



Heated Tobacco Products (HTP) Task Force: Update for ISO/TC126/WG22

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HTP TF – February 2022, Update for ISO/TC126/WG22



Objectives

- 1. Establish standardized terminology and definitions that encompass all categories of Heated Tobacco Products.**
- 2. Define one or more specific approaches and regimes for the generation and collection of emissions for Heated Tobacco Products.**
- 3. Define and agree on priority compounds to be analysed (or not); review current CRM suitability, edit, or develop methods for Heated Tobacco Products.**



Work in Progress: 2 year PLUS plan

| Proposed New Project | Link to Objective | Timeline (start) | Timeline (completion) |
|---|-------------------|------------------|-----------------------|
| Proficiency Study – Basic analytes and CO, NO, NOx | Objective 3 | Q3, 2020 | Q2, 2022 |
| Puffing Regime CRMs for HTP sub categories (depends on Prof Study Outcome) | Objective 2 | Q3/Q4 2021 | Q2, 2022 |
| Draft CRMs for Basic analytes and CO, NO, NOx (depends on Prof Study Outcome) | Objective 3 | Q1, 2022 | Q3, 2022 |
| Collaborative study for water activity | Objective 3 | Q2, 2022 | Q1, 2023 |
| Study for carbonyls | Objective 3 | Q2, 2022 | Q2, 2023 |
| Study for TSNAs | Objective 3 | TBC | TBC |
| Study for Volatiles | Objective 3 | TBC | TBC |
| Study for B[a]P / PAHs | Objective 3 | TBC | TBC |



Work in Progress: Building 5 year plan

❖ At this stage discussion topics:

- **Main focus: Targeted analytes in emissions**
 - Extending and prioritising current targeted analytes list
 - ◆ Tobacco specific
 - ◆ HTP specific
- **Non-targeted analysis**
 - Highly specialised
 - Complex and multiple approaches
 - Potential to develop “Best Practices”
- **HTP sub-category reference products**

➤ Potential specific tobacco related toxicants:

- Nicotine (potentially other alkaloids and form (whether this should consider: aerosol pH?))
- CO, NO, NO_x
- PAHs (Benzo[a]pyrene)
- Carbonyls
- TSNAs
- Volatiles
- Ammonia
- Carbon Black
- Other constituents: pyridine, dimethyl trisulfide, acetoin, methylglyoxal
- Metals (raised in other sections)



Proficiency Study: Basic Analytes, CO, NO and NOx

❖ Analytes:

- Glycerol, propylene glycol, nicotine, CO, NO, NOx and
- ACM (DML for aHTP)

❖ Four products:

- eHTP - Philip Morris and British American Tobacco
- aHTP - Japan Tobacco
- cHTP - RJ Reynolds Tobacco

❖ 16 laboratories participated

❖ Pending results, aim to:

- Support puffing regime CRMs for each sub-category
- Draft CRMs for basic analytes and CO, NO, NOx

**WORK IN
PROGRESS**
Report being
drafted



Water Activity

- ❖ **Conduct a collaborative study to determine if CRM N°88, *Determination of Water Activity of Tobacco and Tobacco Products* is fit for use for HTP consumables.**
- ❖ **9 laboratories shared interest in participating**
- ❖ **Conduct study in parallel with carbonyls study**
 - **Same products to be distributed for both studies**

- ❖ **To conduct a study to determine the carbonyls method and develop a CRM.**
- ❖ **Focus: 8 carbonyls on HC list**
 - **Formaldehyde, Acetaldehyde, Acrolein**
 - **Acetone, Propionaldehyde, Crotonaldehyde, MEK, Butyraldehyde**
- ❖ **Proposed method drafted**
- ❖ **Small ring-trial being organised**



❖ Studies being planned over the next 2 years:

- Water Activity
- Carbonyls in emissions
- TSNAs in emissions
- Volatiles (e.g. 1,3-butadiene, benzene) in emissions
- B[a]P/PAHs in emissions



Collaboration between CORESTA and ISO

- ❖ **ISO members (who are not members of CORESTA) are welcome to participate in CORESTA HTP Task Force studies as “Guests”**

- ❖ **If interested in finding out more please contact:**
 - **HTP TF specifics:**
 - helena_digard@bat.com and/or
 - Jason.W.Flor@altria.com
 - **Participation in CORESTA studies:**
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