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**Universal Mobile Telecommunications System (UMTS);
LTE;
Digital cellular telecommunications system (Phase 2+) (GSM);
Speech Enabled Services (SES);
Distributed Speech Recognition (DSR)
extended advanced front-end test sequences
(3GPP TS 26.177 version 14.0.0 Release 14)**



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Contents

Intellectual Property Rights	2
Foreword.....	2
Modal verbs terminology.....	2
Foreword.....	4
1 Scope	5
2 References	5
3 Abbreviations	5
4 General	6
5 Test sequence format.....	6
5.1 File format	6
6 DSR test sequences	6
Annex A (informative): Change history	7
History	8

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1 Scope

The present document specifies the digital test sequences for the DSR Extended Advanced Front-end speech codec. These sequences can be used to test for a bit exact implementation of the DSR Advanced Front-end codec and quantization (3GPP TS 26.243).

2 References

The following documents contain provisions, which through reference in this text, constitute provisions of the present document.

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- [1] 3GPP TS 26.243: "ANSI-C code for the Fixed-Point Distributed Speech Recognition Extended Advanced Front-end".
- [2] ETSI ES 202 050 (2007-01) V1.1.5: "Speech Processing, Transmission and Quality Aspects (STQ); Distributed speech recognition; Advanced front-end feature extraction algorithm; Compression algorithms DSR advanced front end."
- [3] ETSI ES 202 212 (2005-11) V1.1.2: "Speech Processing, Transmission and Quality Aspects (STQ); Distributed speech recognition; Extended advanced front-end feature extraction algorithm; Compression algorithms; Back-end speech reconstruction algorithm".
- [4] 3GPP TS 26.074: "AMR speech codec test sequences"
- [5] 3GPP TS 26.174: "Adaptive Multi-Rate (AMR) Wideband speech codec test sequences"

3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

AFE	Advanced Front-end
AMR	Adaptive Multi-Rate
AMR-NB	AMR Narrowband
AMR-WB	AMR Wideband
DSR	Distributed Speech Recognition
ETSI	European Telecommunications Standards Institute
GSM	Global System for Mobile communications
SES	Speech Enabled Services
VAD	Voice Activity Detector
X-AFE	eXtended Advanced Front-end