

Review Form

Please complete a separate Review Form for each Docket.

Which Docket is being reviewed? (please underline)

Titles: NIOSH Manual of Analytical Methods (NMAM)

- 9106: *Methamphetamine and Illicit Drugs, Precursors, and Adulterants on Wipes by Liquid-Liquid Extraction (NIOSH-176)*
- 9109: *Methamphetamine and Illicit Drugs, Precursors, and Adulterants on Wipes by Solid Phase Extraction (NIOSH-177)*
- 0911: *Methamphetamine on Wipes by Liquid Chromatography-Mass Spectrometry-SIM (NIOSH-178)*.

Anticipated Publication: NIOSH Manual of Analytical Methods (NMAM), 5th Edition

Return by: September 30, 2009

Return to: Dr. W. Gregory Lotz, Director, Division of Applied Research and Technology, Mailstop R-2, NIOSH,
4676 Columbia Parkway, Cincinnati, OH 45226, or email at wlotz@cdc.gov.

YES NO
(explain below)

- | | | |
|--|-------------------------------------|-------------------------------------|
| 1. Does the Backup Data Report explain the problem and summarize relevant literature adequately? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Is the information in the Method and Backup Data Report technically accurate? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Are there any recommendations concerning organization of the documents? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. Are there any changes or corrections needed in the Backup Data Report? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5. Are there any changes needed in the Method? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6. In general, is the Method and Backup Data Report satisfactory? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. What is your recommendation for this Method as now written? (Check One): | | |
| a. Approve for publication/dissemination | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Approve after modification (please describe) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c. Do not approve (please describe) | <input type="checkbox"/> | <input type="checkbox"/> |

DETAILED COMMENTS: (Provide comments in this space or on a separate sheet. Check here if a separate sheet is attached).

There is a table in both the Backup Data Report (pg.7, Table I) and method (Table II) that provides maximum surface contamination limits. The units in both are expressed as " μ /area". The correct units to express are " μ g/area." The method describes the use of a tumbler for performing both the initial extraction and subsequent liquid/liquid extraction. Are any other mechanical devices acceptable for use? Can mechanical agitation (shaker) be used provided it is mixing the sample well? I suggest comments be added regarding whether the method must be performed with a tumbler and if other equipment is an acceptable alternative, indicate this. This comment also applies to the subsequent two methods. This method is lacking in contrasting the procedure to subsequently developed methods 9109 and 0911. I like the discussion in Backup Data Report 9109 that has a table contrasting the three procedures as well as the in-depth discussion of the advantages one procedure has over the others. I suggest this be listed in all three procedures to help guide the analyst to select the procedure that will best suit their needs and available equipment.