

AAS003-P03

Room: Convention Hall

Time: May 27 17:15-18:45

## Early check of the SMILES level 2 products using the other space-borne instrument observations

Koji Imai<sup>1\*</sup>, Makoto Suzuki<sup>2</sup>, Takuki Sano<sup>2</sup>, Naohiro Manago<sup>2</sup>, Yohitaka Iwata<sup>2</sup>,  
Chihiro Mitsuda<sup>3</sup>, Chikako Takahashi<sup>3</sup>, Masato Shiotani<sup>4</sup>, Hiroo Hayashi<sup>4</sup>

<sup>1</sup>TOME R&D Inc., <sup>2</sup>JAXA/ISAS, <sup>3</sup>FUJITSU FIP CORPORATION, <sup>4</sup>Kyoto university, RISH

To demonstrate the high sensitivity of 4-K cooled sub-mm limb sounders and to monitor global distributions of the stratospheric trace gases, the Japan Aerospace eXploration Agency (JAXA) launched the Superconducting Submillimeter-Wave Limb-Emission Sounder (SMILES) instrument to the International Space Station (ISS) in 2009 using the H-II Transfer Vehicle (HTV). SMILES has been transferred to normal operation phase on 6th November, 2009. Currently, level 2 data products of the SMILES measurements has been evaluated.

Here we compare the latest data products from SMILES with coincident observations from the other satellite-borne instruments (ACE-FTS, Aura/MLS, MIPAS, Odin/SMR and SCIAMACHY), by analysing volume mixing ratio profiles. The average values of the mean relative differences are consistent within the margin of error.

Keywords: SMILES