

ISO/IEC 22536:2013-01 (E)

Information technology - Telecommunications and information exchange between systems - Near Field Communication Interface and Protocol (NFCIP-1) - RF interface test methods

Contents		Page
Foreword		v
1	Scope	1
2	Conformance	1
3	Normative references	1
4	Conventions and notations	1
4.1	Representation of numbers	1
4.2	Names	2
4.3	Test report	2
5	Abbreviations and acronyms	2
6	Default items applicable to the test methods	2
6.1	Test environment	2
6.2	Default tolerance	2
6.3	Spurious Inductance	2
6.4	Total measurement uncertainty	2
6.5	Antenna class	2
7	Test Set-up and test circuits	3
7.1	Digital sampling oscilloscope	3
7.2	Calibration coil	3
7.3	Test assembly	3
7.4	Reference Device	3
7.4.1	Dimensions of the Reference Device	3
7.4.2	Reference Device construction	3
7.4.3	Reference Device resonance frequency tuning	4
8	Functional Test - Initiator	4
8.1	Initiator RF field detection	4
8.1.1	Purpose	4
8.1.2	Test procedure	4
8.1.3	Test report	4
8.2	Initiator field strength in active and passive communication mode	4
8.2.1	Purpose	4
8.2.2	Test procedure	5
8.2.3	Test report	5
8.3	Initiator modulation index and waveform transmission in active and passive communication mode	5
8.3.1	Purpose	5
8.3.2	Test procedure	5
8.3.3	Test report	5
8.4	Initiator load modulation reception in passive communication mode	5
8.4.1	Purpose	5
8.4.2	Test procedure	5
8.4.3	Test report	5

8.5	Initiator modulation index and waveform reception in active communication mode	5
8.5.1	Purpose	5
8.5.2	Bit rate of 106 kbit/s	5
8.5.3	Bit rates of 212 kbit/s and 424 kbit/s	6
8.6	Initiator maximum loading effect test in active communication mode (Optional)	6
8.6.1	Purpose	6
8.6.2	Test procedure	6
8.6.3	Test report	6
9	Functional Test - Target	6
9.1	Target load modulation transmission in passive communication mode	6
9.1.1	Purpose	6
9.1.2	Test procedure	7
9.2	Target field strength in active communication mode	7
9.3	Target modulation index and waveform transmission in active communication mode	7
9.4	Target modulation index and waveform reception in active and passive communication mode	7
9.5	Target maximum loading effect test in Passive communication mode (Optional)	7
Annex A (informative) Test report template example		8