Name: Shanghai Institute of Quality Inspection and Technical Research Co., Ltd.

Address: No.900, Jiangyue Road, Minhang District, Shanghai, China (Metrology Testing)

Registration No. CNAS L0128

Accreditation Criteria: ISO/IEC 17025:2017 and relevant requirements of CNAS

Effective Date: 2026-01-21 Expiry Date: 2030-10-11

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SCHEDULE 5 ACCREDITED CALIBRATION AND MEASUREMENT CAPABILITY SCOPE

Note: The instruments with * represents onsite calibration can be performed.

№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
一、Thermometry							
1	*Digital Temperature Indicators and Controllers	Temperature	V.R.of Digital Temperature Indicators and Controllers JJG617	thermal resistor(-200～600)℃	U=0.20℃		
				Type T Thermocouple (-200～0)℃	U=0.7℃		
				Type T Thermocouple（0～400)℃	U=0.6℃		
				Type K Thermocouple（-200～-100)℃	U=0.7℃		
				Type K Thermocouple（-100～1372)℃	U=0.6℃		
				Type J Thermocouple (-210～-100)℃	U=0.6℃		
				Type J Thermocouple (-100～1200)℃	U=0.5℃		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				Type B Thermocouple（600～800)℃	U=1.4℃		
				Type B Thermocouple（800～1820)℃	U=1.2℃		
				Type R Thermocouple(-20～0)℃	U=1.6℃		
				Type R Thermocouple(0～100)℃	U=1.5℃		
				Type R Thermocouple（100～1767)℃	U=1.3℃		
				Type S Thermocouple（-20～0)℃	U=1.6℃		
				Type S Thermocouple(0～200)℃	U=1.5℃		
				Type S Thermocouple（200～1400)℃	U=1.3℃		
				Type S Thermocouple（1400～1767)℃	U=1.4℃		
				Type E Thermocouple（-200～600)℃	U=0.6℃		
				Type E Thermocouple（600～1000)℃	U=0.5℃		
				Type N Thermocouple（-200～-100)℃	U=0.9℃		
				Type N Thermocouple（-100～900)℃	U=0.8℃		
				Type N Thermocouple（900～1300)℃	U=0.6℃		
2	*Vacuum drying oven	temperature	Calibration Specification for Vacuum Ovens JJF(min)1093	(0～300)℃	U=0.4℃		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		Pressure		（-90～200）kPa	U=0.8kPa		
3	*High temperature test chambers	Temperature	Calibration Specification for the Low/high temperature test chambers SQI/JL-JF-46	（300～500）℃	U=1.2℃		
4	*Environmental test equipment	Temperature	Calibration specification for Environmental testing Equipment for Temperature and Humidity Parameters. JJF1101	（-80～300）℃	U=0.22℃		
		Humidity		(10～98) %RH	U=1.2%RH		
5	*Aging life test chamber/Low pressure test chamber	Differential Pressure	Calibration Specification for the Equipment of the Environmental Testing for Differential Pressure and Wind Speed and illuminance SQI/JL-JF-47	（1～190）Pa	U=0.5Pa		
		Wind Speed		（0.2～20)m/s	U=0.10m/s		
6	*Recorders for Industrial Process Measurement	Temperature	Recorders for Industrial Process Measurement JJG74	thermal resistor:(-200～600)℃	U=0.2℃		
				Type T Thermocouple (-200～0)℃	U=0.7℃		
				Type T Thermocouple(0～400)℃	U=0.6℃		
				Type K Thermocouple (-200～-100)℃	U=0.7℃		
				Type K Thermocouple（-100～1372）℃	U=0.6℃		
				Type J Thermocouple (-210～-100)℃	U=0.6℃		
				Type J Thermocouple(-100～1200)℃	U=0.5℃		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				Type B Thermocouple (600～800)℃	U=1.4℃		
				Type B Thermocouple （800～1820）℃	U=1.2℃		
				Type R Thermocouple (-20～0)℃	U=1.6℃		
				Type R Thermocouple (0～100)℃	U=1.5℃		
				Type R Thermocouple （100～1767）℃	U=1.3℃		
				Type S Thermocouple （-20～0）℃	U=1.6℃		
				Type S Thermocouple (0～200)℃	U=1.5℃		
				Type S Thermocouple （200～1400）℃	U=1.3℃		
				Type S Thermocouple （1400～1767）℃	U=1.4℃		
				Type E Thermocouple （-200～600）℃	U=0.6℃		
				Type E Thermocouple （600～1000）℃	U=0.5℃		
				Type N Thermocouple （-200～-100）℃	U=0.9℃		
				Type N Thermocouple （-100～900）℃	U=0.8℃		
				Type N Thermocouple （900～1300）℃	U=0.6℃		
				input :(0.001～15）V,(0.001～22)mA	U_{rel}=0.030%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
7	*Carbon dioxide incubator	temperature	Carbon dioxide incubator calibration specification SQI/JL-JF-49	（10～50）℃	U=0.3℃		
		Concentration		（1～15）%	U_{rel}=3%		
8	Liquid-in-Glass Thermometers	Temperature	Liquid-in-Glass Thermometers for Working JJG130	（-80～300）℃	U=0.06℃		
9	*Temperature Itinerant Detecting Instrument	Temperature	Calibration Specification for Temperature Itinerant Detecting Instrument JJF 1171	（-60～300）℃	U=0.12℃		
10	Mechanical Thermo-hygrometers	Temperature	Mechanical Thermo-hygrometers JJG205	（5～50）℃	U=0.3℃		
		Humidity		（30～95）%RH	U=1.4%RH		
11	Radiation Thermometers	Temperature	V.R. of the Working Radiation Thermometers JJG 856	（-50～50）℃	U=1.0℃		
				（50～500）℃	U=1.0℃		
				（500～1100）℃	U=2℃		
12	*Thermostatic Baths for Temperature Calibration	Temperature	Measurement and Test Norm of Metrological Characteristics of Thermostatic Baths for Temperature Calibration JJF1030	Temperature fluctuation （-80～300）℃	U=0.003℃		
				Horizontal temperature difference （-80～300）℃	U=0.002℃		
				Maximum temperature difference （-80～0）℃	U=0.006℃		
				Maximum temperature difference （0～100）℃	U=0.003℃		
				Maximum temperature difference （100～300）℃	U=0.006℃		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
13	*Digital Temperature-hygrometers	Humidity	Calibration Specification for Digital Temperature-hygrometers JJF 1076	（10～90）%RH	U=1.0%RH		
		Temperature		（5～50）℃	U=0.10℃		
14	*Industry Platinum and Copper Resistance Thermometers	Temperature (Industry Copper Resistance Thermometers)	Verification Regulation of Industry Platinum and Copper Resistance Thermometers JJG 229	（-50～150）℃	U=（0.027～0.032）℃		
		Temperature (Industry Platinum Resistance Thermometers)		（-80～600）℃	U=（0.027～0.14）℃		
				-196℃	U=0.036℃		
15	*Thermometers of Clinic Autoclave	Temperature	Calibration Specification for Thermometers of Clinic Autoclave JJF1308	(20～150)℃	U=0.28 ℃		
16	Base Metal Thermocouple	Temperature	Calibration Specification for Base Metal Thermocouples JJF 1637	（-40～300）℃	U=0.5℃		
				（300～400）℃	U=1.1℃		
				（400～1100）℃	U=1.2℃		
17	Thermal Imagers	Temperature	C.S. for Thermal Imagers JJF1187	（-15～200）℃	U=1.1 ℃		
				（200～450）℃	U=1.2℃		
18	Bimetallic Thermometer	Temperature	Calibration Specification for bimetallic thermometers JJF 1908	(-80～500)℃	U=0.4℃	(- 80 ~ 500) ℃ bimetallic thermometer	

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
19	Filled System thermometer	Temperature	Calibration Specification for Filled system thermometers JJF 1909	(-80～600)℃	U=0.4℃	A round scale steam Filled system with a measuring range of (-30-200) ℃, a round scale gas Filled system with a measuring range of (-80-600) ℃, and a liquid Filled system thermometer with a measuring range of (-40-250) ℃	
20	*Enthalpy Potential Testing Apparatus	Power	Calibration Specification for Enthalpy Potential Testing Apparatus JJF (Jixie)1005	0.01W～80kW	U_{rel}=0.05%		
		Temperature		Environmental：（-40～100）℃	U=0.22℃		
				Pt100:（-50～100）℃	U=0.034℃		
				Pt100:（100～150）℃	U=0.05℃		
				Thermocople：（-50～300）℃	U=0.4℃		
		Humidity		（20～95）%RH	U=1.2%RH		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		Pressure		(-0.1～60)MPa	U=0.2%FS		
		Tachometer		(20～33000) r/min	U_{rel}=0.02%		
		voltage		0.01V～1000V	U_{rel}=0.05%		
		current		0.001A～80A	U_{rel}=0.05%		
		frequency		40Hz～30kHz	U_{rel}=0.01%		
		Power factor		0～1	U=0.0006		
		electric energy		0.01V～1000V；0.001A～80A	U_{rel}=0.05%		
		flow		0.2m³/h～40m³/h	U_{rel}=0.2%		
		wind speed		0.2m/s～20m/s	U_{rel}=6%		
		Nozzle size		(5～250)mm	U=0.03mm		
21	*Temperature Transmitter	Temperature	Calibration Specification of the Temperature Transmitter JJF1183	(-200～800)℃Resistance Thermometer input (without sensor)	U=(0.3～0.6)℃		
				(-200℃～1800)℃ Thermocouple input (without sensor)	U=(0.5～1.6)℃		
				(-80℃～660)℃ Resistance Thermometer input (with sensor)	U=0.3℃		
				(-40～1100)℃ Thermocouple input (with sensor)	U=1.0℃		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
22	*Box type resistance furnace	Temperature	Calibration specification for box type resistance furnace JJF 1376	（300～1100）℃	U=2.2℃		
23	*Baby Incubator	Temperature	Calibration Specification for Baby Incubator JJF 1260	（20～50）℃	U=0.12℃		
		Humidity		（10～90）%RH	U=2.0%RH		
		Oxygen concentration		30%～40%	U=2.0%		
24	*Disintegration Analyzers	Temperature	Calibration Specification for Disintegration Analyzers JJF 1449	（0～100）℃	U=0.34℃		
		Length		(0～300)mm	U=0.12mm		
		time		1s～30min	U_{rel}=0.09%		
		Disintegration time		(1～520)s	U_{rel}=10.6%		
25	Flow Intergration Meters	Flow	Verification Regulation of Flow Intergration Meters JJG1003	(1～100)% range	U_{rel}=0.04%		
26	Surface Thermometer	Temperature	Calibration Specification for the Surface Thermometers JJF1409	（20～300）℃	U=1.0℃		
				(300～400)℃	U=1.2℃		
27	Gas Float Meter	Flow-rate	Verification Regulation of float meter JJG257	5 mL/min～500L/min	U_{rel}=（0.7%~0.4%）		
28	*heat distortion and vicat softening temperature apparatus	temperature	Calibration specification for heat distortion and vicat softening temperature apparatus JJF (zhe) 1051	室温～300℃	U=0.20℃		
		heating rate		(50～120)℃/h	U=0.10℃/h		
		Length		（1.005～10.000）mm	U=2.0 μ m		
		mass		（0.001～500）g	U=0.006g		
				（500～2000）g	U=0.012g		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				（2000～5000）g	U=0.017g		
29	Liquid level measuring device	current	Verification Regulation of theLiquid level measuring device JJG 971	(4～20)mA	U=0.11%FS		
		Level		Horizontal simulation method：(0～2000)mm	U=0.32mm		
				Horizontal simulation method：(2000～10000)mm	U_{rel}=0.016%		
				Vertical measurement method：(0～2000)mm	U=2mm		
		Pressure		(0～100)kPa	U=0.09kPa		
		voltage		(0.1～50)V	U=0.11%FS		
30	*Natural ventilation thermal aging test oven	Temperature	Verification procedure for test equipment of rubber plastic wire and cable - Part6：Natural ventilation thermal aging test oven JB/T 4278.6	（-40～600）℃	U=0.5℃		
		ventilation rate		（8～20)/h	U_{rel}=2%		
31	Precision dew point hygrometer	Dew point temperature	Verification regulation of precision dew point meter JJG499	(-70～20)℃DP	U=0.20 ℃DP		
32	Temperature Block Calibrator	Temperature	Calibration Guideline of the Temperature Block Calibrators JJF1257	(-80～150）℃	U=0.12℃		
				(150～420）℃	U=0.44℃		
				（420～660）℃	U=0.60℃		
				（660～700）℃	U=0.66℃		
				(700～1100）℃	U=1.3℃		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
33	*Digital Thermometer	Temperature	The Working Digital Thermometer JJF(lu)90 JJF(lu)90	（-80～300）℃	U=0.06℃		
				（300～600）℃	U=0.10℃		
				（600～1100）℃	U=1.0℃		
34	*Fabric shrinkage rate testing machine	Temperature	Calibration Specification for Fabric Shrinkage Testers JJF (Fabric) 052	（25～98）℃	U=0.6℃		
		Rotating speed		(50～1200) r/min	U_{rel}=0.28%		
		time		（0～30）min	U=0.3s		
		Level		（100～300）mm	U=0.7mm		
35	*salt fog test chamber	Temperature	Calibration specification for salt fog test chamber JJF (Zhe) 1125	（5～70）℃	U=0.4℃		
		Salt spray deposition rate		(1.0～2.0)mL/（80cm^2•h）	U=0.3mL/(80cm^2•h)		
36	*Drug Dissolution Meter	Temperature	Calibration Specification for Drug Dissolution Meter SQI/JL-JF-62	（0～50）℃	U=0.20℃		
		speed		(20～500) r/min	U_{rel}=0.6%		
		Coaxiality		(0～5) mm	U=0.09mm		
		Shaft oscillation		(0～5) mm	U=0.11mm		
		Cup swing		(0～5) mm	U=0.08mm		
		Depth		(0～30) mm	U=0.21mm		
		Verticality of Dissolution Cup		(-2～92)°	U=0.12°		
		Verticality of Rotary Shaft		(-2～92)°	U=0.12°		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		Sampling Pump Speed		（0～10）mL/min	U=0.1mL/min		
37	Thermal Mass Gas Flowmeters	Flow	Thermal Mass Gas Flowmeters JJG1132	（5～50000）mL/min	U_{rel}=0.44%		
38	Temperature Switchs	Temperature	Calibration Specification for Temperature Parameters of Temperature Switchs JJF 1632	(-30～300)℃	Action Temperature:U=0.3℃； On-off Temperature Difference:U=0.20℃		
39	*Washing fastness testing machine	Temperature	Calibration Specification for Washing Fastness Testing Machine JJF (Textile) 026	（0～150）℃（deviation）	U=0.7℃		
				（0～150）℃（Indication error）	U=0.7℃		
				（0～150）℃（Volatility）	U=0.6℃		
		Rotate speed		40r/min	U=0.20r/min		
		Time		30min、45min	U=2.0s		
		capacity		550mL	U=4mL		
		length		125mm（Cup depth）	U=1.0mm		
				45mm（The distance from the shaft core to the bottom of the test cup）	U=1.0mm		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
40	*Temperature and humidity standard chambers	Temperature	Calibration specification for Temperature and humidity standard chambers JJF 1564	Temperature Uiformity：（5～50）℃，Temperature Fluctuation：（5～50）℃，Temperature rate of change：（0～5）℃/min	Temperature Uiformity:U=0.05℃;Temperature Fluctuation:U=0.02℃;Temperature rate of change:U=0.03℃/min		
		Humidity		Humidity Uiformity：（10～90）%RH，Humidity Fluctuation:（10～90）%RH，Humidity rate of change:（0～10）%RH/min	Humidity Uiformity:U=0.5%RH;Humidity Fluctuation:U=0.2%RH;Humidity rate of change:U=0.3%RH/min.		
41	*Infrared Thermometers for Measurement of Human Temperature	Temperature	Calibration specification of Infrared Thermometers for Measurement of Human Temperature JJF 1107	（22～40）℃	U=0.10℃		
42	*Illumination test chamber	Illuminance	Calibration Specification for the Equipment of the Environmental Testing for Differential Pressure and Wind Speed and illuminance SQI/JL-JF-47	（1～3000)lx	U=49lx		
43	Copper/Copper-Nickel Thermocouple	Temperature	V.R. of Working Copper / Copper-Nickel Thermocouple JJG368	（-80～300）℃	U=0.3℃		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
44	Infrared devices for instant screening of human skin temperature	Temperature	Calibration Specification of Infrared Thermometers for Measurement of Human Temperature JJF 1107	（22～40）℃	U=0.10 ℃		
45	Sheathed Thermocouple	Temperature	Calibration Specification for Sheathed Thermocouples JJF 1262	（-40～300）℃	U=0.3℃		
				（300～400）℃	U=1.1℃		
				（400～1100）℃	U=1.2 ℃		
46	Temperature Data Acquisition Instruments	temperature	Calibration Specification of Temperature Data Acquisition Instruments JJF 1366	（-80～500）℃	U=0.05℃		
47	Temperature Calibration Devices for Polymerase Chain Reaction Analyzers	Temperature	Calibration Specification of Temperature Calibration Devices for Polymerase Chain Reaction Analyzers JJF 1821	（0～120）℃	U=0.04 ℃		
48	*Dissolution Testers	Temperature	Calibration Specification for Dissolution Testers JJF(zhe)1096	(0～50)℃	U=0.10℃		
		Revolution Speed		(50～200)rpm	U_{rel}=0.6%		
		Length		coaxiality:(0～5)mm	U=0.06mm		
				swing scope:(0～5)mm	U=0.08mm		
49	Thermistor thermometers	Temperature	Calibration Specification of Thermistor Thermometers JJF 1379	（-50～200）℃	resolution0.001℃： U=0.030 ℃ ，resolution0.01℃： U=0.06℃，resolution0.1℃： U=0.10℃		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
50	Resistance-capacitance dew point hygrometer	Dew point temperature	Calibration specification for dew point hygrometer with resistance-capacitance method JJF 1272	(-70～20)℃DP	U=0.4℃DP		
51	*Temperature Indicators	Temperature	Calibration Specification for Temperature Indicators JJF1664	Digit thermal resistor(-200～600)℃	U=(0.10～0.3)℃		
				Digit Thermocouple (-200～1800)℃	U=（0.5～1.6）℃		
		Temperature		Analog thermal resistor(-200～600)℃	U=(0.3～0.5)℃		
				Analog Thermocouple (-200～1800)℃	U=（0.6～1.6）℃		
52	*Divided Flow Humidity Generator	Temperature	Calibration Specification for Divided Flow Humidity Generator JJF(military)42	（5～50）℃	U=0.20℃		
		Dew point temperature		（-70～20）℃DP	U=0.34℃DP		
		Relative humidity		（10～90）%RH	U=1.6%RH		
53	*Liquid constant temperature testing equipment	Temperature	Measurement Specification for Temperature Performance of Liquid Constant Temperature Testing Equipment JJF 2019	（-80～300）℃	U=（0.05～0.3）℃		
54	*Short Base Metal Thermocouples	Temperature	Calibration Specification for Short Base Metal Thermocouples JJF 1991	（-40～300）℃	U=0.5℃		
				（300～400）℃	U=1.1 ℃		
				（400～1000）℃	U=1.2 ℃		
55	*Stream Sterilizer	Temperature	Calibration Specification for Temperature and Pressure parameters of Stream	（20～150）℃	U=0.15℃		
		Pressure		（0～400）kPa	U=1.7 kPa		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		Time	Sterilizer JJF (Shanghai) 60	（10～3600）s	U=0.4 s		
56	Distributed fiber optic thermometer	Temperature	Calibration specification for distributed fiber optic thermometers JJF 1630	（-20～100）℃	U=0.20℃		
57	Passive Medical Cold Boxes	Temperature	Calibration Specification for Temperature Parameter of Passive Medical Cold Boxes JJF 1676	（-20～20）℃	U=0.20℃		
58	Calibration Specification for Surface Temperature Sources	Temperature	Calibration Specification for Surface Temperature Sources JJF（Lu）137	Stability：（30～400）℃	U=0.12℃		
				Uniformity：（30～400）℃	U=0.3℃		
				Indication error：（30～400）℃	U=0.26℃		
59	Thermometers of WBGT-index Meters	Temperature	Calibration Specification for Thermometers of WBGT-index Meters JJF 1407	（5～120）℃	U=0.3℃		
60	*Large Steam Sterilizers	temperature	Calibration Specification for Temperature，Pressure and Time Parameters of Large Steam Sterilizers JJF 2088	（100～150） ℃	U=0.14℃		
		time		（1～3600）s	U=1s		
		pressure		（70～400）kPa.abs	U=1.2kPa		
61	*Forced air heat aging test oven	Temperature	Verification procedure for test equipment of rubber plastic wire and cable -Part 13:Forced air heat aging test oven JB/T 4278.13	（-80～300）℃	U=0.5℃		
		Air change rate		（0～200）time/h	U=1 次/h		
		Time		1ms～3600s	U=0.6s		
62	*Dust and Sand Testing Equipments	Temperature	Calibration Specification for Dust and Sand Testing Equipments JJF(JG)18	（23～71）℃	U=0.36℃		
		Humidity		（10～30）%RH	U=1.4%RH		

