Experimental Study of Flammability Test on Our Test Facility Environment and the Flammability Test Set Up Parameters

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Through our Engineering activity for IS/IEC17025:2017 accreditation, we are evaluating the following uncertainty factors supposedly affected to the Fire and Flammability test results;

- 1. Altitude in the test laboratory location (S-BIRD location :500m),
 - We will directly compare the test results with the test laboratory's test results at the sea level.
- 2. Seasoning effect (cold and dry season or hot and high humidity seasons),
 - We will continuously conduct the test of the same coupons and investigate the variation of the test results due to the seasoning effects.
- 3. Flammability test set up parameters, say, with conditioning or without conditioning, flame temperature, ignition time and so on.
 - > We will study he most influential parameter on the Flammability test set up.
- 4. Material dependencies
 - Several commercial materials, which may be used as the cabin material, will be evaluated through the above test.

In our presentation, we would like to show our experimental test results on the uncertainty factors caused by our test environment and the flammability test set up ambiguity.