



## Analytical Chemistry Fax

**Subject:** TIOJ Collaborative Study

**Date:** Feb. 11, 1998

**To:** Dr. Ken Padraza  
Fax: 804-274-2755

**From:** Linda Crumpler  
Fax: 336-741-7876  
Phone: 336-741-4251  
*2 pages*

Dear Ken,

I have received and reviewed the results of the TIOJ Collaborative Study on a Cigarette Which Creates Smoke Primarily by Heating Tobacco with a Constant Contact Lighter. I was very glad to see that you also included results for the rotary smoke machine and that your results confirmed those acquired in my laboratory. Therefore my comments are as follows:

There does seem to be a significant difference in the yields for TPM, nicotine, water and NFDPM between the linear and rotary smoke machines. As I commented in my fax to you on Jan. 28, this is not a trend I have previously observed in other comparisons of linear versus rotary smoking machines for low tar products, or for a product which primarily heats tobacco. Since the rotary machine is recognized by TIOJ as an acceptable alternative for tar and nicotine verification, I believe that the following must be investigated and clarified by the TIOJ experts before a recommendation of the final Draft Annex No. 2 could be made to the TIOJ Board:

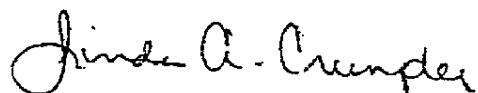
1. Cause(s) for the yield differences observed between the linear and rotary smoking machines on the PM product.
2. Statistical significance of the difference in yields observed between the linear and rotary data.

Until these issues are resolved the appropriateness of draft Annex No. 2 is an unknown.

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Please confirm receipt of my comments by return fax to 336-741-7876 or by telephone to 336-741-4251.

Best Regards,



Linda A. Crumpler

cc: Dr. Motohiko Muramatsu  
Mr. Takahiko Ikeda  
Mr. David Guilfoile  
Ms. Sachiko Takagi

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