ISO 11452-3:2024-05 (E)

Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 3: Transverse electromagnetic (TEM) cell

Contents

Page

Foreword ... iv

Introduction ... v

1 Scope ... 1

2 Normative references ... 1

3 Terms and definitions ... 1

4 Test conditions ... 1

5 Test apparatus ... 2

5.1 TEM cell ... 2

5.2 Instrumentation ... 3

5.3 Test set-up ... 4

5.3.1 General ... 4

5.3.2 Exposure of device under test and wiring harness (for major field coupling to the harness) ... 4

5.3.3 Exposure of device under test alone (for major field coupling to that device) ... 5

6 Test procedure ... 6

6.1 Test plan ... 6

6.2 Test method ... 7

6.2.1 General ... 7

6.2.2 Test level setting ... 7

6.2.3 DUT test ... 8

6.3 Test report ... 8

Annex A (informative) **TEM cell dimensions** ... 9

Annex B (informative) **Calculations and measurements of TEM-cell frequency range** ... 11

Annex C (informative) **Installation of external components and low pass filter design** ... 13

Annex D (informative) **Test setup without low pass filters** ... 16

Annex E (informative) **Function performance status classification (FPSC) and test severity levels** ... 20

Bibliography ... 21