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		Wind velocity		（1.2～29）m/s	U=（0.41～0.65）m/s		
		Dust concentration		（0.2～12）g/m^3	U=（0.09～0.9）g/m^3		
		Sand and dust sedimentation rate		6.0g/(m^2•d)	U=0.25g/(m^2•d)		
63	Temperature and Humidity Itinerant Detectirg instruments	Temperature	Calibration Specification for Temperature and Humidity Itinerant DetectingInstruments JJF 1171	（-80～300）℃	U=0.04℃		
				（300～1100）℃	U=1.2℃		
		Humidity		（10～90）%RH	U=1.0%RH		
64	*Salt Mist Testing Chambers	Temperature	Calibration Specification for Salt Mist Testing Chambers JJF 2168	（5～70）℃	U=0.2℃		
		Time		（0～10）min	U=0.4min		
		Salt mist sedimentation rate		（1.0～2.0）mL/（h • 80cm^2）	U=0.04mL/（h • 80cm^2）		
65	*Atmospheric pressure test chambers	Temperature	Calibration Specification for Atmospheric pressure test chambers JJF 2119	（-80～80 ）℃	U=0.4℃		
		Temperature		（80～200）℃	U=0.7℃		
		Pressure		（0.1～2.0）kPa	U=0.10 kPa		
				（2.0～25.0）kPa	U=0.40 kPa		
				（25.0～120.0）kPa	U=1.4 kPa		
		Time		（10～3600）s	U=0.5s		
66	*Thermocouple Calibration Furnaces	Temperature	Testing Specification for Temperature Uniformityin Thermocouple Calibration Furnaces JJF 1184	Axial temperature difference：（300～1084）℃	U=0.27℃		

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				Radial temperature difference：（300～1084）℃	U=0.14℃		
67	*Constant temperature shaking incubator	Temperature	Calibration Specification for Constant temperature shaking incubato JJF(SH) 086	Error：(20～80)℃	U=0.2℃		
				Uniformity：(20～80)℃	U=0.2℃		
				Volatility(20～80)℃	U=0.2℃		
		Frequency		（20～500）次/min	U=2 次/min		
		Concentration		Error：（1.6～15）%	U=0.5%		
				Volatility：（1.6～15）%	U=0.03%		
二、Mechanics							
1	*Moisture Meters	Quality	Verification Regulation of Thermogravimetric Moisture Meters JJG 658	(0～1)kg	U=(0.2～10)mg		
		Moisture		(0～100)%	U=0.09%		
2	*Electronic Balanc	Quality	Verification Regulation of Electronic Balance JJG 1036,Calibration Specification of Electronic Balances JJF1847	（1～100）mg	U=(0.004～0.005) mg		
				100mg～1g	U=(0.005～0.008) mg		
				（1～100）g	U=（0.008～0.06）mg		
				100g～1kg	U=（0.06～2）mg		
				（1～100）kg	U=2mg～0.5g		
				（100～200）kg	U=（0.5～5）g		

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3	*Flow Meters	Flow	Specification for on-line flow Calibration by master meter method SQI/JL-JF-54	（0.2～40）m^3/h，DN（8-50）mm	U_{rel}=0.20%	Accredited only for Water Medium	
4	Tachometer	rotate speed	Verification Regulation of Tachometer JJG 105	(20～60000) r/min	U_{rel}=0.02%		
5	*Weights	Quality	Verification Regulation of Weights JJG 99	F_1 Class：1mg～500mg	U=(0.004～0.010)mg	Field calibration is not carried out for grade F2 and above	
				F_1 Class：1g～500g	U=(0.02～0.4)mg		
				F_2 Class:1mg～500mg	U=(0.02～0.03)mg		
				F_1 Class：1kg～5kg	U=(0.6 ～4)mg		
				F_2 Class:1g～500g	U=（0.03 ～0.6）mg		
				F_2 Class:1kg～5kg	U=(2 ～8)mg		
				M_1 Class:1mg～500mg	U=(0.02～0.08)mg		
				M_1 Class:1g～500g	U=(0.3～3)mg		
				M_1 Class:1kg～25kg	U=5mg～0.2g		
6	*Electromagnetic flowmeter	Flow	Calibration Specification for Electromagnetic Flowmeters JJF（Su）228	(8～40)m^3/h,DN50	U_{rel}=3.6%		
				(30～400)m^3/h,DN(100～150)	U_{rel}=2.8%		
				(80～400)m^3/h,DN200	U_{rel}=2.5%		
				(240～1200)m^3/h,DN(250～300)	U_{rel}=2.4%		

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7	*Mass flowmeter	flow	Online calibration specification for Mass flowmeters by Mass method SQI/JL-JF-43	（0.01～40）m^3/h, DN(4-50)	U_{rel}=0.4%	Accredited only for Water Medium	
8	*Mechanical Balance	Quality	Verification Regulation of Mechanical Balance JJG 98	(0～20)g e=0.01mg	U=0.03mg		
				(0～200)g e=0.1mg	U=0.08mg		
				(1～5)kg e=1mg～5mg	U=(0.8～1.6)mg		
				(20～200)kg e=（10～100）mg	U=(0.15～2.4)g		
9	Force Transducers	force	Verification Regulation of Force Transducers JJG 391	0.1N～20N	U_{rel}=0.05%		
				20N～10kN	U_{rel}=0.02%		
				10kN～1000kN	U_{rel}=0.03%		
10	*Falling Weight Impact Testing Machines	speed	Calibration Specification for Falling Weight Impact Testing Machines JJF 1445	(0.1～30)m/s	U_{rel}=0.8%		
		height		（0.01～5）m	U=2mm		
		Quality		（0.01～35）kg	U=1g		
		Radius		（0.5～500）mm	U=0.06mm		
		energy loss		（0.01～100）%	U_{rel}=1.5%		
11	Standard Glass Hydrometers	Density	Verification Regulation of Standard Glass Hydrometers JJG 86	(650～1500) kg/m^3	U=0.20 kg/m^3		
12	Vibration Displacement Transducer	displacement	Verification Regulation of Vibration Displacement Transducer JJG 644	0.002mm～1000mm (20Hz～2000Hz)	U_{rel}=1.4%		
		Sensitivity		0.002mm～1000mm (0.2Hz～10kHz)	U_{rel}=1.4%		

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13	Working Glass Hydrometers	Density	Verification Regulation of Working Glass Hydrometers JJG 42	(650～2000) kg/m^3	U=0.4 kg/m^3		
		Soil Degree		（-5～50）S°	U=0.20 S°		
		alcohol concentration		(0～100) %	U=0.4%		
14	*Falling Body Type Shock Testing Machine	acceleration	Verification Regulation of Shock and Bump Testing Machines JJG 1174	（100～5000） m/s^2	U_{rel}=4%		
		Pulse width		（0.05～240）ms	U_{rel}=0.8%		
15	Working Glass Container	Capacity	Verification Regulation of Working Glass Container JJG196	(0.1～100)mL	U=(0.002～0.019)mL		
				(100～500)mL	U=(0.019～0.08)mL		
				（500～2000）mL	U=(0.08～0.26)mL		
16	*Portable Vibration Calibrator	acceleration	Verification Regulation of Portable Vibration Calibrator JJG 1062	（0.5～500） m/s^2	U_{rel}=3%		
		displacement		(1～25)mm	U_{rel}=3%		
		Frequency		(10～2000)Hz	U=0.6Hz		
17	Locomotive Pipett	Capacity	Verification Regulation of Locomotive Pipette JJG646	（0.1～50） μL	U=(0.02～0.2) μL		
				(50～500) μL	U=(0.2～0.5) μL		
				（500～10000） μL	U=(0.5～2.2) μL		
18	*Laboratory Oscillation-type Liquid Density Meters	Density	Calibration Specification for Laboratory Oscillation-type Liquid Density Meters JJF 2165	（0.65～2）g/cm^3	U=（0.0002～0.0003）g/cm^3		
19	*Equipment of Power Measuring	torque	Verification Regulation of Equipment of Power Measuring JJG 653	(0.01～108.2）Nm	U_{rel}=0.28%		
				（108.2～3000）Nm	U_{rel}=0.27%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				（3000～10000）Nm	U_{rel}=0.30%		
		Rotate Speed		（20～20000）r/min	U_{rel}=0.17%		
20	*MassComparators	Mass	Calibration Specification for Mass Comparators JJF1326	repeatability：(0～1000)g	U=(2×10^{-3}～2)mg	/	
		Mass		Eccentric load error：(0～1000)g	U=(3×10^{-3}～3)mg		
		Mass		Partial indication error：(0～1000)g	U=(5×10^{-3}～4)mg		
21	Shore D Durometer	Hardness	Verification Regulation of Shore D Durometer JJG1039	0～100HD	U=0.14HD		
		Force		（0.1～50）N	U_{rel}=0.2%		
		Length		(0～10)mm	U=6 μ m		
		Angle		(0～90)°	U=0.03°		
22	Electromagnetic Velocity Transducer	speed	Verification Regulation of Electromagnetic Velocity Transducer JJG 134	(0.01～20)m/s (20Hz～2000Hz)	U_{rel}=1.1%		
		Sensitivity		1cm/s～10cm/s (20Hz～2000Hz)	U_{rel}=1.1%		
23	*Metallic Rockwell Hardness Testers	Hardness	Standard Test Methods for Rockwell Hardness and Rockwell Superficial Hardness of Metallic Materials ASTM E18,Verification Regulation of Metallic Rockwell Hardness Testers(Scales A,B,C,D,E,F,G,H,K,N,T) JJG 112	(80～88)HRA	U=0.6HRA		
				(85～95)HRB	U=0.8HRBw		
				(60～70)HRC	U=0.6HRC		
				(35～55)HRC	U=0.6HRC		
				(20～30)HRC	U=0.7HRC		
				(89～91)HR15N	U=0.7HR15N		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				(74～80)HR30N	U=0.7HR30N		
				(42～54)HR30N	U=0.9HR30N		
				(32～61)HR45N	U=0.9HR45N		
				(88～93)HR15T	U=1.2HR15TW		
				(70～82)HR30T	U=1.2HR30TW		
				(55～72)HR45T	U=1.7HR45TW		
		Force		（10kgf～150kgf）(100～1500) N	U_{rel}=0.3%		
		Depth		（0～1）mm	U=0.6 μ m		
		Angle		0～180°	U=0.03°		
		Size		（0～1）mm	U=6 μ m		
		Time		（1～60）s	U_{rel}=1.0%		
24	Standard Dynamometers	force	Verification Regulation of Standard Dynamometers JJG 144	0.1N～20N	U_{rel}=0.05%		
				20N～10kN	U_{rel}=0.02%		
				10kN～1000kN	U_{rel}=0.03%		
25	*Calibration Instrument for Torque Wrenches	torque	Verification Regulation of Calibration Instrument for Torque Wrenches JJG 797	（0.02～1）Nm	U_{rel}=0.3%		
				（1～3000）Nm	U_{rel}=0.13%		
26	*Torsion Testing Machines	torque	Verification Regulation of Torsion Testing Machines JJG 269	（0.05～50000）Nm	U_{rel}=0.22%		
		angle		（0.1～50）°	U=0.01°		
				（50～1080）°	U_{rel}=0.02%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		Torsional angular velocity		（0.1～6）°/min	U=0.01°/min		
				（6～1080）°/min	U_{rel}=0.22%		
		Coaxiality		（0.01～1）mm	U=0.02mm		
		Length		（0～150）mm	U=0.03mm		
27	*Analogue Indicating Weighing Instruments	Weight	Verification Regulation of Analogue Indicating Weighing Instruments JJG 13	（0.2～8）kg	U=（3.3～3.7）g		
28	*Non-self-indicating Weighing Instruments	Weight	Verification Regulation of Non-self-indicating Weighing Instruments JJG 14	(0.04～3)kg	U=(0.5 ～0.6)g		
				(0.1～5)kg	U=(0.5 ～0.6)g		
				(0.1～10)kg	U=(0.5 ～0.8)g		
				(1～100)kg	U=(6～11)g		
				(4～300)kg	U=(21～38)g		
				(4～500)kg	U=(21～59)g		
				(10～1000)kg	U=(0.05～0.12)kg		
				(20～2000)kg	U=(0.05～0.24)kg		
				(20～3000)kg	U=(0.05～0.42)kg		
				(40～5000)kg	U=(0.1～0.6)kg		
				(5～10000)kg	U=(0.2～1.4)kg		
				(200～30000) kg	U=(0.4～4.5)kg		
				(400～60000) kg	U=U=(2.9～12)kg		

