

ABSTRACT SUBMISSION –– SOUMISSION DE RESUME

**Topic No.: / Sujet n° : 2 or / ou**

**proposed topic / sujetproposé:**

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ABSTRACT / RESUME:

Characteristic Analysis and Channel Model Research of VHF Data Exchange System Signal Propagation

In this paper, based on the existing radio signal propagation theory and channel models, we setupa VHF Data Exchange System (VDES) channel sounding system with high precision synchronization, and utilize it to measure and analyze VDES signal propagation characteristics in china coastal typical applicationscenarios (such as open sea, coastal bay, narrow water channel, sea building area, port and island, etc.). According these research results, we suggest several channel models of the typical application scenario. We expect these theoretical models and actual measured results are conductive to the development of VDES international standard.