

## Appendix II:

Measurement of food residue samples, like fecal sample measurement, will depend very much upon procedures used. At the moment these have not been delineated. ~~Look B~~ The following is a resume of error sources and recommendation of procedures.

5/L

Food packages come in vary ing widely and include: beverage containers, an folded accordion folded plastic cylinder with a several arrangements push-pull valve, pop cans with or pull removal ring top ~~small~~ including small cans with of custards, candies and peanuts, a separate ~~internal~~ internal larger cans with ~~small~~ plastic ~~small~~ container and which with a water valve for rehydration,

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with a plastic diaphragm for  
large cans with wet packed foods  
such as fruits in syrup<sup>and</sup>, applesauce  
and large cans with frozen foods such  
<sup>shellfish</sup> as filets, lobster in sauce and ice cream.  
insert ①

Regardless of food residue, two  
common requirements must be met for  
satisfactory mass determination.  
The object(s) must be secured to the  
mass SMMD specimen tray. They must  
be prevented from sloshing.

① Apparently a new design for dehydrated  
foods will be used for flight. It will have  
a semi-rigid section to fit the larger  
-sealable  
cans with a ~~reusable~~ flexible plastic  
membrane extension.

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Of all the schemes tried the following  
~~is~~ was the most practical. Small  
custard cans with or without the lid may  
be placed directly on the scale. Those cans  
with small particulate materials such as  
candies and peanuts should be emptied into  
the ~~sp~~ plastic bag which is then <sup>placed</sup> ~~adjusted~~  
on the specimen tray such that all  
contained ~~particles~~ particles are ~~held~~ <sup>container</sup> to the tray under  
pressure by the elastomer sheet.

Depending upon the final configuration

① A plastic bag with some form of liquid  
tight closure is required for other measurements.

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rehydrated foods in plastic containers the plastic containers of inner containers should be removed from the cans and either sealed or placed in the plastic bag which is sealed. Any homogenous food can be measured directly since they are viscous enough not to slosh. Most of the wet packed foods (with the possible exception of applesauce) and the frozen items should will be placed in the bag, with its can and sufficient wipes to absorb any free liquid and the assembly clamped placed under the specimen restraint.

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~~Using~~ <sup>Up</sup> these procedures, accuracies sufficient for support of the metabolic analysis should be obtained.

~~Most~~ Most ~~wipes~~ Equally or even more important than mass measurement technique is the accounting of all objects in the gross mass figure i.e. type and number of containers and wipes.

~~The can~~ It is equally important to insure that an accurate known mass is available for all of these items i.e. can weights and wipe weights should be accurately known. ~~All~~ Both cans (and their lids) and wipes ~~have a low~~ have uniform weights to a small fraction

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of a gram, such <sup>TP</sup> that it is assumed  
that any plastic bags used will also be uniform  
<sup>else</sup> or <sup>TP</sup> weighed and stamped. If such procedures  
are followed are instituted and followed  
accuracies ~~of~~ adequate to support the  
metabolic experiments will be attained.