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29	*Digital Indicating Weighing Instruments	Weight	Verification Regulation of Digital Indicating Weighing Instruments JJG 539	(2～300)g	U=(10～30) mg		
				(2～500)g	U=(10～40) mg		
				(2～1000)g	U=(10～60) mg		
				(0.02～3)kg	U=(0.3～0.4)g		
				(0.04～6)kg	U=(0.3～0.9)g		
				(0.1～15)kg	U=(1.2～1.5)g		
				(0.2～30)kg	U=(3～4)g		
				(0.4～60)kg	U=(6～7)g		
				(1～150)kg	U=(6～10)g		
				(2～300)kg	U=(20～40)g		
				(2～500)kg	U=(20～50)g		
				(4～1000)kg	U=(0.07 ～0.13)kg		
				(10～2000)kg	U=(0.1～0.4)kg		
				(20～3000)kg	U=(0.1～0.5)kg		
				(20～5000)kg	U=(0.1～0.6)kg		
				(200～10000) kg	U=(2～3)kg		
				(200～20000) kg	U=(2～4) kg		
				(200～30000) kg	U=(2～5) kg		
				(400～60000) kg	U=(3～11)kg		

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				(400～80000) kg	U=(3～12)kg		
				(400～100000) kg	U=(3～14)kg		
30	*Automatic Gravimetric Filling Instruments	Weight	Verification Regulation of Automatic Gravimetric Filling Instruments JJG 564	X（0.1）Class，（0.01～200）kg	U_{rel}=(0.25～0.02)%		
				X（0.2）Class，（0.01～200）kg	U_{rel}=(0.25～0.02)%		
				X（0.5）Class，（0.01～200）kg	U_{rel}=(0.26～0.03)%		
				X（1）Class，（0.01～200）kg	U_{rel}=(0.27～0.06)%		
				X（2）Class，（0.01～200）kg	U_{rel}=(0.30～0.12)%		
31	*Quantitative Filling Machine for Liquid Material	Weight	Verification Regulation of Quantitative Filling Machine for Liquid Material JJG 687	（50～32000）g	U_{rel}=(1.2～0.01)%	use the weighing method to verify the volume of the filling machine	
				（32～150）kg	U_{rel}=(0.20～0.08)%		
		Volume		（50～32000）mL	U_{rel}=（1.2～0.04）%		
				（32～150）L	U_{rel}=（0.28～0.10）%		
32	*Precise Pressure Gauges	pressure	Verification Ragulation of Elastic Element Precise Pressure Gauges and Vacuum Gauges JJG49	（-0.1～0.01）MPa	U=(0.08～0.13)%FS		
				（0.01～250）MPa	U=（0.08～0.13）%FS		
33	*Elastic Element Pressure Gauges，Pressure-Vacuum Gauges and Vacuum Gauges for General Use	pressure	Verification Ragulation of Elastic Element Pressure Gauges,Pressure-Wacuum Gauges and Vacuum Gauges for General Use JJG52	（-0.1～0.01）MPa	U=0.34%FS		
				（0.01～250）MPa	U=0.34%FS		

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34	*Digital Pressure Gauges	pressure	Verification Ragulation of Digital Pressure Gauges JJG875	（-0.1～0.01）MPa	U=(0.01～0.07)%FS		
				（0.01～250）MPa	U=(0.01～0.07)%FS		
35	*Pressure Regulators with Bourdon Tube Pressure Gauge	pressure	Calibration Specification for Pressure Regulators with Bourdon Tube Pressure Gauge JJF1328	0.005MPa～25MPa	U_{rel}=1%		
36	*Pressure Controllers	pressure	Verification Ragulation of Pressure Controllers JJG544	（-0.1～0.01）MPa	U=0.12%FS		
				（0.01～60）MPa	U=0.12%FS		
37	*Pressure Transmitter	pressure	Verification Ragulation of the Pressure Transmitter JJG882	（-0.1～0.01）MPa	U=0.02%FS		
				（0.01～250）MPa	U=0.02%FS		
38	Industrial Thermal Conductivity Vacuum Gauges	Vacuum	Calibration Specification of Industrial Thermal Conductivity Vacuum Gauges JJF1050	（2.0×10^{-1}～1.0×10^{5}）Pa	U_{rel}=4%		
39	Channel Reference Leaks	Flow	calibration specification of channel reference leaks SQI/JL-JF-40	（0.1～60）mL/min	U_{rel}=3%		
40	*Working Dynamometers	force	Verification Regulation of Working Dynamometers JJG455	1.96mN～2000kN	U_{rel}=0.2%		
41	*Dedicated work force measuring machine	force	Calibration specification for dedicated working dynamometer JJF 1134	0.1N～2000kN	U_{rel}=0.4%		
42	*electronic universal testing machine	force	Verification Regulation of Electronic Universal Testing Machine JJG475	9.8 μN～500kN	U_{rel}=0.18%		
				500kN～2000kN	U_{rel}=0.50%		
				2000kN～10000kN	U_{rel}=0.50%		

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		concentricity		（0.1～40）mm	U=0.021mm		
		Displacement		(0～1000)mm	U=(8～14) μ m		
		speed		(0.001～100)mm/s	U_{rel}=0.2%		
43	*Tension , Compression and Universal Testing Machine	force	Verification Regulation of Tension , Compression and Universal Testing Machines JJG139	9.8 μ N～500kN	U_{rel}=0.18%		
				500kN～2000kN	U_{rel}=0.50%		
				2000kN～10000kN	U_{rel}=0.50%		
		Displacement		0.1mm～0.3mm	U=0.72 μ m		
				0.3mm～800mm	U_{rel}=0.2%		
		Concentricity		（0.1～40）mm	U=0.021mm		
44	*Material Testing Machine	force	Standard Practices for Force Calibration and Verification of Testing Machines ASTM E4	0.1N～2000kN	U_{rel}=0.4%		
45	*Material Testing Machine	displacement	Standard Practices for Verification of Displacement Measuring Systems and Devices Used in Material Testing Machines ASTM E2309/E2309M	(0.001～750)mm	U=0.06mm		
				(750～1000)mm	U=0.78mm		
				(1000～2000)mm	U=0.80mm		
46	*Testing Machine(Alignment)	Alignment	Standard Practice for Verification of Testing Frame and Specimen Alignment Under Tensile and Compressive Axial Force Application ASTM E1012	(0.001～2450)μm/m	U_{rel}=1.4%		

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47	*material testing machine	speed	Standard Practices for Verification of Speed for Material Testing Machines ASTM E2658	(0.001～100)mm/s	U_{rel}=0.2%		
48	*Electric-hydraulic Servo Universal Test Machine	force	Verification regulation of electro hydraulic servo universal testing machine JJG 1063	9.8 μN～500kN	U_{rel}=0.18%		
				500kN～2000kN	U_{rel}=0.50%		
				2000kN～3000kN	U_{rel}=0.50%		
		concentricity		（0.1～40）mm	U=0.021mm		
		Displacement		0.1mm～0.3mm	U=0.72 μm		
				0.3mm～800mm	U_{rel}=0.2%		
49	*Static uniaxial testing machine	force	Metallic materials-Verification of static uniaxial testing machines-Part1 Tensioncompression testing machines-Verification and calibration of the force-measuring system ISO 7500-1	1.96mN～2000kN	U_{rel}=0.4%		
		concentricity		（0.1～40）mm	U=0.021mm		
50	*high temperature creep and endurance strength testing machine	force	Verification regulation of high temperature creep and endurance strength testing machine JJG 276	0.1mN～2000kN	U_{rel}=0.16%		
		Temperature		(-80～200)℃	U=0.3℃		
				(200～300)℃	U=0.6℃		
				(300～500)℃	U=1.2℃		
				(500～1100)℃	U=2.1℃		
		concentricity		（0.01～12）%	U_{rel}=1.2%		

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				（12～15）%	U_{rel}=0.9%		
				（15～20）%	U_{rel}=0.6%		
		Displacement		（0.01～0.3）mm	U=0.72 μm		
				（0.3～50）mm	U_{rel}=0.17%		
				（50～800）mm	U_{rel}=0.20%		
		Time		（1～3600）s	U=0.13s		
51	*Fatigue Testing Machines	force	Axial Force Fatigue Testing Machines JJG 556,Standard Practice for Verification of Constant Amplitude Dynamic Forces in an Axial Fatigue Testing System ASTM E467	0.1mN～10MN	U_{rel}=0.16%		
		concentricity		（0～12）%	U_{rel}=1.2%		
52	*Torque Wrenches	torque	Verification Regulation of Torque Wrenches JJG707	0.06Nm～2Nm	U_{rel}=2%		
				2Nm～3000Nm	U_{rel}=0.9%		
53	*Metal Brielle Hardness Tester	Hardness	Verification Regulation of Metal Brielle Hardness Tester JJG150	(50～125)HBW	U_{rel}=1.9%		
				(125～225)HBW	U_{rel}=1.4%		
				(225～650)HBW	U_{rel}=1.2%		
54	*Metal Rockwell Hardness Tests	Hardness	Verification Regulation of Metal Rockwell Hardness Tests(A、B、C、D、E、F、G、H、R、N、T Scale) JJG112	(20～95)HRA，HRB，HRC	U=(0.6～0.8)HR		
				（32～91）HRN（34～93）HRT	U=(0.7～0.9)HRNU=(1.2～1.7)HRTw		
		Force		(9.8～1571)N	U_{rel}=0.3%		
		Length		（0～4） μm	U=0.6 μm		

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		Angle		（0～150）°	U=0.03°		
55	Leeb Hardness Tester	Hardness	Verification Regulation of Leeb Hardness Tester JJG747	（330～890）HLD	U=8HLD		
56	*Metal Vickers Hardness Tester	Hardness	Verification Regulation of Metal Vickers Hardness Tester JJG151	HV5～HV100，(50～225)HV	U_{rel}=2.7%		
				HV5～HV100，(225～1000)HV	U_{rel}=2.0%		
				HV0.2～HV5，(50～225)HV	U_{rel}=5.3%		
				HV0.2～HV5，(225～1000)HV	U_{rel}=4.0%		
				HV0.05～HV0.2，(50～225)HV	U_{rel}=5.1%		
				HV0.05 ～HV0.2，(225～1000)HV	U_{rel}=6.0%		
57	Shore A Durometers	Hardness	Verification Regulation of Shore A Durometers JJG304	(0～100) HA	U=0.2HA		
		Force		（0.1～50）N	U_{rel}=0.2%		
		Length		(0～10)mm	U=5 μ m		
		Angle		(10～40)°	U=0.04°		
58	*Hydraulic Vibration Testing System	Frequency	Verification Regulation of Hydraulic Vibration Testing System JJG 638	（0.1～2000）Hz	U_{rel}=0.012%		
		Displacement		（0.1～50）mm （0.1～10k）Hz	U_{rel}=3%		
		acceleration		（0.05～1000）m/s² （0.1～10k）Hz	U_{rel}=3%		
		Velocity		（0.01～20）m/s （0.1～10k）Hz	U_{rel}=1.1%		

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59	*Metallic Webster Hardness Testing Machines	Hardness	Verification Regulation for Metallic Webster Hardness Testing Machines JJG 944	（5～18）HW	U=0.3HW		
		Length		（0.02～1）mm	U=4 μ m		
		Angle		（0～180）°	U=0.03°		
		Size		（0.02～50）mm	U=6 μ m		
60	*Mechanical Vibration Generator for Testing	Frequency	Verification Regulation of Mechanical Vibration Generator for Testing JJG189	(10~200)Hz	U=0.6Hz		
		Displacement		(1～50)mm (0.1～200)Hz	U_{rel}=3%		
		acceleration		（0.5～1000）m/s²(0.1～200)Hz	U_{rel}=3%		
61	*Microhardness Testing Machine in International Rubber Hardness Degree	Length	Verification Regulation for Microhardness Testing Machine in International Rubber Hardness Degree JJG 898	（0～10）mm	U=6 μ m		
		Hardness		(30～85)IRHD	U=1.3IRHD		
		Force		0.2mN～10N	U_{rel}=0.2%		
62	*Plastic Ball Indentation Hardness Testing Machine	Force	Verification Regulation for Plastic Ball Indentation Hardness Testing Machine JJG 369	（4.9～961）N	U_{rel}=0.3%		
		Size		（0～15）mm	U=6 μ m		
		Depth		（0～1）mm	U=0.6 μ m		
		Time		（1～120）s	U_{rel}=1.0%		
63	Piezoelectric Accelerometer	acceleration	Verification Regulation of Piezoelectric Accelerometer JJG233	（0.02～100)m/s²（0.2～1k）Hz	U_{rel}=1.1%		
				（2～100)m/s²（1k～2k）Hz	U_{rel}=2.0%		
				（100～20000)m/s² （2k～10k）Hz	U_{rel}=3.0%		

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				（20000～100000)m/s^2（5k～10k）Hz	U_{rel}=5.0%		
64	*Plastic Rock Well Hardness Testing Machine	Hardness	Verification Regulation for Plastic Rock Well Hardness Testing Machine JJG 884	(70～94)HRE	U=1.1HRE		
				(100～120)HRL	U=0.6HRL		
				(85～110)HRM	U=0.8HRM		
				(114～125)HRR	U=0.7HRR		
		Force		（50～2000）N	U_{rel}=0.3%		
		Depth		（0～1）mm	U=0.6 μ m		
		Size		（0～800）mm	U=6 μ m		
		Time		（1～3600）s	U_{rel}=1.0%		
65	*Verification Regulation of Vibration Meters	acceleration	Verification Regulation of Measuring Vibration Instruments JJG676	(2～100000)m/s^2（0.2～10k）Hz	U_{rel}=3.0%～5.0%		
		velocity		(0～20)m/s （0.2～10k）Hz	U_{rel}=1.1%～3.0%		
		displacement		(0.002～1000)mm（0.2～10k）Hz	U_{rel}=1.4%～3.0%		
66	*Pencil Hardness Testers	Mass	Calibration Specification for Pencil Hardness Testers JJF(石化）007	（0.1～1000）g	U=0.02g		
				（1000～2000）g	U=0.13g		
		Angle		（0～90）°	U=0.02°		
67	*Electrodynamic vibration testing systems	Frequency	Verification Regulation of Electrodynamic Vibration Testing System JJG 948	（0.1～2000）Hz	U_{rel}=0.012%		
		Displacement		（1～50）mm （0.1～10k）Hz	U_{rel}=3%		

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		acceleration		（0.05～1000）m/s^2 （0.1～10k）Hz	U_{rel}=3%		
68	Metallic Rockwell Hardness Reference Blocks	Hardness	Verification Regulation of Metallic Rockwell Hardness Reference Blocks (Scales A,B,C,D,E,F,G,H,K,N,T) JJG 113	（20～88）HRA	U=0.56 HRA		
				（85～100）HRB	U=0.56HRB		
				（20～30）HRC	U=0.56HRC		
				（35～55）HRC	U=0.56HRC		
				（60～70）HRC	U=0.56HRC		
				（70～91）HR15N	U=0.84HR15N		
				（42～80）HR30N	U=0.84HR30N		
				（73～93）HR15T	U=0.84HR15T		
				（82～82）HR30T	U=0.84HR30T		
				（55～72）HR45T	U=0.84 HR45T		
				（32～61）HR45N	U=0.84HR45N		
69	*Bump Testing Machines	acceleration	Verification Regulation of Shock and Bump Testing Machines JJG 1174	（100～5000） m/s^2	U_{rel}=4%		
		Pulse width		（0.05～240）ms	U_{rel}=0.8%		
70	Aneroid Barometer	Pressure	Verification Regulation of Aneroid Barometer and Aneroid Barograph JJG 272	（500～1060）hPa	U=0.4hPa		
71	Digital Barometers	Pressure	Verification Regulation of Digital Barometers JJG1084	（100～1200）hPa	U=0.12hPa		
72	Multi-Component	Force	Calibration Specification for Multi-component Force Transducer JJF1560	0.1N～1MN	U_{rel}=0.05%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
73	*Laser Vibrometers	Frequency	Calibration Specification for Laser Vibrometers JJF 1219	(0.1～200k)Hz	U_{rel}=3.4×10^{-5}		
		Voltage		10mV～10V (0.1～200k)Hz	U_{rel}=0.4%		
		acceleration		(0.1～100000) m/s^2(0.1～200k)Hz	U_{rel}=0.5%		
74	*Temperature/Humidity/Vibration Combined Environmental Testing System	acceleration	Calibration Specification for Temperature/Humidity/Vibration Combined Environmental Testing System JJF1270	（0.5～1000）m/s^2,(20Hz～2000Hz)	U_{rel}=3%		
		Temperature		（-75～200）℃	U=0.3℃		
		Humidity		（10～90）%RH	U=1.2%RH		
		Heating rate		（0.5～60）℃/min	U=（0.12～0.38）℃/min		
		The wind speed		（0.5～20）m/s	U=（0.08～0.60）m/s		
		Dew point temperature		(-20～20)℃DP	U=0.2℃DP		
75	*Pendulum Impact Testing Machines	Energy	Verification Regulation of Pendulum Impact Testing Machines JJG 145	Direct method of measurement:(0.25～750)J	U_{rel}=0.8%		
				Indirect method of measurement: （0.25-40）J	U_{rel}=2.0%		
				Indirect method of measurement: （40-300）J	U_{rel}=2.4%		
				Indirect method of measurement: （300-750）J	U_{rel}=2.3%		
		Distance		(0～0.5)mm	U=6 μ m		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		Center Distance		(50～1000)mm	U_{rel}=0.15%		
		Force		（1～10000）N	U_{rel}=0.4%		
		Size		（0～150）mm	U=0.04mm		
		Angle		（0.1～180）°	U_{rel}=0.1%		
		Initial potential energy of pendulum		（0.5～750）J	U_{rel}=0.2%		
		Impact velocity		（0.1～10）m/s	U_{rel}=0.8%		
76	*Electric and Pneumatic Torque Wrenches	Torque	Calibration Specification for Electric and Pneumatic Torque Wrenches JJF1610	（0.1～3000）Nm	U_{rel}=1.5%		
77	Dynamic Force Sensors	Static force value	Verification Regulation of Dynamic Force Sensors JJG632	10N～1000kN	U_{rel}=0.4%		
		Dynamic force value		10N～1000kN（0.1Hz～200kHz）	U_{rel}=0.6%～2.0%		
		Frequency		0.1Hz～200kHz	U_{rel}=0.01%		
78	Elevator Overspeed Governor Tester	speed	Calibration Specification for Elevator Overspeed Governor Testers JJF 1374	(0.1000～20.000)m/s	U_{rel}=0.03%～0.32%		
79	Vickers Hardness Refernce Blocks	Hardness	Verification Regulation for Vickers Hardness Refernce Blocks JJG148	（700～800）HV1	U_{rel}=1.4%		
				(700～800)HV0.5	U_{rel}=1.6%		
				(700～800)HV0.2	U_{rel}=2.3%～2.5%		
				(400～600)HV0.1	U_{rel}=2.5%		

