**3GPP TSG-SA WG4 Meeting #131S4-250310**

**Switzerland, Geneva, 17 – 21 February 2025**

Title: LS on extending ETSI TS 103 224 for testing immersive UEs

Response to: -

Release: 19

Work Item: ATIAS\_Ph2 (1050113)

Source: 3GPP SA WG4 – Audio SWG

To: ETSI TC STQ

Cc: ITU-T SG12/Q5

**Contact Person:**

Name: Jan Reimes

E-mail Address: jan.reimes@head-acoustics.com

**Send any reply LS to: 3GPP Liaisons Coordinator,** [**mailto:3GPPLiaison@etsi.org**](mailto:3GPPLiaison@etsi.org)

Attachments: None

**1. Overall Description:**

3GPP SA4 is currently working on updating the test and requirement specifications for immersive audio services under the work item "ATIAS\_Ph2" (TS 26.260/TS 26.261). This work focuses on evaluating the capture and rendering capabilities of immersive speech communication terminals and ensuring high-quality immersive audio experiences.

In mobile/mono telephony (TS 26.131/132), the noise field simulation system described in ETSI TS 103 224 is used for testing noise suppression in terminals and is also of interest to TS 26.260.

It was discussed whether the ETSI TS 103 224 system could be extended or adapted for the reproduction of immersive audio scenes. 3GPP SA4 believes that such an extension could provide a valuable foundation for testing of immersive acoustic capture capabilities, if consistency and reliability across various labs and test rooms can be achieved. At the same time TS 26.260 already has several defined speaker arrays and loudspeaker positions and backward compatibility with these setups is also of interest.

**2. Actions:**

**To ETSI TC STQ:**

**ACTION:** 3GPP SA4 kindly requests ETSI TC STQ to consider:

1. Whether the noise field simulation system described in ETSI TS 103 224 could be in general extended or adapted for the reproduction of immersive audio scenes (based on e.g., scene-based audio/ambisonics recordings).
2. Whether normative work could be initiated to define such an extension, which would ensure direct playback of immersive audio formats (supporting testing of audio capture solutions, e.g., up to 3rd order ambisonics) while maintaining high reproducibility across test environments.
3. Whether the noise field simulation systems can be made compatible with existing setups and loudspeaker test positions already defined in TS 26.260.

**3. Date of Next SA4 Meetings:**

SA4#131-bis-e 11 – 17 April 2025 E-Meeting

SA4#132 19 – 23 May 2025 Fukuoka

SA4#133-e 21 – 25 July 2025 E-Meeting