



# REPORT

## 3<sup>rd</sup> ITU test event ON COMPATIBILITY OF MOBILE PHONES AND VEHICLE HANDS-FREE TERMINALS

### INFORMATION ABOUT THE EVENT

**Date and venue:** 15 – 16 November 2016, Bangkok, Thailand (during ITU Telecom World)

**Testing laboratory:** the tests were performed by HEAD acoustics

*Note: the testing laboratory was selected by ITU according to the results of the [call for bids](#) which was announced by ITU in September 2015 ([newslog](#)).*

**Number of phones provided for testing:** 6 (10 tests were conducted)

**Web sources:** <http://itu.int/go/hft-test-event-3>

**Video:** <https://www.youtube.com/watch?v=9sU622H6ooY>

### OBJECTIVES

This is the third test event which ITU has conducted since 2014. This event as well as the previous events is organized according to the request received from automotive industry to test mobile phones against ITU-T Recommendations which specify the transmission performance requirements for mobile phones connected with Hands-free Telephone system (HFT) using Short-Range Wireless (SRW) interface.

The key goal of such event is to draw attention of mobile phone vendors to some issues, which relate to wireless connectivity of mobile phones and quality of voice in a car, and to request them to make relevant updates in their mobile phones.

There is also intention to raise awareness of the issue among customers of automotive companies through providing them the list of mobile phones which automotive companies may recommend to use in the cars.

### GOAL

- To assess performance and quality of the voice communication of mobile phone in conjunction with vehicle-mounted Hands-free telephone systems in accordance with Chapter 12 (“Verification of the transmission performance of short-range wireless (SRW) transmission enabled phones”) of Recommendations ITU-T P.1100 and ITU-T P.1110 (01/2015);
- To update the [“whitelist”](#) with the phones which passed the tests;
- To provide details of tests to participating companies to inform them whether mobile phones are configured properly;
- To discuss the testing results among the participants (e.g. automotive industry, mobile phone vendors, etc.) for improving the voice quality;

- To discuss future actions to address this issue, including a procedure for ITU to grant a special logo to mobile phones which successfully passed the ITU tests;
- To provide anonymized testing results and the experiences gained at this testing event into ITU-T Study Group 12.

## GENERAL OVERVIEW

All mobile phones were tested in narrowband and wideband modes against requirements described in chapter 12 of Recommendations ITU-T P.1100/P.1110 (2015) which also contain the relevant testing specifications. The testing methodology as well as testing requirements were also available on the dedicated [web page](#). The “on-the-go” testing offer by ITU during event focused on wideband mode.

All mobile phones which were tested at the third test event did not meet the requirements of the ITU-T P.1100/P.1110 (2015). However, some phones were very close to the above requirements and they successfully passed most of the tests. Vendors reacted to these outcomes and these mobile phones have then passed the tests with updated Software.

Following the results from the 3<sup>rd</sup> test event, there were debates regarding some parameters which from vendor’s perspective should be considered as optional. Following the discussion, it was requested to improve the current Recommendations ITU-T P.1100/P.1110 by more clearly describing mandatory and optional parameters. Mandatory requirements in general identify pass/fail criteria for such kind of testing. Participants agreed to submit contributions to the SG12 meeting which took place in Geneva in January 2017.

Following the SG12 meeting, the relevant criteria of the Chapter 12 of these Recommendations have been revised accordingly. Now, new versions of the [ITU-T P.1100](#) and [ITU-T P.1110](#) are available on the ITU web page.

As agreed earlier, some phones were retested and results showed that these mobile phones completely met the requirements of the [ITU-T P.1100](#) and [ITU-T P.1110](#) (2017) for narrowband and wideband communications respectively.

## CONCLUSION

The four mobile phones which successfully passed the tests were included into the ITU-T whitelist of the best hands-free performers and registered in the ITU [Product Conformity Database](#) in agreement with the vendor.

The testing laboratory analyzed the reports of the tested phones of the last two events and confirmed that there are no other phones which need to be listed in the whitelist bearing in mind the changes that have been made in the [ITU-T P.1100](#) and [ITU-T P.1110](#) (2017).

Following the results of SG12, it was also decided:

- to update the format of the test reports which should include two parts so that the mandatory test results are presented first with indicating pass/fail verdict point-by-point and the supplementary expert analysis information is presented separately, with appropriate marking of the informative nature of this information;

- to conduct next test events strictly according with the Chapter 12 of the Recommendations ITU-T P.1100 and ITU-T P.1110 (03/2017).

Also, the roundtable, which was initially scheduled back-to-back with the third test event, was postponed to 10 of March 2017. More details about this event including achieved outcomes are available on its [web page](#).

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