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				(175～225)HV0.05	U_{rel}=3.2%		
80	*standard vibrators	acceleration	standard vibrators JJG298	（0.1～1000）m/s^2 (0.1～10k)Hz	U_{rel}=3%		
		Frequency		(0.2～10k)Hz	U=2×10^{-4}Hz		
				(0.2～10k)Hz	U_{rel}=0.01 %		
81	*Buoy Type Oxygen Inhalers	Pressure	Verification Regulation of Buoy Type Oxygen Inhalers JJG 913	(0～25)MPa	U=0.17MPa		
		Flow		(1～10)L/min	U_{rel}=1.2%		
82	*Motor Vehicle Engine Speed Measuring Instruments	Rotational Speed	Calibration Specification for Motor Vehicle Engine Speed Measuring Instruments JJF1375	（600～5000）r/min	U_{rel}=0.3%		
		Time		（0～5）s	U=0.08s		
83	*Syringe Pumps and Infusion Pumps	Flow	Calibration Specification for Syringe Pumps and Infusion Pumps JJF 1259	(5～20)mL/h	U_{rel}=2.5%		
				(20～200)mL/h	U_{rel}=1.2%		
				(200～1000)mL/h	U_{rel}=2.5%		
		Pressure		（0～200）kPa	U=2.4 kPa		
84	Positive Control of Drug Container－Closure Integrity Test（CCIT）	Leak Rate	Calibration Specification for Positive Control of Drug Container－Closure Integrity Test（CCIT） SQI/JL-JF-64	(1.4×10^{-5}～1.4×10^{-3})Pa・m^3/s	U_{rel}=6.2%		
85	*Medical Suction Equiment	pressure	Calibration Specification of Medical Suction Equiment JJF 1810	（-0.095～0）MPa	U=0.001MPa		

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86	Vacuum Helium Leaks	leak rate	Calibration Specification for Vacuum Helium Leaks JJF 1833	（1.0×10^{-10}～1.0×10^{-4}）Pa • m^3/s	U_{rel}=12%		
87	Gasoline Vapor Recovery Detectors	Flow-rate	Calibration Specification for Gasoline Vapor Recovery Detectors JJF 1948	（3.3～50）L/min	U_{rel}=0.8%		
		Time		（10～1800）s	U=1s		
		Pressure		(-5～5)kPa	U=3.4Pa		
88	*Electromagnetic Horizontal Vibration Generator for Testing	Frequency	Verification Regulation for Electromagnetic Horizontal Vibration Generator for Testing JJG 1000	（0.1～2000）Hz	U_{rel}=0.012%		
		Acceleration		（0.05～1000）m/s^2	U_{rel}=3%		
		Displacement		（0.1～50）mm	U_{rel}=3%		
89	*Measuring instrumentations for strain gauge transducer	voltage ratio	Calibration specification for measuring instrumentations for strain gauge transducer JJF 1469	（-100～-0.1）mV/V	U_{rel}=0.0056%		
				（0.1～100）mV/V	U_{rel}=0.0056%		
90	*Medical Centrifuges	Speed	Calibration Specification for Medical Centrifuges JJF 2004	（20～30000）r/min	U_{rel}=0.1%		
		Time		（180～3600）s	U_{rel}=0.3%		
		Temperature		（-10～100）℃	U=0.3℃		
		Noise		（40～100）dB	U=3dB		
91	*Interfacial tensiometer	tension	CalibrationSpecificationforInterfaceTensiometer JJF1464	（10～1000）mN/m	U_{rel}=0.2%		
		Length		（0.09～1）mm	U_{rel}=0.01%		
				（1～100）mm	U_{rel}=0.2%		
92	*Spring hammers	Energy	Calibration specification for spring hammers JJF 1475	（0.2～0.5）J	U=0.004J		
				（0.5～1.5）J	U=0.01J		

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				（1.5～2.0）J	U=0.02J		
93	*Open Channel Flowmeter	Flow	The Online Calibration Specification of Open Channel Flowmeter JJF(Zhe)1080	（1～500）m^3/h	U_{rel}=3.2%		
				（500～1000）m^3/h	U_{rel}=3.8%		
94	*Shock measuring instruments	Acceleration	Calibration specification for shock measuring instruments JJF 1943	（100～10000）m/s^2 （0.015～20）ms	U_{rel}=2.5%		
				（10000～100000）m/s^2（0.015～20）ms	U_{rel}=4.2%		
		Pulse		（0.015～240）ms	U_{rel}=0.5%		
95	*Brinell Hardness Testing Machines	Brinell hardness	Standard Test Method for Brinell Hardness of Metallic Materials ANNEXES A1 Verification Of Brinell Hardness Testing Machines ASTM E10	（50～125）HBW	U_{rel}=1.9%		
				（125～225）HBW	U_{rel}=1.1%		
				（225～650）HBW	U_{rel}=1.0%		
		Force		（50～30000）N	U_{rel}=0.3%		
		Length		Indentation Measuring System（0.1～10）mm	U=1.5 μ m		
		Length		Indenter（1～10）mm	U=1.8 μ m		
		Time		（1～60）s	U=0.2s		
96	*Vickers Hardness Testing Machines	Vickers hardness	Standard Test Methods For Vickers Hardness And Knoop Hardness Of Metallic Meterials A1 Verification Of Vickers And Knoop Hardness Testing Machines A3	（175～800）HV0.05	U_{rel}=6.8%		
				0.05HV～0.3HV，（175～240）HV	U_{rel}=6.5%		
				0.05HV～0.3HV，（240～600）HV	U_{rel}=2.5%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
			Standization Of Vickers And Knoop Indenters ASTM E92 A1 A3	0.05HV～0.3HV，（600～800）HV	U_{rel}=2.0%		
				0.5HV～1HV，（175～240）HV	U_{rel}=6.5%		
				0.5HV～1HV，（240～600）HV	U_{rel}=2.0%		
				0.5HV～1HV，（600～800）HV	U_{rel}=1.5%		
				3HV～30HV，（175～240）HV	U_{rel}=2.0%		
				3HV～30HV，（240～600）HV	U_{rel}=1.5%		
				3HV～30HV，（600～800）HV	U_{rel}=1.5%		
		Force		（0.5～980.7）N	U_{rel}=0.3%		
		Length		Indentation Measuring System（0.1～1）mm	U=1.5 μm		
				Geometric Dimentions（0.001～20）mm	U_{rel}=1.3%		
		Time		（1～60）s	U=0.2s		
97	Soap Film Flow meter	Flow	Verification Regulation of Soap Film Flow meter JJG 586	（0.02～9）m^3/h	U_{rel}=0.38%		
				（5～333.33）mL/min	U_{rel}=0.73%		
		Capacity		（10～50）mL	U_{rel}=0.17%		
				（50～200）mL	U_{rel}=0.035%		
				（200～6000）mL	U_{rel}=0.011%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
98	*Filter Integrity Testers	Pressure	Calibration Specification for Filter Integrity Testers JJF 2142	（0～800）kPa	U=0.7kPa		
		Flow		（5～125）mL/min	U_{rel}=1.6%		
99	Reference Leaks	Flow	Calibration Specification for Reference Leaks by Soap Film Flowmeter JJF 1627	5mL/min～10L/min	U_{rel}=2.2%		
100	Capacitance Diaphragm Vacuum Gauges	Vacuum	Calibration Specification for Capacitance Diaphragm Vacuum Gauges JJF 1503	（4×10^{-1}～1×10^{5}）Pa	U_{rel}=1.9%～0.1%		
101	*Pressure Transducer(Static)	Pressure	Verification Regulation of Pressure Transducer(Static) JJG 860	（-100～-5）kPa	U=0.013%FS		
				0 kPa			
				5kPa～250MPa	U=0.013%FS		
102	*Body Scale	Mass	Calibration Specification for Body Scale JJF 2256	(0～600）kg	U=0.8g~0.30kg		
103	*Electromagnetic Flowmeters	Flow	Online Calibration Specification for Electromagnetic Flowmeters JJF 2216	DN50 (4～40)m^3 /h	U_{rel}=1.8%		
				DN65 (12～60)m^3 /h	U_{rel}=1.8%		
				DN80 (20～100)m^3/h	U_{rel}=1.8%		
				DN100 (30～150)m^3/h	U_{rel}=1.8%		
				DN125 (40～200)m^3/h	U_{rel}=1.8%		
				DN150 (60～300)m^3/h	U_{rel}=1.8%		
				DN200 (100～500)m^3/h	U_{rel}=1.7%		
				DN250 (160～800)m^3/h	U_{rel}=1.7%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				DN300 (200～1000)m^3/h	U_{rel}=1.7%		
104	*Deng-scales	Mass	Calibration Specification for Deng-scales JJF2254	（0～500）g	U=（0.03～1.6）g		
三、Acoustics							
1	Sound Level Meters	Sound Pressure Level	V.R.of Sound Level Meters JJG 188	Acoustic Signal: (30dB～114dB),10Hz～200Hz	U=0.5dB		
				Acoustic Signal: (30dB～124dB)，250Hz～1.25kHz	U=0.4dB		
				Acoustic Signal: (30dB～114dB),1.6kHz～10kHz	U=0.6dB		
				Acoustic Signal: (30dB～114dB),12.5kHz～20kHz	U=1.0dB		
				Steady State Electrical Signal:(1dB～140dB)，31.5Hz～8kHz	U=0.4dB		
				Burst Signal:(10～140)dB,(0.25ms～200ms)	U=0.2dB		
		Time-aver Sound Level		Steady State Electrical signal :(10~140)dB，4kHz	U=0.2dB		
				Burst Signal:(10～140)dB,4kHz,(0.25ms～200ms)	U=0.2dB		
		Attenuation Rate		F:(30～50)dB/s,4kHz	U=0.4dB/s		
				S:(3～6)dB/s,4kHz	U=0.2dB/s		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
2	*Anechoic Rooms and Hemi-Anechoic Rooms	Sound Pressure Level	Calibration Specification for Acoustic Performance of Anechoic Rooms and Hemi-anechoic Rooms JJF 1147	Anechoic Rooms: (10～120)dB,20Hz～10kHz	U=0.8dB		
				Anechoic Rooms: (10～120)dB,10kHz～20kHz	U=1.2dB		
				Hemi-anechoic Rooms: (10～120)dB,20Hz～10kHz	U=1.0dB		
				Hemi-anechoic Rooms: (10～120)dB,10kHz～20kHz	U=1.5dB		
3	Sound Calibrator	Sound Pressure Level	V.R.of Sound Calibrator JJG 176	(94～124)dB,31.5Hz～16kHz	U=0.15dB		
		Frequency		31.5Hz～16kHz	U_{rel}=0.2%		
		Total distortion + noise		0.1% ～5.0% ,31.5Hz～16kHz	U=0.1%		
4	*Microphone Preamplifiers	Sound Pressure Level	Calibration specification for Microphone Preamplifiers JJF 1137	Frequency Response :120dB,10Hz～50kHz	U=0.3dB		
				Transmission Loss:120dB,10Hz～50kHz	U=0.1dB		
5	Noise Level Statistical Analyzers	Sound Pressure Level	Verification Regulation of Noise Level Statistical Analyzers JJG 778	Acoustic Signal: (30dB～114dB),10Hz～200Hz	U=0.5dB		
				Acoustic Signal: (30dB～124dB)，250Hz～1.25kHz	U=0.4dB		
				Acoustic Signal: (30dB～114dB),1.6kHz～10kHz	U=0.6dB		

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				Acoustic Signal: (30dB～114dB),12.5kHz～20kHz	U=1.0dB		
				Steady State Electrical Signal:(1dB～140dB)，31.5Hz～8kHz	U=0.2dB		
				Burst Signal:(10～140)dB,4kHz,(0.25ms～200ms)	U=0.2dB		
		Attenuation Rate		F:(30～50)dB/s,4kHz	U=0.4dB/s		
				S:(3～6)dB/s,4kHz	U=0.2dB/s		
		Time-average Sound Level		Repetitive Burst Sound Signal：10～140)dB,(0.25～200)ms	U=0.2dB		
				Steady State Electrical signal:(10～140)dB，4kHz	U=0.2dB		
		Percentile Level		(5～140)dB,4kHz	U=0.3dB		
6	Working Standard Microphone	Sound Pressure Level	Verification regulation of Working Standard Microphones(Electrostatic Actuator Method) JJG 175	124dB，250Hz	U=0.17dB		
				(80～130)dB,20Hz～4kHz	U=0.20dB		
				(80～130)dB,5kHz～8kHz	U=0.30dB		
				(80～130)dB,10kHz～20kHz	U=0.50dB		
				124dB,25kHz～40kHz	U=0.70dB		
7	*Acoustic Performance of	Reverberation Time	Calibration Specification for Acoustic Performance of	1s～20s	U_{rel}=9%		

