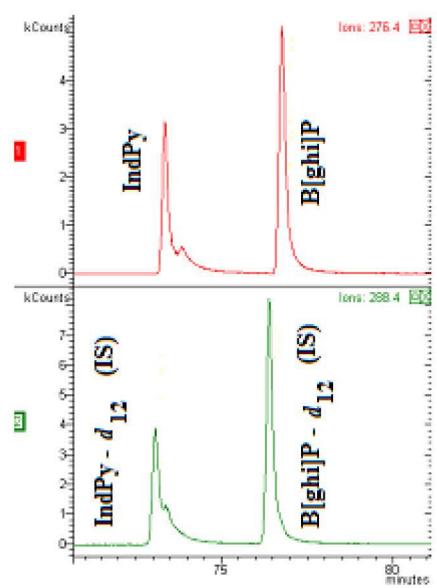
**Figure S8.** Signal of B[a]A ( $m/z$  228.2), Chry ( $m/z$  228.2), B[a]A- $d_{12}$  ( $m/z$  240.4) and Chry- $d_{12}$  ( $m/z$  240.4).



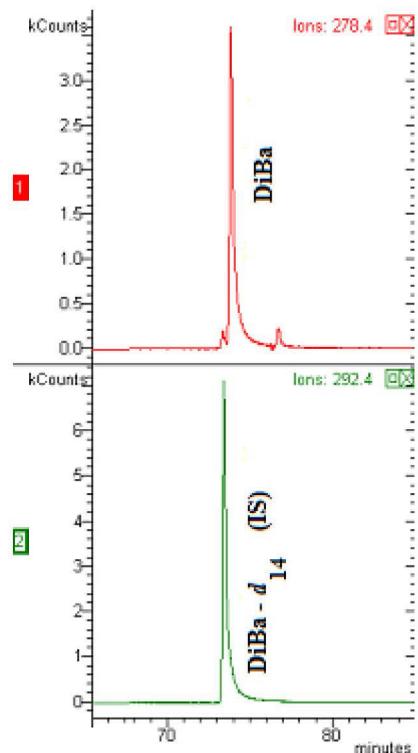
**Figure S7.** Signal of Flu ( $m/z$  202), Py ( $m/z$  202), Flu- $d_{10}$  ( $m/z$  212.3) and Py- $d_{12}$  ( $m/z$  212.3).



**Figure S9.** Signal of B[b]Fluo ( $m/z$  252.4), B[k]Fluo ( $m/z$  252.4), B[a]P ( $m/z$  252.4), B[b]Fluo- $d_{12}$  ( $m/z$  264.4), B[k]Fluo- $d_{12}$  ( $m/z$  264.4) and B[a]P- $d_{12}$  ( $m/z$  264.4).



**Figure S10.** Signal of IndPy ( $m/z$  276.4), B[ghi]P ( $m/z$  276.4), IndPy- $d_{12}$  ( $m/z$  288.4) e B[ghi]P- $d_{12}$  ( $m/z$  288.4).



**Figure S11.** Signal of DiBa ( $m/z$  278.4) and DiBA- $d_{14}$  ( $m/z$  292.4).