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**DAB Technology Provider Test Report**

**Client:**

**Model Brand and Name:**

**Date:**

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Note: Yellow highlight means input required

# Report prepared by (name, company address, email):

# Device Under Test (DUT)

**Manufacturer :**

**Model :**

**Type of device : e.g. in-vehicle or domestic radio technology**

**Serial number :**

**Test specification version : ETSI TS 103 461 V1.2.2 (2020-10)**

**ETI test file licence number :**

**ETI file set version number :**

**Other technology used (tick mark reference) :**

**Version History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Report Version** | **Date of issue** | **Comments** | **Author** |
|  |  |  |  |

# Introduction

This document provides the results against testing the product described in section 1: Device Under Test (DUT) against the requirements set out in section 7 of ETSI TS 103 461 which describes a test specification for core technology of in-vehicle and domestic radio receivers.

*Enter text regarding which tests are applicable to the product and if the standard has only partly been applied – why the other tests are not applicable e.g. part of the technology is certified already*

# Test material

To carry out the testing, Fraunhofer Technology Provider ETI files are required. These are available from DTG Testing: <https://www.dtgtesting.com/test-suites/>

# Test setup

Please list the equipment used for the testing, and a block diagram of the test setup.

# Test results summary

**Please indicate all groups of tests that have passed testing as well as any comments for tests not completed or out of scope for the product along with justification.**

* **Testing completed by [Enter name and job title of engineer]**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test ID in ETSI TS 103 461** | **Test** | **Details** | **Number of tests** | **Tests passed or manufacturer Comment e.g. justification for any tests not performed/ completed** |
| 2.1.1 | Basic checks | DUT lists all 8 components | 1 |  |
| 2.1.2 | Basic checks | Check all 8 components | 8 |  |
| 2.2.1 | Multiple sub channels | DUT lists all 32 services | 1 |  |
| 2.2.2 | Multiple sub channels | Check all 32 components | 32 |  |
| 3.1.1 to 3.1.23 | Audio testing | Play audio on each service for 15 seconds | 23 |  |
| 3.2.1 to 3.2.32 | Audio testing | Play audio on each service for 15 seconds | 32 |  |
| 3.3.1 to 3.3.21 | Audio testing | Play audio on each service for 15 seconds | 21 |  |
| 3.4.1 | Audio parameter changes | Play audio - minimal interruptions - max 250ms | 1 |  |
| 3.4.2 | Audio parameter changes | Play audio - no interruptions | 1 |  |
| 3.4.3 | Audio parameter changes | Play audio - no interruptions | 1 |  |
| 3.4.4 | Audio parameter changes | Play audio - minimal interruptions - max 250ms | 1 |  |
| 3.4.5 | Audio parameter changes | Play audio - minimal interruptions - max 250ms | 1 |  |
| 3.4.6 | Audio parameter changes | Play audio - minimal interruptions - max 250ms | 1 |  |
| 4.1.1 | Character set testing (FIG type 1) | Tune radio and check characters | 1 |  |
| 4.1.2 | VOID |  |  |  |
| 4.1.3 | VOID |  |  |  |
| 4.2.1 | Service label testing (FIG type 2) | Tune radio and check service label |  |  |
| 4.2.2 | Service label testing (FIG type 2) | Tune radio and check service label |  |  |
| 5.1.1 to 5.1.38 | RF testing | Conducted Gaussian sensitivity | 38 |  |
| 5.1.39 | RF testing | Conducted Gaussian sensitivity - audio test | 1 |  |
| 5.2.1 to 5.2.3 | RF testing | Rayleigh sensitivity | 3 |  |
| 5.3.1 to 5.3.38 | RF testing | ACS | 216 |  |
| 5.4.1 to 5.4.38 | RF testing | extended ACS | 1190 |  |
| 5.5.1 and 5.5.2 | RF testing | Power variation | 4 |  |
| 6.1.1 to 6.1.5 | Reconfigurations | Adding a secondary component | 5 |  |
| 6.2.1 to 6.2.6 | Reconfigurations | Removing a secondary component | 6 |  |
| 6.3.1 to 6.3.3 | Reconfigurations | Removing a service | 3 |  |
| 6.4.1 to 6.4.4 | Reconfigurations | Moving CU locations | 4 |  |
| 6.5.1 to 6.5.6 | Reconfigurations | Sub channel bit rate changes | 6 |  |
| 6.6.1 to 6.6.3 | Reconfigurations | Protection level changes | 3 |  |
| 6.7.1 to 6.7.4 | Reconfigurations | Combined changes | 4 |  |
| 7.1.1 | Service list handling | Initial scan - Radio lists all services | 1 |  |
| 7.1.2 | Service list handling | Initial scan Select all services | 10 |  |
| 7.2.1 | Service list handling | New multiplex - check all services | 1 |  |
| 7.2.2 | Service list handling | New multiplex - play audio | 10 |  |
| 7.3.1 | Service list handling | Mux changes freq | 1 |  |
| 7.3.2 | Service list handling | Mux changes freq | 10 |  |
| 7.4.1 | Service list handling | Service moves to new ensemble | 1 |  |
| 7.5.1 | Service list handling | Reselection after signal loss | 1 |  |
| 7.6.1 | Service list handling | Duplicate service handling | 1 |  |
| 7.6.2 | Service list handling | Duplicate service handling | 1 |  |
| 7.7.1 to 7.7.3 | Service list handling | Unsupported comps | 3 |  |
| 7.8.1 to 7.8.6 | Service list handling | Service comp label changes | 3 |  |
| 8.1.1 to 8.3.1 | Dynamic label transport methods | Display DLS | 10 |  |
| 8.4.1 to 8.4.3 | Dynamic label control codes | Handle control code correctly | 3 |  |
| 8.5.1 | Dynamic label clear command | Handle command correctly | 1 |  |
| 8.6.1 to 8.6.2 | MFN support | Handles multiple signals correctly | 2 |  |
| 9.1.1 | SFN, MFN and OE following | SFN following | 1 |  |
| 9.1.2 | SFN, MFN and OE following | MFN following - same ensemble on two different frequencies | 1 |  |
| 9.1.3 | SFN, MFN and OE following | OE following - same service on two different ensembles and two different frequencies | 1 |  |
| 9.1.4 | SFN, MFN and OE following | ECC test | 1 |  |
| 9.1.5 | SFN, MFN and OE following | ECC test | 1 |  |
| 9.2.1 | DAB service linking | Service following - hard linking | 1 |  |
| 9.2.2 | DAB service linking | Service following - linkage actuator flag deactivated | 1 |  |
| 9.2.3 | DAB service linking | Service following - FIG 0/21 frequency information | 1 |  |
| 9.2.4 | DAB service linking | Service following - soft linking | 1 |  |
| 9.2.5 | DAB service linking | ECC test | 1 |  |
| 9.3.1 to 9.3.4 (9.3.5 VOID) | DAB announcements | DAB announcements | 4 |  |
| 9.4.1 to 9.4.3 | FM service following | FM service following | 3 |  |
| 10.1.1 to 10.1.5 | Alarm announcements | Alarm announcements | 5 |  |