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	Reverberation Rooms	Sound pressure Level	Reverberation Rooms JJF 1143	(10～130)dB,100Hz～8kHz	U=0.60dB		
8	*Ultrasonic Source for Medical Ultrasonic Diagnostic Equipment	Ultrasonic Power	Verification regulation ofUltrasonic Source for Medical Ultrasonic Diagnostic Equipment JJG 639	(10～100)mW	U_{rel}=11%		
9	*Audio - frequency Signal Generator	Voltage	V.R.of Audio-frequency Signal Generator JJG 607	1mV～10mV（10Hz～20kHz）	U_{rel}=0.3%		
				10mV～100V（10Hz～20kHz）	U_{rel}=1.3%		
		Frequency		10Hz～20kHz	U_{rel}=0.2%		
		Resistance		0.1 Ω ～10k Ω	U_{rel}=0.3%		
		THD		0.01%～0.05%.,(10Hz～20kHz）	U=0.006%		
				0.05%～0.1%,（10Hz～20kHz）	U=0.012%		
				0.1%～0.2%,（10Hz～20kHz）	U=0.024%		
		Attenuation		1dB～10dB，1kHz	U=0.03dB		
				10dB～80dB，1kHz	U=0.06dB		
10	*Audio-frequency power amplifier	Sound pressure level	Calibration specification for audio-frequency power amplifiers JJF 1200	Frequency response：(60～120)dB，(20Hz～20kHz)	U=0.3dB		
				Gain control：(1～100)dB，(20Hz～20kHz)	U=0.1dB		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				Maximum gain：(1～100)dB，(20Hz～20kHz)	U=0.1dB		
				Gain difference：(1～100)dB，(20Hz～20kHz)	U=0.1dB		
11	*Transducers of Ultrasonic Flaw Detector	Pulse duration	Calibration Specification for Transducers of Ultrasonic Flaw Detector JJF 1294	（25～6500）ns	U_{rel}=4.5%		
		Frequency		（0.5～15）MHz	U_{rel}=4%		
		Sound Pressure Level		（1～130）dB	U=0.4dB		
		Index point		（0.5～80）mm	U_{rel}=1.5%		
		Beam angle		35°～85°	U_{rel}=3%		
12	*Multi-channels sound analyzer	Frequency weighting and frequency response	calibration specification for multi-channels sound analyzers JJF 1288	Frequency weighting and frequency response:(1～140）dB，(10Hz～20kHz)	U=0.2dB		
				Level linearity:(1～140)dB，(10Hz～20kHz)	U=0.3dB		
				Burst response:(1～140）dB，(10～500)ms	U=0.2dB		
		Time-average Sound Level		Steady State Electrical signal and Repetitive Burst Sound Signal：(10～140）dB，4kHz，(10～500)ms	U=0.2dB		
		Time-weighting F and S		F:（20～50）dB/s,4kHz	U=0.1dB/s		
				S:(3～6)dB/s，4kHz	U=0.1dB/s		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		Reverberation time		（0.75～22.5）s	U_{rel}=1.2%		
		The frequency of the output signal		(10Hz～20kHz)	U_{rel}=0.2%		
		Amplitude of the output signal		10mV～10V，(10Hz～20kHz)	U_{rel}=0.3%		
		White noise and pink noise output signal frequency band sound level		(20～140)dB，(20Hz～20kHz)	U=1.3dB		
13	*Ultrasonic Phased Array Flaw Detectors	Length	Calibration Specification of Ultrasonic Phased Array Flaw Detectors JJF 1338	（3～55）mm	U_{rel}=2%		
		Angle		2.5°～90.0°	U_{rel}=2%		
14	*Color Doppler Ultrasound Diagnostic Equipments	Velocity	Calibration Specification for Color Doppler Ultrasound Diagnostic Equipments—Blood Flow Measurement JJF 1438	（10～120）cm/s	U_{rel}=2%		
15	*Ultrasonic Flaw Detector	Bandwidth	Verification Regulation of Ultrasonic Flaw Detectors JJG 746	(0.02～30)MHz	U_{rel}=1.5%		
		Attenuator		(0.1～20)dB，(0.02MHz～30MHz)	U=0.2dB		
				(20～50)dB，(0.02MHz～30MHz)	U=0.3dB		
				(50～81)dB，(0.02MHz～30MHz)	U=0.5dB		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		Amplitude Linearity		(0.1～20.0)%，(0.02MHz～30MHz)	U=1.7%		
		Timebase Linearity		(0.1～20.0)%，(0.02MHz～30MHz)	U=1.5%		
16	*Ultrasonic Source for Ultrasonic Doppler Fetal Monitor	Sound Intensity	Verification Regulation of Ultrasonic Source for Ultrasonic Doppler Fetal Monitor JJG 394	(1～100)mW/cm^2	U_{rel}=12%		
		Heart Rate		(50～250)times/min	U=1times/min		
17	*Ultrasonic Source of Ultrasonic Doppler Foetal Meters	Sound Intensity	Verification Regulation of Ultrasonic Source for Ultrasonic Doppler Fetal Meters JJG 893	(1～100)mW/cm^2	U_{rel}=12%		
四、Electromagnetism							
1	*Digital AC Electrical Parameters Meter	AC Votage	C.S. for Digital AC Electrical Parameters Meter JJF 1491	(1～1000)V (45～65)Hz	U_{rel}=0.05%		
		AC Current		(0.2～40)A (45～65)Hz	U_{rel}=0.05%		
		AC Power		(0.2～40000)W (45～65)Hz	U_{rel}=0.05%		
		Frequency		(45～65)Hz	U=0.003Hz		
		Phase（power factor）		0～360°（PF:0～1）	U=0.0010		
2	*Online Testers of Winding Temperature Rise	Resistance	Calibration Specification for Online Testers of Winding Temperature Rise JJF 1540	0.1 Ω ～10k Ω	U_{rel}=0.02%		
3	*DC Digital Voltmeter	DC Voltage	C.S. of Digital multimeter JJF 1587	20mV～200mV	U_{rel}=0.0012%	6.5 bits and above do not carry out field calibration	
				0.2V～2V	U_{rel}=0.0006%		
				2V～20V	U_{rel}=0.0004%		

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				20V～200V	U_{rel}=0.0006%		
				200V～1000V	U_{rel}=0.0007%		
4	*Impluse Votage Testers for Winding Interturn Insulation	Peak Votage	C.S. for Impluse Votage Testers for Winding Interturn Insulation JJF 1691	(100～15000)V	U_{rel}=3%		
		Wave front time		10ns～100ms	U_{rel}=3%		
5	*DC Digital Amperemeter	DC Current	C.S. of Digital multimeter JJF 1587	20μA～200μA	U_{rel}=0.012%	6.5 bits and above do not carry out field calibration	
				0.2mA～2mA	U_{rel}=0.006%		
				2mA～20mA	U_{rel}=0.004%		
				20mA～200mA	U_{rel}=0.006%		
				0.2A～2A	U_{rel}=0.01%		
				2A～10A	U_{rel}=0.05%		
				10A～20A	U_{rel}=0.12%		
6	*Grow-wire Apparatus	Tempreture	C.S. for Grow-wire Apparatus JJF (ZE) 1050	(0～1000) ℃	U=1.0℃		
		Force value		(0.1～5)N	U=0.01N		
		Time		(5～3600)s	U=0.26s		
		length		(0.1～150)mm	U=(0.006～0.03)mm		
7	*DC Digital Ohmmeter	Resistance	C.S. of Digital multimeter JJF 1587	1Ω～10Ω	U_{rel}=0.0024%		
				10Ω～100Ω	U_{rel}=0.0012%		
				0.1kΩ～1kΩ	U_{rel}=0.001%		
				1kΩ～10kΩ	U_{rel}=0.001%		

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				10kΩ～100kΩ	U_{rel}=0.0012%		
				0.1MΩ～1 MΩ	U_{rel}=0.0022%		
				1MΩ～10MΩ	U_{rel}=0.0042%		
				10MΩ～100MΩ	U_{rel}=0.03%		
8	*Reference Ballasts	Impedance	Calibration Specification for Reference Ballasts JJF 1502	1Ω～10kΩ	U_{rel}=0.1%		
		PF		（0～1）	U=0.0012		
9	*AC Digital Voltmeter	AC Votage	C.S. of Digital multimeter JJF 1587	20mV～200mV (40Hz～100kHz)	U_{rel}=0.02%	6.5 bits and above do not carry out field calibration	
				0.2V～2V(40Hz～100kHz)	U_{rel}=0.006%		
				2V～20V(40Hz～100kHz)	U_{rel}=0.006%		
				20V～200V(40Hz～100kHz)	U_{rel}=0.006%		
				200V～1000V(40Hz～30kHz)	U_{rel}=0.01%		
10	*Electrical Fast Transient/Burst Simulators	Voltage	Calibration Specification for Electrical Fast Transient/Burst Simulators JJF 1672	(0.1～4)kV	U_{rel}=3.4%		
		Rise Time		(0.5～20)ns	U_{rel}=4.4%		
		Pulse Duration		(20～1000)ns	U_{rel}=2.6%		
		Repetition Frequency		1kHz～2MHz	U_{rel}=2.6%		
		Pulse Group Duration		0.1μs～300ms	U_{rel}=2.6%		
		Period		(240～360)ms	U_{rel}=2.6%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
11	*AC Digital Amperemeter	AC Current	C.S. of Digital multimeter JJF 1587	10mA～200mA(40Hz～10kHz)	U_{rel}=0.02%	6.5 bits and above do not carry out field calibration	
				0.2A～2A(40Hz～10kHz)	U_{rel}=0.03%		
				2A～10A(40Hz～10kHz)	U_{rel}=0.05%		
				10A～20A(45Hz～5kHz)	U_{rel}=0.2%		
12	Tesla meter	Magnetic field intensity	Calibration Specification of (1mT～2.5T) Magnetometers JJF 1832	（1～2000）mT	U_{rel}=0.08%		
13	*DC low resistance meters	Resistance	Verification Regulation of DC Low Resistance Meters JJG 837	10μΩ～1mΩ	U_{rel}=0.3%		
				1mΩ～10mΩ	U_{rel}=0.06%		
				10mΩ～1MΩ	U_{rel}=0.03%		
				1MΩ～10MΩ	U_{rel}=0.06%		
14	*Proof Tracking Index Tester	AC voltage	Calibration Specification for Proof Tracking Index Tester JJF(ZE) 1087	(10～600)V,(45～65)Hz	U_{rel}=0.28%		
		AC current		(0.1～10)A,(45～65)Hz	U_{rel}=0.3%		
		Force value		(0.1～5)N	U=0.01N		
		Time		(5～3600)s	U=0.26s		
		length		(0.1～150)mm	U=0.0052mm		
		angle		(1～320)°	U=0.2°		
15	*Multifunction Standard Sources	DC Votage	Calibration Specification for Multifunction Standard Sources JJF 1638	10mV～200mV	U_{rel}=0.0015%		
				0.2V～10V	U_{rel}=0.0002%		

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				10V～1000V	U_{rel}=0.0005%		
		DC Current		100 μ A～20 A	U_{rel}=0.003%		
		DC Resistance		1 Ω ～2 Ω	U_{rel}=0.0020%		
				2 Ω～20 Ω	U_{rel}=0.0012%		
				20 Ω～200 Ω	U_{rel}=0.0010%		
				0.2k Ω ～2M Ω	U_{rel}=0.0012%		
				2M Ω ～20M Ω	U_{rel}=0.0030%		
				20M Ω ～100M Ω	U_{rel}=0.008%		
		AC Votage		10mV～20mV(50Hz～50kHz)	U_{rel}=0.035%		
				10mV～20mV(50kHz～100kHz)	U_{rel}=0.098%		
				20mV～0.5V(50Hz～20kHz)	U_{rel}=0.0060%		
				20mV～0.5V(20kHz～100kHz)	U_{rel}=0.020%		
				0.5V～60V(50Hz～1kHz)	U_{rel}=0.0028%		
				0.5V～60V(1kHz～20kHz)	U_{rel}=0.0025%		
				0.5V～60V(20kHz～100kHz)	U_{rel}=0.0090%		
				60V～1000V(50Hz～20kHz)	U_{rel}=0.0035%		

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				60V～1000V(20kHz～100kHz)	U_{rel}=0.0080%		
		AC Current		100μA ～1mA(50Hz～5kHz)	U_{rel}=0.06%		
				1mA～20A(50Hz～10kHz)	U_{rel}=0.0075%		
16	*AC Voltage Source	Frequency	Calibration Specification for Stable Character of AC Voltage Stable Source JJF(military) 85	40Hz～1kHz	U_{rel}=0.05%		
		Distortion		0.01%～30%	U=0.1%		
		Voltage		15V～1000V	U_{rel}=0.1%		
		Current		10mA～30A	U_{rel}=0.1%		
				30A～400A	U_{rel}=0.8%		
		Power		20W～3000W	U_{rel}=0.2%		
				3kW～240kW	U_{rel}=1.5%		
		Efficiency		(0.01%～120%),(20W～3000W)	U_{rel}=0.2%		
				(0.01%～120%),(3kW～240kW)	U_{rel}=1.5%		
		Input Power adjustment rate		(0.01%～100%),(15V～1000V)	U_{rel}=0.1%		
		Load adjustment rate		(0.01%～100%),(15V～1000V)	U_{rel}=0.1%		
		Output Voltage Stability		(0.01%～100%),(15V～1000V)	U_{rel}=0.1%		

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17	*DC Electronic Loads	DC Voltage	Calibration Specification for DC Electronic Loads JJF 1462	0.1V～1000V	U_{rel}=0.01%		
		DC Current		1mA～20A	U_{rel}=0.02%		
				20A～500A	U_{rel}=0.12%		
		DC Resistance		0.1Ω～100kΩ	U_{rel}=0.03%		
		DC Power		1mW～30kW	U_{rel}=0.2%		
18	*Spark tester	Voltage	Verification procedure for test equipment of rubber plastic wire and cable Part10:Spark tester JB/T 4278.10	(1～20)kV(50Hz)	U_{rel}=1.2%		
19	*High Insulation Resistance Meter	Voltage	Calibration Specification for High Insulation Resistance Meters JJF 2225	(10～100)V	U_{rel}=0.04%		
				(100～1000)V	U_{rel}=0.60%		
		Resistance		1MΩ～10MΩ	U_{rel}=0.26%		
				10MΩ～100MΩ	U_{rel}=0.60%		
				100MΩ～1GΩ	U_{rel}=1.2%		
				1GΩ～10GΩ	U_{rel}=2.4%		
				10GΩ～100GΩ	U_{rel}=5.8%		
				1TΩ	U_{rel}=5.9%		
20	*DC Standard Voltage Source (Generator)	DC Voltage	Calibration Specification for Multifunction Standard Sources JJF 1638	10mV～200.0000mV	U=0.0008mV	6.5 bits and above do not carry out	
				200.0000mV～329.9999mV	U=0.0017mV		

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				0.329999V～1.000000V	U=0.000004V	field calibration	
				1.000000V～3.299999V	U=0.000015V		
				3.299999V～20.00000V	U=0.00007V		
				20.00000V～32.99999V	U=0.00020V		
				32.99999V～200.0000V	U=0.0010V		
				200.0000V～329.9999V	U=0.0030V		
				329.9999V～500.000V	U=0.004V		
				500.000V～1000.000V	U=0.006V		
21	*AC Standard Voltage Source (Generator)	AC Voltage	Calibration Specification for Multifunction Standard Sources JJF 1638	20mV～200mV (10Hz～40Hz)	U=0.015%Ux+0.004mV	6.5 bits and above do not carry out field calibration	
				0.2V～2V (10Hz～40Hz)	U=0.013%Ux+0.00002V		
				2V～20V (10Hz～40Hz)	U=0.013%Ux+0.0002V		
				20V～200V (10Hz～40Hz)	U=0.013%Ux+0.002V		
				200V～1000V（10Hz～40Hz）	U=0.013%Ux+0.02V		
				20mV～200mV (40Hz～100Hz)	U=0.012%Ux+0.004mV		
				0.2V～2V (40Hz～100Hz)	U=0.01%Ux+0.00002V		
				2V～20V (40Hz～100Hz)	U=0.01%Ux+ 0.0002V		
				20V～200V (40Hz～100Hz)	U=0.01%Ux+ 0.002V		

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				200V～1000V (40Hz～100Hz)	U=0.01%Ux+ 0.02V		
				20mV～200mV (100Hz～2kHz)	U=0.012%Ux+ 0.002mV		
				0.2V～2V (100Hz～2kHz)	U=0.01%Ux+ 0.00002V		
				2V～20V (100Hz～2kHz)	U=0.01%Ux+ 0.0002V		
				20V～200V (100Hz～2kHz)	U=0.01%Ux+ 0.002V		
				200V～1000V (100Hz～2kHz)	U=0.01%Ux+0.02V		
				20mV～200mV (2kHz～10kHz)	U=0.014%Ux+0.004mV		
				0.2V～2V (2kHz～10kHz)	U=0.01%Ux+ 0.00002V		
				2V～20V (2kHz～10kHz)	U=0.01%Ux+ 0.0002V		
				20V～200V (2kHz～10kHz)	U=0.01%Ux+ 0.002V		
				200V～1000V (2kHz～10kHz)	U=0.01%Ux+ 0.02V		
				20mV～200mV (10kHz～30kHz)	U=0.014%Ux+0.004mV		
				0.2V～2V (10kHz～30kHz)	U=0.01%Ux+ 0.00002V		
				2V～20V (10kHz～30kHz)	U=0.01%Ux+ 0.0002V		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				20V～200V (10kHz～30kHz)	U=0.01%Ux+ 0.002V		
				200V～1000V (10kHz～30kHz)	U=0.01%Ux+ 0.02V		
				20mV～200mV (30kHz～100kHz)	U=0.075%Ux+ 0.02mV		
				0.2V～2V (30kHz～100kHz)	U=0.055%Ux+0.0002V		
				2V～20V (30kHz～100kHz)	U=0.055%Ux+0.002V		
				20V～200V (30kHz～100kHz)	U=0.055%Ux+0.02V		
				200V～1000V (30kHz～100kHz)	U=0.055%Ux+0.2V		
				0.2V～200V (100kHz～300kHz)	U=0.5%Ux		
				0.2V～200V (300kHz～1MHz)	U=2%Ux		
22	*DC Standard Current Source (Generator)	DC Current	Calibration Specification for Multifunction Standard Sources JJF 1638	20 μA～2.00000mA	U=0.00003mA	6.5 bits and above do not carry out field calibration	
				2.00000mA～3.29999mA	U=0.00008mA		
				3.29999mA～20.0000mA	U=0.0003mA		
				20.0000mA～32.9999mA	U=0.0022mA		
				32.9999mA～200.000mA	U=0.009mA		
				200.000mA～329.999mA	U=0.084mA		
				0.329999A～0.99999A	U=0.00009A		

