Collaborative Testing Services, Inc.
FORENSIC TESTING PROGRAM

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Manufacturer's Information

Test No. 26-5436: Ignitable Liquid Identification

Each sample pack contained two questioned items to which unknown ignitable liquid(s) had been added to a substrate and one item used as a substrate comparison blank. Participants were asked to identify and indicate the ASTM class (as described in ASTM E 1618-19) for any ignitable liquid(s) present on the submitted items.

SUBSTRATE PREPARATION: All items contained terry cloth substrate that were prepared by first being cut into 2″ x 2" square pieces.

QUESTIONED ITEMS: The items were created by pipetting and depositing 50 µL of each of the ignitable liquids to the substrate. The items were then immediately heat sealed in 5" x 10" nylon bags, which were then placed in pre-labeled 6" x 12" nylon bags and heat sealed again. Each bag was then inspected to determine if it contained an adequate amount of headspace. The different items were prepared and stored in different locations until the sample pack assembly.

COMPARISON BLANK: The same substrate was packaged in the same way as described for the questioned items, but no ignitable liquid was added.

SAMPLE PACK ASSEMBLY: All items were inspected to ensure they contained an adequate amount of headspace, and then they were placed into a pre-labeled sample pack box and sealed.

VERIFICATION: Predistribution results were consistent with each other and the manufacturer's preparation information. The following recovery and identification techniques were used to examine the items: Passive and Heated Headspace Adsorption, carbon/charcoal Adsorbent, carbon disulfide Desorption solvent, GC, and GC/MS.

Questioned Item	Substrate	Product Type	Brand	Classification*
1	Terry Cloth	Kerosene	Sunnyside	Medium Petroleum Distillate (MPD)
2	Terry Cloth	Charcoal Lighter Fluid	Royal Oak	Medium Petroleum Distillate (MPD)
Item 3 intended as a comparison blank only.				

**Classification as determined by the Ignitable Liquids Reference Collection (ILRC) database - University of Central Florida.*

The information presented here details how test samples were prepared as well as any design specifications. This information does not necessarily represent the results that could or should be obtained. Final interpretation of the results should be deferred until consensus data is made available in the summary report.