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				0.99999A～1.49999A	U=0.00022A		
				1.49999A～2.00000A	U=0.00043A		
				2.00000A～2.19999A	U=0.00143A		
				2.19999A～7.0000A	U=0.0036A		
				7.0000A～10.9999A	U=0.0053A		
				10.9999A～20.0000A	U=0.0092A		
23	*AC Standard Current Source (Generator)	AC Current	Calibration Specification for Multifunction Standard Sources JJF 1638	100 μA～200 μA (10Hz～2kHz)	U=0.026%Ix+ 0.02 μA	6.5 bits and above do not carry out field calibration	
				0.2mA～2mA (10Hz～2kHz)	U=0.026%Ix+ 0.2 μA		
				2mA～20mA (10Hz～2kHz)	U=0.026%Ix+ 0.002mA		
				20mA～200mA (10Hz～2kHz)	U=0.026%Ix+ 0.02mA		
				0.2A～2A (10Hz～2kHz)	U=0.062%Ix+ 0.0002A		
				2A～20A (10Hz～2kHz)	U=0.082%Ix+ 0.002A		
				100 μA～200 μA (2kHz～10kHz)	U=0.026%Ix+ 0.02 μA		
				0.2mA～2mA (2kHz～10kHz)	U=0.026%Ix+ 0.2 μA		
				2mA～20mA (2kHz～10kHz)	U=0.026%Ix+ 0.002mA		
				20mA～200mA (2kHz～10kHz)	U=0.026%Ix+ 0.02mA		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				0.2A～2A (2kHz～10kHz)	U=0.075%Ix+ 0.0002A		
				2A～20A (2kHz～10kHz)	U=0.3%Ix+0.002A		
				100μA～200μA (10kHz～30kHz)	U=0.062%Ix+0.01μA		
				0.2mA～2mA (10kHz～30kHz)	U=0.062%Ix+0.01μA		
				2mA～20mA (10kHz～30kHz)	U=0.062%Ix+0.01μA		
				20mA～200mA (10kHz～30kHz)	U=0.062%Ix+0.01μA		
24	Electrical Meters for Measuring Alternating-current Electrical Energy	Alternating-current Electrical Energy	Verification Regulation of Electrical Meters for Measuring Alternating-current Electrical Energy JJG 596	3×(57.7～380)V 3×(0.1～100)A (50Hz、60Hz)	U_{rel}=0.14%		
25	Electromechanial Meters for Measuring Alternating-current Electrical Energy	Alternating-current Electrical Energy	Verification Regulation of Electromechanial Meters for Measuring Alternating-current Electrical Energy JJG 307	3×(57.7～380)V 3×(0.1～100)A (50Hz、60Hz)	U_{rel}=0.2%		
26	*Earth Resistance Meters	Resistance	Earth Resistance Meters JJG 366	0.01Ω～11111.110Ω	U_{rel}=0.4%		
27	*Electrical Meters for Measuring Alternating-current Electrical Energy	Alternating-current Electrical Energy	Verification Regulation of Direct Meters at Place Of Installation JJG (HU)49	3×(57.7～380)V 3×(0.1～100)A (50Hz)	U_{rel}=0.14%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
28	*Electromechanial Meters for Measuring Alternating-current Electrical Energy	Alternating-current Electrical Energy	Verification Regulation of Direct Meters at Place Of Installation JJG (HU)49	3×(57.7～380)V 3×(0.1～100)A (50Hz)	U_{rel}=0.21%		
29	*Electronic Insulating Resistance Meters	Voltage	Verification Regulation of Electronic Insulating Resistance Meters JJG 1005	50V～10kV	U_{rel}=0.6%		
		Resistance		100Ω～10MΩ	U_{rel}=0.3%		
				10MΩ～100MΩ	U_{rel}=0.6%		
				100MΩ～1GΩ	U_{rel}=1.2%		
				1000MΩ～10GΩ	U_{rel}=2.4%		
				10GΩ～100GΩ	U_{rel}=6%		
30	*Clamp Ammeters	AC Current	Calibration Specification for Clamp Ammeters JJF 1075	0.1A～100A(45Hz～400Hz)	U_{rel}=0.05%		
				100A～1000A(45Hz～400Hz)	U_{rel}=0.6%		
				1000A～2000A(45Hz～400Hz)	U_{rel}=0.8%		
		DC Current		0.1A～100A	U_{rel}=0.05%		
				100A～1000A	U_{rel}=0.6%		
				1000A～2000A	U_{rel}=0.8%		
31	*Voltage meter	DC Voltage	V.R.of Ammeter, Voltmeter, Power meter and Ohmmeter JJG 124	10mV～1000V	U_{rel}=0.042%		
		AC Voltage		10mV～1000V (45Hz～65Hz)	U_{rel}=0.042%		
32	*Current meter	DC current	V.R.of Ammeter, Voltmeter, Power meter and Ohmmeter	（0.001～30）A	U_{rel}=0.044%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		AC current	JJG 124	（0.001～30）A (45Hz～65Hz)	U_{rel}=0.044%		
33	*Power meter	DC power	V.R.of Ammeter, Voltmeter, Power meter and Ohmmeter JJG 124	(0.3～15000)W	U_{rel}=0.065%		
		AC power		(0.3～15000)W (45Hz～65Hz)	U_{rel}=0.065%		
34	*Leakage current tester	DC Voltage	V.R. of Leakage Current Meter JJG 843	(10～300)V	U_{rel}=0.11%		
		AC Voltage		(10～300)V(45Hz～400Hz)	U_{rel}=0.11%		
		DC Leakage current		10μA～200mA	U_{rel}=0.1%		
		AC Leakage current		10μA～200mA(20Hz～45Hz）	U_{rel}=1.5%		
				10μA～200mA(45Hz～400Hz）	U_{rel}=0.1%		
				20μA～200mA(400Hz～100kHz）	U_{rel}=1.5%		
				20μA～20mA，（100kHz～1MHz）	U_{rel}=1.5%		
		Dc resistance		（100～3000）Ω	U_{rel}=0.1%		
		Ac impedance		100Ω～20kΩ（20Hz～10kHz）	U_{rel}=0.2%		
				100Ω～20kΩ（10kHz～1MHz）	U_{rel}=0.4%		
35	*EARTH CONTINUITY TESTER	Current of Earth Continuity	V.R. of Earth Continuity Meter JJG 984	(1～60)A	U_{rel}=0.12%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		Earth Continuity Resistance		(10～1000)m Ω	U_{rel}=0.24%		
		Time		10s～60min	U_{rel}=1.2%		
36	*Insulation resistance meter	resistance	V.R. of Megohm -meter JJG 622	100Ω～1MΩ	U_{rel}=2.0%		
				（1～100）MΩ	U_{rel}=2.4%		
				（100～1000）MΩ	U_{rel}=3%		
				（1～10）GΩ	U_{rel}=4%		
		DC Voltage		（100～2500）V	U_{rel}=1.2%		
37	*Withstanding Voltage Tester	DC Voltage	V.R.of Withstanding Voltage Testers JJG 795	VDC（0.5～15）kV	U_{rel}=0.34%		
		AC Voltage		VAC（0.5～15）kV（50Hz）	U_{rel}=0.58%		
		DC Current		IDC（0.5～199）mA	U_{rel}=0.58%		
		AC Current		IAC（0.5～199）mA（50Hz）	U_{rel}=1.2%		
		Time		1s～60min	U_{rel}=1.2%		
38	Current Transformer	The Ratio difference of current	V.R.of Current Transformer for measurement JJG 313	2000A/5A, Rated current 5%	U_{rel}=0.052%		
				2000A/5A, Rated current 20%	U_{rel}=0.026%		
				2000A/5A, Rated current 100%,120%	U_{rel}=0.017%		
		the phase difference of current		0～999.9’, Rated current 5%	U=1.9'		
				0～999.9’, Rated current 20%	U=1.0'		

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				0～999.9’ , Rated current 100%,120%	U=0.7'		
39	Voltage Transformer	the Ratio difference of voltage	V.R.of Voltage Transformer for measurement JJG 314	10kV/100V, Rated voltage 20%	U_{rel}=0.033%		
				10kV/100V, Rated voltage 50%	U_{rel}=0.025%		
				10kV/100V, Rated voltage 80%,100%,120%	U_{rel}=0.017%		
		the phase difference of voltage		0～999.9′ , Rated voltage 20%	U=1.4′		
				0～999.9′ , Rated voltage 50%	U=1.0′		
				0～999.9′ , Rated voltage 80%,100%,120%	U=0.7′		
40	*Surface Resistance Tester	Resistance	Calibration specification for surface resistance tester JJF 1285	（0.001～10)M Ω	U_{rel}=0.46%		
				（10～100)M Ω	U_{rel}=0.7%		
				（100～1×10^3)M Ω	U_{rel}=1.2%		
				（1×10^3～1×10^4)M Ω	U_{rel}=2.3%		
				（1×10^4～1×10^5)M Ω	U_{rel}=5.8%		
				1×10^{6}M Ω	U_{rel}=2.3%		
		DC Voltage		(10～100)V	U_{rel}=0.1%		
				250V	U_{rel}=0.12%		
41	D.C. Resistance Box/D.C. Standard Resistors	Resistance	Verification Regulation of D.C.Resistance Box JJG 982,Verification Regulation	0.001 Ω ～2 Ω			
				2 Ω ～20 Ω	U=0.0008%Rx+0.000014 Ω		

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			of D.C.Standard Resistors JJG 166	20 Ω ～200 Ω	U=0.0008%Rx+0.00005 Ω		
				0.2k Ω ～2k Ω	U=0.0008%Rx+0.0000005k Ω		
				2k Ω ～20k Ω	U=0.0008%Rx+0.000005k Ω		
				20k Ω ～200k Ω	U=0.0008%Rx+0.00005k Ω		
				0.2M Ω ～2M Ω	U=0.0008%Rx+0.000001M Ω		
				2M Ω ～20M Ω	U=0.0011%Rx+0.0001M Ω		
				20M Ω ～200M Ω	U=0.004%Rx+0.01M Ω		
				0.2G Ω ～1G Ω	U=0.06%Rx+0.001G Ω		
				1G Ω ～2G Ω	U=1.0%Rx+0.01G Ω		
				2G Ω ～20G Ω	U=3%Rx+0.1G Ω		
				20G Ω ～100G Ω	U=6%Rx+0.1G Ω		
42	D.C.Potentiometers	DC voltage	Verification Regulation of D.C.Potentiometers JJG 123	10mV～13.11110V	U_{rel}=0.007%		
43	D.C.Bridges	resistance	Verification Regulation of D.C.Bridges JJG 125	1m Ω ～100m Ω	U_{rel}=0.59%		
				100m Ω ～1 Ω	U_{rel}=0.15%		
				1 Ω ～10 Ω	U_{rel}=0.059%		
				10 Ω ～100k Ω	U_{rel}=0.0016%		
44	*Magnetic Particle Flaw Detectors	Magnetization Current	C.S. for Magnetic Particle Flaw Detectors JJF 1273	（500～6000）A	U_{rel}=2.8%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
45	High Voltage Electrostratic voltmete	Voltage	V.R.of High Voltage Electro-stratic voltmeter JJG 494	600V～30kV，（DC、45Hz～400Hz)	U_{rel}=0.3%		
46	*Harmonic Analysis System	Voltage Measure	Calibration Specification for Harmonious and Flicker Analysis System JJF 1205	1V～1000V(Fundamental Frequency:45Hz～65Hz)	U_{rel}=0.03%		
				1V～1000V(Fundamental Frequency:45Hz～65Hz)	U_{rel}=0.07%		
		Current Measure		0.001A～20A(Fundamental Frequency:45Hz～65Hz)	U_{rel}=0.05%		
				0.001A～20A(Fundamental Frequency:45Hz～65Hz)	U_{rel}=0.09%		
		Voltage		（0.1～1000）V	U_{rel}=0.1%		
		THD		（0.1～50）%（45Hz～800Hz）	U_{rel}=0.1%		
		peak factor		1.30～1.50	U_{rel}=3.3%		
		peak phase		(80～100)°	U_{rel}=3.0%		
		resistance		(0.1～1) Ω	U_{rel}=0.15%		
		inductance		(0.05～0.5) Ω	U_{rel}=0.2%		
47	*Lightning Surge(Oscilla- tory waves)Test Signal	Voltage	Electromagnetic compatibility -Testing and measurement techniques -	1V～20kV	U_{rel}=3.3%		
		Current		1A～20kA	U_{rel}=3.3%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
	Generator	Time	Surge immunity test (6.2.3 calibration of generator, 6.4 calibration of CDN, A.2.3 calibration of generator, A.4 calibration of CDN) GB/T 17626.5,Electromagnetic compatibility-Testing and measurement techniques- Part 12:Ring wave immunity test GB/T 17626.12	10ns～10ms	U_{rel}=3%		
48	*Human body impedance simulation network	Input impedance	Methods of measurement of touch current and protective conductor current(Appendix K Network Performance and Calibration) GB/T12113	100Ω～20kΩ（10Hz～10kHz）	U_{rel}=0.2%		
				100Ω～20kΩ（10kHz～1MHz）	U_{rel}=0.4%		
		Input-output voltage		1mV～10V（10Hz～100kHz）	U_{rel}=0.2%		
				1mV～10V（100kHz～1MHz）	U_{rel}=1.1%		
49	*Electrical fast transient/burst	Voltage	Electromagnetic compatibility-Testing and measurement techniques-Electrical fast transient/burst immunity test (6.2.3 Calibration of Electrical fast transient/burst generator, 6.3.2 Calibration of CDN, 6.4.2 Calibration of capacitive coupling clamp) GB/T 17626.4	1V～10kV	U_{rel}=4.4%		
		Rise Time		3ns～20ns	U_{rel}=6.2%		
		Time		20ns～1s	U_{rel}=1.4%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
50	Electrostatic discharge simulators	Current	C.S. for Electrostatic Discharge Simulators JJF 1397	1A～60A	U_{rel}=6%		
		Rise Time		0.5ns～1ms	U_{rel}=13%		
		Voltage		1V～30kV	U_{rel}=3.3%		
51	*Standard Capacitor	Capacitance	Verification Regulation of Standard Capacitors JJG 183	10pF～1μF(1kHz)	U_{rel}=0.05%		
52	*Alternating Current Bridge (LCR Tester)	Resistance	V.R. of Alternating Current Bridge JJG 441	1mΩ(1kHz、100kHz)	U_{rel}=12%		
				10mΩ(1kHz、100kHz)	U_{rel}=3.0%		
				100mΩ(1kHz、100kHz)	U_{rel}=0.6%		
				1Ω、10Ω、100Ω、1kΩ、10kΩ、100kΩ (1kHz、100kHz)	U_{rel}=0.12%		
		Capacitance		1pF、10pF、100pF(1kHz)	U_{rel}=0.12%		
		Capacitance		0.001μF、0.01μF、0.1μF、1μF(1kHz)	U_{rel}=0.06%		
		Capacitance		0.1μF～1μF(100Hz)	U_{rel}=0.6%		
				1μF～1mF(100Hz)	U_{rel}=2.3%		
		Inductance		0.0001H 、1H(1kHz)	U_{rel}=0.23%		
		Inductance		0.001H、0.01H、0.1H(1kHz)	U_{rel}=0.12%		
53	*Reference ballast	Impedac	Ballasts for tubular fluorescent lamps-Performace requirements Appendix C Reference	1Ω～10kΩ	U_{rel}=0.1%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		PF	ballast calibration GB/T 14044	0～1	U=0.0012		
54	*Power Frequency magnetic field Generator	Magnetic Field	Electromagnetic compatibility Testing and measurement techniques-Power Frequency magnetic field immunity test(part 6.) GB/T 17626.8	1μT～0.1mT	U_{rel}=4%		
		Current		(1～1000)A (16.7Hz～60Hz)	U_{rel}=1.5%		
		Coil factor		(0.4～3)/m	U_{rel}=4%		
55	*Pulse magnetic field Generator (include Damped oscillatory magnetic field)	Magnetic Field	Electromagnetic compatibility Testing and measurement techniques-Pulse magnetic field immunity test(part 6.) GB/T 17626.9,Electromagnetic compatibility Testing and measurement techniques-Damped oscillatory magnetic field immunity test(part 6.) GB/T 17626.10	1μT～0.1mT	U_{rel}=3.0%		
		Pulse Current		1A～20kA	U_{rel}=3.3%		
		Time		1ns～1s	U_{rel}=3%		
		Current		(1～1000)A	U_{rel}=1.5%		
		Coil factor		(0.4～3)/m	U_{rel}=4%		
56	*Resistance Strain Gauge Indicators	Resistance Strain	Verification Regulation of Resistance Strain Gauge Indicators JJG 623	(1～500) με	U=1 με		
				(500～1000) με	U=2 με		
				(1000～2000) με	U=3 με		
				(2000～100000) με	U_{rel}=0.15%		
57	*DC Stabilized Power Supplies	DC Voltage	Calibration Specification DC Stabilized Power Supplies JJF 1597	（0.01～1000）V	U_{rel}=0.03%		
		DC Current		（0.01～20）A	U_{rel}=0.08%		
				（20～500）A	U_{rel}=0.12%		

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		load effect for DC Voltage power supplies		10mV～10V	U_{rel}=0.01%		
		load effect for DC Current power supplies		10 μ A～10A	U_{rel}=0.08%		
		source voltage effect for DC Voltage power supplies		10mV～10V	U_{rel}=0.01%		
		source voltage effect for DC Current power supplies		10 μ A～10A	U_{rel}=0.08%		
		PARD for DC Voltage power supplies		10mV～50V (20Hz～20MHz)	U_{rel}=0.03%		
		PARD for DC Current power supplies		200 μ A～10A (20Hz～20MHz)	U_{rel}=0.08%		
				（10～50）A (20Hz～20MHz)	U_{rel}=0.12%		
58	*Clamp Earth Resistance Meter	Resistance	V.R.of Clamp Earth Resistance Meters JJG 1054	0.001 Ω ～0.01 Ω	U_{rel}=2%		
				0.01 Ω ～10k Ω	U_{rel}=0.3%		
59	*Process Calibrator	DC Votage(measure)	Calibration Specification for Process Calibrators JJF 1472	10mV～300V	U_{rel}=0.002%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		DC Votage(measure)		100 μ A～100mA	U_{rel}=0.02%		
		AC Votage(measure)		10mV～300V（10Hz～10kHz）	U_{rel}=0.03%		
		AC Votage(measure)		(0.1～200)mA（10Hz～10kHz）	U_{rel}=0.08%		
		Resistance(measure)		10 Ω ～100 k Ω	U_{rel}=0.02%		
		Frequency(measure)		1Hz～500kHz	U_{rel}=0.008%		
		Temperature(thermocouple measure)		(-250～-100)℃	U=0.5℃		
				(-100～120)℃	U=0.2℃		
				(120～1000)℃	U=0.3℃		
				(1000～1700)℃	U=0.6℃		
		Temperature(thermal resistance measure)		(-200～400)℃	U=0.2℃		
				(400～850)℃	U=0.3℃		
		DC Votage(output)		0.1mV～100V	U_{rel}=0.002%		
		DC Current(output)		100 μ A～100mA	U_{rel}=0.008%		
		Resistance(output)		1 Ω ～100 k Ω	U_{rel}=0.008%		

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		Frequency(output)		1Hz～50kHz	U_{rel}=0.008%		
		Temperature(thermocouple output)		(-250～-100)℃	U=0.5℃		
				(-100～120)℃	U=0.2℃		
				(120～1000)℃	U=0.3℃		
				(1000～1800)℃	U=0.6℃		
		Temperature(thermal resistance output)		(-200～400)℃	U=0.1℃		
				(400～800)℃	U=0.2℃		
60	*Standard Inductor	Inductor	Verification Regulation of Standard Inductors JJG 726	100μH、1mH、10mH、100mH、1H（1kHz）	U_{rel}=0.05%		
61	*Dips Generator	Voltage	Calibration Specification for Dips Generator JJF（浙)1061	0.1V～1000V （DC、45Hz～400Hz）	U_{rel}=0.4%		
		Time		0.4ns～200s	U_{rel}=3%		
62	*Power quality test analyzer	Power	Verification code for power quality analyzer DL/T 1028	0.1mW～50kW （DC、40Hz～1kHz）	U_{rel}=0.05%		
				50kW～25MW （DC、40Hz～1kHz）	U_{rel}=0.7%		
		Voltage		0.1V～1000V （DC、40Hz～1kHz）	U_{rel}=0.03%		
		Current		0.1mA～50A （DC、40Hz～1kHz）	U_{rel}=0.03%		
				50A～2500A （DC、40Hz～1kHz）	U_{rel}=0.6%		

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		Frequency		40Hz～1kHz	U_{rel}=0.008%		
		Harmonious voltage content		(2～60 times): (0.01～20)% （DC、45Hz～65Hz）	U=0.03%		
		Harmonious current content		(2～60 times): (0.01～20)% （DC、45Hz～65Hz）	U=0.04%		
		Flicker		0.10～5.00 （DC、45Hz～65Hz）	U_{rel}=2%		
63	*Safety performance comprehensive tester	DC Voltage(Withstanding)	Electronic Insulating Resistance Meters JJG 1005,V.R.of Withstanding Voltage Testers JJG 795,V.R. of Leakage Current Meter JJG 843,V.R. of Earth Continuity Meter JJG 984	（0.5～20）kV	U_{rel}=0.4%		
		AC Voltage(Withstanding)		(0.5～20）kV （50Hz）	U_{rel}=0.6%		
		DC Current（ Withstanding ）		（0.1～199）mA	U_{rel}=0.6%		
		AC Current(Withstanding)		（0.1～199）mA （50Hz）	U_{rel}=1.2%		
		resistance(Insulation)		100Ω～10MΩ	U_{rel}=0.3%		
				（10～100）MΩ	U_{rel}=0.6%		
				（100～1000）MΩ	U_{rel}=1.2%		
				（1～10）GΩ	U_{rel}=2.4%		
				（10～100）GΩ	U_{rel}=6%		
		Voltage (IR)		50V～20kV	U_{rel}=0.6%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		DC Voltage (Leakage)		（10～300）V	U_{rel}=0.6%		
		AC Voltage (Leakage)		（10～300）V（50Hz～400Hz)	U_{rel}=0.6%		
		DC current(Leakage)		（0.1～199）mA	U_{rel}=0.5%		
		AC current(Leakage)		（0.1～199）mA(50Hz～400Hz）	U_{rel}=0.6%		
		Current （ Earth Continuity）		（1～60）A	U_{rel}=0.12%		
		Resistance （Earth Continuity）		(10～1000)m Ω	U_{rel}=0.24%		
		Time		10s～60min	U_{rel}=1.2%		
64	*Digital Multimeter	DC Voltage	C.S. of Digital multimeter JJF 1587	20 μ V～20mV	U_{rel}=0.03%		
				20mV～200mV	U_{rel}=0.003%		
				0.2V～2V	U_{rel}=0.0006%		
				2V～20V	U_{rel}=0.0004%		
				20V～200V	U_{rel}=0.0006%		
				200V～1000V	U_{rel}=0.0007%		
		DC Current		10 μ A～200 μ A	U_{rel}=0.012%		
				0.2mA～2mA	U_{rel}=0.006%		
				2mA～20mA	U_{rel}=0.004%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				20mA～200mA	U_{rel}=0.006%		
				0.2A～2A	U_{rel}=0.01%		
				2A～10A	U_{rel}=0.05%		
				>10A～100A	U_{rel}=0.08%		
		DC Resistance		1 Ω～10 Ω	U_{rel}=0.0024%		
				10 Ω～100 Ω	U_{rel}=0.0012%		
				0.1k Ω～1k Ω	U_{rel}=0.001%		
				1k Ω～10k Ω	U_{rel}=0.001%		
				10k Ω～100k Ω	U_{rel}=0.0012%		
				0.1M Ω～1 M Ω	U_{rel}=0.0022%		
				1M Ω～10M Ω	U_{rel}=0.005%		
				10M Ω～100 M Ω	U_{rel}=0.03%		
		AC Votage		20mV～200mV (40Hz～20kHz)	U_{rel}=0.02%		
				20mV～200mV (20kHz～50kHz)	U_{rel}=0.03%		
				20mV～200mV (50kHz～100kHz)	U_{rel}=0.07%		
				0.2V～200V(40Hz～20kHz)	U_{rel}=0.006%		
				0.2V～200V(20kHz～50kHz)	U_{rel}=0.01%		

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				0.2V～200V(50Hz～100kHz)	U_{rel}=0.02%		
				200V～1000V(40Hz～1kHz)	U_{rel}=0.01%		
				200V～1000V(1kHz～20kHz)	U_{rel}=0.02%		
				200V～1000V(20kHz～30kHz)	U_{rel}=0.1%		
		AC Current		40μA～200mA(40Hz～1kHz)	U_{rel}=0.02%		
				40μA～200mA(1kHz～5kHz)	U_{rel}=0.05%		
				40μA～200mA(5kHz～10kHz)	U_{rel}=0.2%		
				0.2A～2A(40Hz～1kHz)	U_{rel}=0.03%		
				0.2A～2A(1kHz～5kHz)	U_{rel}=0.06%		
				0.2A～2A(5kHz～10kHz)	U_{rel}=0.8%		
				2A～10A(40Hz～1kHz)	U_{rel}=0.05%		
				2A～10A(1kHz～5kHz)	U_{rel}=0.1%		
				2A～10A(5kHz～10kHz)	U_{rel}=0.4%		
				10A～100A(40Hz～1kHz)	U_{rel}=0.1%		
				10A～100A(1kHz～10kHz)	U_{rel}=0.6%		
65	*Industry Frequency Single-	Power Factor	V.R. for Industry Frequency Single-Phase Meter JJG 440	0～1	U=0.002		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
	Phase Meter	Phase		0～360°	U= 0.12°		
66	A.C. Resistance Boxes	resistance	Calibration Specification for A.C. Resistance Boxes JJF 1636	0.01 Ω ～0.1 Ω	U_{rel}=3.5%		
				0.1 Ω ～1 Ω	U_{rel}=0.38%		
				1 Ω～100 Ω	U_{rel}=0.06%		
				100 Ω～100000 Ω	U_{rel}=0.028%		
				100000 Ω ～10000000 Ω	U_{rel}=0.036%		
		time constant		1ns～100 μ s	U_{rel}=0.8%		
		residual resistance		1m Ω ～1 Ω	U_{rel}=0.01%		
		residual inductance		10 μ H～100 μ H	U_{rel}=0.2%		
67	*Durability test equipment for household appliances and lamps	DC Voltage	C.S for Durability test equipment for household appliances and lamps SQI/JL-JF-60	0.1V～1000V	U_{rel}=0.01%		
		AC Voltage		0.1V～1000V(40Hz～1kHz)	U_{rel}=0.02%		
		DC Current		10mA～30A	U_{rel}=0.06%		
				30A～2000A	U_{rel}=2%		
		AC Current		10mA～30A(40Hz～1kHz)	U_{rel}=0.06%		
				30A～2000A(40Hz～1kHz)	U_{rel}=2%		
		impulse voltage		0.1kV～20kV	U_{rel}=3%		
		impulse current		10A～2000A	U_{rel}=2%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		Power		1W～600kW	U_{rel}=0.1%		
		PF		0～1	U=0.002		
		rotate speed		(10～10000)r/min	U_{rel}=0.12%		
		time		1ms～24h	U=0.006s		
		temperature		(0～1000)℃	U=0.3℃		
		force		(0.1～500)N	U_{rel}=0.2%		
		size		(0.1～10000)mm	U=0.03mm		
68	*Energy consumption test equipment for refrigeration and washing appliances	voltage	Calibration Specification for Energy consumption test equipment for refrigeration and washing appliances SQI/JL-JF-61	0.01V～1000V	U_{rel}=0.05%		
		current		0.001A～80A	U_{rel}=0.05%		
		power		0.01W～80kW	U_{rel}=0.05%		
		frequency		40Hz～30kHz	U_{rel}=0.01%		
		PF		0～1	U=0.0006		
		THD		（0.1～20）%（50Hz～800Hz）	U=0.5%		
		electric energy		0.01V～1000V；0.001A～80A	U_{rel}=0.05%		
		PT100		(-189.3442～660.323)℃	U=0.2℃		
		thermocouple		(-189.3442～660.323)℃	U=0.4℃		
		pressure		(-0.1～60)MPa	U=0.2%FS		
		flow		0.001m^3/h～40m^3/h	U_{rel}=0.2%		

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		temperature		(-25～100)℃	U=0.2℃		
		humidity		20%RH～100%RH	U=1%RH		
		wind speed		5m/s～25m/s	U_{rel}=1%		
		time		0.01s～24h	U_{rel}=0.1%		
		metering		1time～10000time	U=1 次		
		rotate speed		(20～33000）r/min	U_{rel}=0.02%		
69	*High-voltage withstand voltage tester	DC voltage	High-voltage withstand voltage tester JJG(军工) 18	(0.5～100)kV	U_{rel}=0.6%		
		AC voltage		(0.5～100)kV(45～400)Hz	U_{rel}=1.2%		
		DC current		(0.01～0.02)mA	U_{rel}=1.2%		
				(0.02～1000)mA	U_{rel}=0.6%		
		AC current		(0.01～0.02)mA(45～400)Hz	U_{rel}=1.2%		
				(0.02～1000)mA(45～400)Hz	U_{rel}=0.6%		
		time		(0.1～3600)s	U_{rel}=1.2%		
70	*Power Frequency A.C. Electrical Quantities Measuring Transducers	AC voltage	V.R.of Power Frequency A.C. Electrical Quantities Measuring Transducers JJG 126	0.1V～1000V(45Hz～65Hz)	U_{rel}=0.03%		
		AC current		0.2A～50A(45Hz～65Hz)	U_{rel}=0.03%		
				50A～2500A(45Hz～65Hz)	U_{rel}=0.6%		

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		AC power		0.1W～50kW(0.1V～1000V, 0.2A～50A, 45Hz～65Hz)	U_{rel}=0.06%		
				5W～2.5MW(0.1V～1000V, 50A～2500A, 45Hz～65Hz)	U_{rel}=0.7%		
		Power Factor		0～1	U=0.001		
71	*Charge & Discharge of Battery Tester	DC Voltage	Calibration Specification for Charge&Discharge of Battery Tester JJF(军工）108	10mV～1000V	U_{rel}=0.01%		
		DC Current		10μA～20A	U_{rel}=0.02%		
				20A～500A	U_{rel}=0.15%		
				500A～2000A	U_{rel}=0.5%		
		Resistance		0.1Ω～100Ω	U_{rel}=0.4%		
				100Ω～1kΩ	U_{rel}=0.04%		
		Power		10mW～200W(1V～10V, 10mA～20A）	U_{rel}=0.04%		
				200W～10kW(1V～1000V, 20A～2000A）	U_{rel}=0.5%		
		Capability		0.1Ah～10Ah	U_{rel}=0.06%		
				10Ah～1kAh	U_{rel}=0.6%		
		Rise time		1μs～10ms	U_{rel}=4%		
		temperature		-20℃～100℃	U=0.2℃		
72	Coil Number Testing Instructing	Coil Number	Calibration Specification for Coil Number Testing	(10～500)Coil Number	U=1Coil Number		

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			Instrument JJF(浙）1065	(1000～2000)Coil Number	U=3Coil Number		
				(3000～5000)Coil Number	U=4Coil Number		
				(6000～7000)Coil Number	U=5Coil Number		
				(7000～8000)Coil Number	U=6Coil Number		
				10000 Coil Number	U=7Coil Number		
73	*AC Charging Spot for Electric Vehicles	Electic energy	V.R.of AC Charging Spot for Electric Vehicles(for Trial Implementation) JJG 1148	3×220V，3×(0.1A～60)A，0.5C～1.0～0.5L	U_{rel}=0.2%		
74	*Off-board Charger for Electric Vehicles	Electic energy	V.R.of Off-board Charger for Electric Vehicles(forTrial Implementation) JJG 1149	150V～1000V, 2.5A～250A	U_{rel}=0.2%		
75	DC shunt	resistance	Verification Regulation ofDC shunts JJG 1069	(0.0001～10) Ω (Testing Current≤5000A)	U_{rel}=0.06%	DC standard source method	
				(0.00001～0.0001) Ω (Testing Current≤5000A)	U_{rel}=0.1%		
				(0.000001～0.00001) Ω (Testing Current≤5000A)	U_{rel}=0.12%		
76	*Damped oscillatory wave generator	short circuit current	Electromagnetic compatibility—Testing and measurement techniques—Damped oscillatory wave immunity test GB/T 17626.18	(1～80)A	U_{rel}=3.5%		
		open circuit voltage		(0.2～4)kV	U_{rel}=3.7%		
		Time		10ns～10s	U_{rel}=3.1%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		Frequency		1Hz～50MHz	U_{rel}=3.1%		
77	*Verification Regulation of Loop Resistance Testers	Resistance	Verification Regulation of Loop Resistance Testers JJG 1052	1μΩ～0.1mΩ	U_{rel}=0.12%		
				0.1mΩ～600mΩ	U_{rel}=0.06%		
		Current		100A～600A	U_{rel}=0.13%		
		Time		10s～3600s	U_{rel}=1.3%		
78	*Verification Regulation of DC Resistance Meters	Resistance	Verification Regulation of DC Resistance Meters JJG1205	0.01mΩ～0.1mΩ	U_{rel}=0.12%		
				0.1mΩ～100kΩ	U_{rel}=0.06%		
		Current		1mA～100A	U_{rel}=0.2%		
79	*Battery Internal Resistance Testers	Resistance	Calibration Specification for Battery Internal Resistance Testers JJF 1620	1mΩ～10mΩ	U_{rel}=0.2%		
				10mΩ～3kΩ	U_{rel}=0.06%		
		Voltage		±(0.1～800)V	U_{rel}=0.003%		
80	*Moment Disconnection Tester	Resistance	Calibration Specification for Moment Disconnection Tester JJF (军工) 198	1Ω～5kΩ	U_{rel}=1.3%		
		DC Voltage		3V～30V	U_{rel}=0.7%		
		DC Electric current		10mA～1A	U_{rel}=0.7%		
		Time		0.01μs～100μs	U_{rel}=0.6%		
81	*Standard AC Power Source	AC Power	Verification Regulation forStandard AC Power Source JJG (军工)6	5W～30kW，(10Hz～10kHz)	U_{rel}=0.06%		
		AC Voltage		10mV～200V，(10Hz～40Hz)	U_{rel}=0.02%		
				10mV～200V，(40Hz～10kHz)	U_{rel}=0.013%		

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				200V～1000V，(10Hz～10kHz)	U_{rel}=0.015%		
		AC current		1mA～100A，(10Hz～40Hz)	U_{rel}=0.02%		
				1mA～100A，(40Hz～10kHz)	U_{rel}=0.015%		
		Phase		(-120～180)°	U=0.02°		
		Frequency		10Hz～10kHz	U_{rel}=0.06%		
82	*Roadvehicles-Electrical Transient Conduction Disturbance Simulators	DC Voltage	Calibration Specification of Road vehicles-Electrical Transient Conduction Disturbance Simulators JJF(电子) 0019	(10～60)V	U_{rel}=0.6%		
		Pulse voltage		P1,P2,P4,P5:(0.1～700)V	U_{rel}=3.2%		
				P3:(0.1～250)V	U_{rel}=4.6%		
		Time		(0.5～20)ns	U_{rel}=4.4%		
				20ns～2s	U_{rel}=3.2%		
83	*Test Devices for Action Characteristics of Low Voltage Circuit Breakers	current	Calibration Specification for Test Devices for Action Characteristics of Low Voltage Circuit Breakers JJF 1799	1A～2kA	U_{rel}=0.14%		
				2kA～10kA	U_{rel}=0.4%		
				10kA～40kA	U_{rel}=3.2%		
				40kA～90kA	U_{rel}=6.2%		
		time		1ms～1s	U_{rel}=2%		
				1s～1h	U_{rel}=0.3%		
84	*Impulse Current Tester	current	Calibration Specification for Impulse Current Tester JJF (浙)1110	1kA～40kA	U_{rel}=3.2%		
				40kA～90kA	U_{rel}=6.2%		

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		time		10ns～100ms	U_{rel}=3.8%		
85	*Cable Testers	AC Voltage	Calibration Specification for Cable Testers JJF 1457	10V～1kV（50Hz、60Hz）	U_{rel}=0.3%		
				1kV～1.5kV(50Hz、60Hz)	U_{rel}=0.7%		
		Distortion		0.1%～20%	U=0.3%		
		AC Current		(0.1～2)mA	U_{rel}=0.4%		
		Voltage(IR)		10V～1kV	U_{rel}=0.2%		
				1kV～1.5kV	U_{rel}=0.6%		
		resistance(Insulation)		10kΩ～10MΩ	U_{rel}=0.5%		
				10MΩ～100MΩ	U_{rel}=0.7%		
				100MΩ～200MΩ	U_{rel}=1.3%		
		Resistance		0.1Ω～1MΩ	U_{rel}=0.4%		
		Capacitance		1pF～1μF	U_{rel}=0.3%		
86	*Surge Simulators	Voltage	Calibration Specification for Surge Simulators JJF 1741	(0.5～4)kV	U_{rel}=3.5%		
		Current		(0.25～2)kA	U_{rel}=4.4%		
		Time		50ns～100s	U_{rel}=3.2%		
87	*Power Frequency Magnetic Field Simulators	Current	Calibration Specification for Power Frequency Magnetic Field Simulators JJF 1737	10mA～1600A(16Hz～60Hz)	U_{rel}=2%		
		Magnetic Field Intensity		(1～1000)A/m (16Hz～50Hz)	U_{rel}=12%		

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				(1～1000)A/m (50Hz～60Hz)	U_{rel}=6%		
88	*Testers for Relaying Protection	DC Voltage	Verification Regulation of Testers for Relaying Protection JJG 1112	10mV～1000V	U_{rel}=0.004%		
		AC Voltage		10mV～1000V(50Hz～20kHz)	U_{rel}=0.010%		
		DC Current		10μA～100A	U_{rel}=0.008%		
		AC Current		100μA～100A(50Hz～5kHz)	U_{rel}=0.016%		
		Harmonic Distortion		(0.1～20)%	U=0.1%		
		Phase		0°～360°	U=0.02°		
		Time		1ms～9999.9s	U_{rel}=0.02%		
		Rate		10Hz～1000Hz	U_{rel}=0.0003%		
89	*AC Electronic Load	Voltage	Calibration Specification for AC Electronic Load JJF(电子)0002	0.1V～750V(40Hz～1000Hz)	U_{rel}=0.03%		
		Current		0.1A～90A(40Hz～1000Hz)	U_{rel}=0.08%		
		Frequency		40Hz～1000Hz	U_{rel}=0.06%		
		Resistance		2.5Ω～1000Ω	U_{rel}=0.2%		
		Power		1W～13kW(40Hz～1000Hz)	U_{rel}=0.2%		
		Power Factor		0.01～1.00	U=0.02		
90	*Magnetic Yoke Detector	Magnetizing Current	Calibration Specification for Magnetic Yoke Detectors JJF1458	(0.1～20)A	U_{rel}=5%		
		Lifting Force		10N～300N	U_{rel}=4%		

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91	*High Current Generator	AC Current	Calibration Specification of High Current Generator JJF(Mechanic) 1037	1A～2kA	U_{rel}=0.15%		
92	Contactless ElectrostaticVoltage Measuring Instruments	ElectrostaticVoltage	Calibration Specification for Contactless Electrostatic Voltage Measuring Instruments JJF 1517	100V～20kV	U_{rel}=0.6%		
93	*Medical Leakage Current Testers	Leakage Current	Verification Regulation of Medical Leakage Current Testers JJG 1188	DC：（0.01～20） mA	U_{rel}=0.2%		
				AC：（0.01～20）mA（50Hz /60Hz）	U_{rel}=0.5%		
		DC resistance		（0.5～2）kΩ	U_{rel}=0.4%		
		Input impedance		（0.5～2）kΩ	U_{rel}=0.5%		
		Transmission Impedance Frequency Response		（-70～0）dB（10Hz～1MHz）	U=0.2dB		
		Voltage		AC：（0.01～600）V（50Hz /60Hz）	U_{rel}=0.5%		
94	*Eddy Current Conductivity Meters	Conductivity	Calibration Specification for Eddy Current Conductivity Meters JJF 1692	0.58 MS/m～58MS/m	U=（0.09～0.32）MS/m		
95	*Surface Probe Type Eddy Current Flaw Detector	Frequency	Calibration Specification of Eddy Current Flaw Detector JJF(JG) 265	10Hz～20MHz	U_{rel}=1.2%		
		Voltage		100mV～10V	U_{rel}=4.6%		
96	AC/DC High Voltage Meters	DC Voltage	Calibration Specification of AC/DC High Voltage Meters JJF(Zhe)1052	1kV～30 kV	U_{rel}=0.14%		
		AC Voltage		1kV～20 kV（50Hz）	U_{rel}=0.1%		
97	*AC/DC High	DC Current	Calibration Specification of	（0.1～2）kA	U_{rel}=0.024%		

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	Current Measuring Instruments	AC Current	AC/DC High Current Measuring Instruments JJF(HuSuZheWan)4007	（0.1～2）kA（Power frequency）	U_{rel}=0.026%		
98	*Power Analyzers	AC Voltage	Calibration Specification for Power Analyzers JJF 2040	10mV～1000V（50Hz～100kHz）	U_{rel}=0.03%		
		AC Current		1mA～100A（50Hz～10kHz）	U_{rel}=0.06%		
		AC Power		1mW～100kW（50Hz～10kHz）	U_{rel}=0.10%		
		Phase		0°～360°	U=0.03°		
		Frequency		10Hz～1MHz	U_{rel}=0.02%		
		DC Voltage		10mV～1000V	U_{rel}=0.03%		
		DC Current		1mA～100A	U_{rel}=0.05%		
		DC Power		1mW～100kW	U_{rel}=0.05%		
五、Radio							
1	*EMI TEST RECEIVER	reference frequency	Calibration Specification for EMI Testing Receivers JJF 1144	10MHz	U_{rel}=6×10^{-10}		
		IF output frequency		0.1MHz～1GHz	U_{rel}=6×10^{-10}		
		1st IF image frequency interference		(0～130)dB(0.1MHz～1GHz)	U=5dB		
		2nd IF image frequency interference		(0～130)dB(0.1MHz～1GHz)	U=5dB		
		IF rejection		(0～130)dB(0.1MHz～1GHz)	U=5dB		

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		bandwidth of 6dB filter		200Hz,9kHz,120kHz,1MHz	U_{rel}=1.5%		
		noise indication		(-40～30)dBμV(0.1MHz～500MHz)	U=3dB		
		attenuator		(0～110)dB(0.1MHz～1GHz)	U=0.5dB		
		level measurement		(30～120)dBμV(0.1MHz～1GHz)	U=0.30dB		
		pulse characteristic		9kHz～30MHz(-10～40)dB	U=0.8dB		
				30MHz～1GHz(-10～40)dB	U=1.0dB		
		input VSWR		1～10(0.1MHz～1GHz)	U_{rel}=7%		
2	*Low-frequency volt-meters	Voltage	C.S. for Low-frequency volt-meters JJF 1925	1mV ～10mV(10Hz～1MHz)	U_{rel}=1.4%		
				10mV ～100V(10Hz～1MHz)	U_{rel}=0.4%		
3	*Oscilloscope voltage probe	Voltage decay ratio	C.S. for Oscilloscope Voltage Probes JJF 1437	1:1～1:10000（1V～30000V）	U_{rel}=0.7%		
		Frequency response		0.1V～50V（50kHz～100MHz）	U=1.0dB		
		Resistance		50Ω ～100MΩ	U_{rel}=0.6%		
		Rise time		1ns～10ms	U_{rel}=10%		
4	*TDMA-GSM Radio Communication	SG frequency	Calibration Specification for TDMA-GSM Radio Communication Testers	10MHz ～2.7GHz	U_{rel}=1.2×10^{-8}		
		SG Level		(-97～13)dBm(10MHz～2.7GHz)	U=0.26dB		

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	Testers		JJF 1131	(-107～-97)dBm(10MHz～2.7GHz)	U=0.38dB		
				(-117～-107)dBm(10MHz～2.7GHz)	U=0.51dB		
				(-120～-117)dBm(10MHz～2.7GHz)	U=0.65dB		
		SG phase (peak)		0.3° ～60°	U=1.7°		
		SG phase (rms)		0.3° ～60°	U=0.5°		
		SG modulate frequency		1Hz～250kHz	U=5Hz		
		SG modulate level		0dB～10dB(1Hz～250kHz)	U=0.2dB		
		Analyzer frequency		10MHz ～2.7GHz	$U_{rel}=1.6\times10^{-8}$		
		Analyzer level		(-20～10)dBm (10MHz～2.7GHz)	U=0.28dB		
				(-70～-20)dBm (10MHz～2.7GHz)	U=0.30dB		
		Analyzer phase (peak)		0.3° ～60°	U=1.7°		
		Analyzer phase (rms		0.3° ～60°	U=0.5°		
		Analyzer modulate frequency		1Hz～250kHz	U=5Hz		

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5	*CDMA Digital Radio Communication Testers	SG frequency	Calibration Specification of CDMA Digital Radio Communication Testers JJF 1177	10MHz ～2.7GHz	U_{rel}=1.2×10^{-8}		
		SG Level		(-97～13)dBm(10MHz～2.7GHz)	U=0.26dB		
				(-107～-97)dBm(10MHz～2.7GHz)	U=0.38dB		
				(-117～-107)dBm(10MHz～2.7GHz)	U=0.51dB		
				(-120～-117)dBm(10MHz～2.7GHz)	U=0.65dB		
		SG wave quality		0.9～1.0	U=0.001		
		SG EVM		1.5%～50%	U=2.0%		
		SG modulate frequency		1Hz～250kHz	U=5Hz		
		SG phase (rms)		0.3° ～60°	U=0.5°		
		Analyzer frequency		10MHz ～2.7GHz	U_{rel}=1.6×10^{-8}		
		Analyzer level		(-20～10)dBm(10MHz～2.7GHz)	U=0.28dB		
				(-70～-20)dBm(10MHz～2.7GHz)	U=0.30dB		
		Analyzer wave quality		0.9～1.0	U=0.001		

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		Analyzer EVM		1.5%～50%	U=2.0%		
		Analyzer phase (rms)		0.3° ～60°	U=0.5°		
		Analyzer modulate frequency		1Hz～250kHz	U=5Hz		
6	*Vector Signal Generator	Frequency	Calibration Specification for Vector Signal Generator JJF 1174	250kHz～20GHz	$U_{rel}=1\times10^{-8}$		
		Output High Level		(-20～30)dBm （10MHz～6GHz）	U=0.4dB		
		Output Low Level		(0～110)dB （2GHz～6GHz）	U=0.3dB		
		GSM/CDMA Modulated Frequency Error		1Hz～250kHz	U=5Hz		
		CDMA EVM		1.5%～50%	U=2.0%		
		CDMA Wave Quality Rho		0.9～1.0	U=0.001		
		GSM/CDMA Phase Error(RMS)		0.3° ～60°	U=0.5°		
7	*WLANTest Set	Frequency	C.S. for WLAN Test Set JJF 1277	10MHz～8GHz	$U_{rel}=1.2\times10^{-8}$		
		Level		(-100～20)dBm (10MHz～3.6GHz)	U=0.28dB		
				(-100～20)dBm (3.6GHz～8GHz)	U=0.31dB		
		Spectral Duration		(-90～0)dBc (10MHz～8GHz)	U=1.2dB		

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		Single-side Phase Noise		(-90～0)dBc (frequency deviation:10Hz～2MHz)	U=3dB		
		EVM		0～8%(BW:5MHz～80MHz)	U=0.4%		
				0～8%(BW:80MHz～160MHz)	U=1.2%		
		Frequency Error		-100kHz～100kHz	U=3.3Hz		
		Level Measure		(-90～10)dBm (200kHz～6GHz)	U=0.57dB		
		EVM Measure		0～8%(BW:5MHz～160MHz)	U=0.7%		
		Frequency Error Measure		-100kHz～100kHz	U=9.2Hz		
8	*Bluetooth Test Set	Frequency	C.S. for Bluetooth Test Set JJF 1278	10MHz～3GHz	U_{rel}=1.2×10^{-8}		
		Level		(-100～20)dBm (10MHz～3GHz)	U=0.28dB		
		Spectral Purity		(-90～0)dBc (10MHz～3GHz)	U=1.2dB		
		Single-side Phase Noise		(-90～0)dBc (frequency deviation:10Hz～2MHz)	U=3dB		
		GFSK Frequency Error		-250kHz～250kHz (10MHz～3GHz)	U_{rel}=1.2%		
		EVM		0.3%～12%	U=1.0%		
		Frequency Error		-100kHz ～100kHz	U=12Hz		
		Level Measure		(-90～10)dBm (200kHz～3GHz)	U=0.56dB		

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		GFSK Frequency Error Measure		-250kHz～250kHz (10MHz～3GHz)	U_{rel}=1.2%		
		EVM Measure		0.3%～12% (10MHz～3GHz)	U=1.2%		
		Frequency Error Measure		-100kHz ～100kHz	U=12Hz		
9	*LTE Radio Communication Testers	Frequency	C.S. for LTE Radio Communication Testers JJF 1443	10MHz～3.8GHz	U_{rel}=1.2×10^{-8}		
		Level		(-100～20)dBm (10MHz～3.6GHz)	U=0.28dB		
				(-100～20)dBm (3.6GHz～3.8GHz)	U=0.31dB		
		Spectral Duration		(-90～0)dBc (10MHz～3.8GHz)	U=1.2dB		
		Single-side Phase Noise		(-90～0)dBc (frequency deviation:10Hz～2MHz)	U=3dB		
		EVM(RMS)		0.3%～17.5%（600MHz～3.8GHz ）	U=0.80%		
		IQ Offset		（-5～-80）dB（600MHz～3.8GHz）	U=1.5dB		
		Frequency Error		(-80～80)kHz（600MHz～3.8GHz ）	U=8.0Hz		
		Level Measure		(-90～10)dBm(600MHz～3.8GHz)	U=0.57dB		
		EVM Measure		0.3%～17.5%（600MHz～3.8GHz ）	U=0.80%		

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		Frequency Error Measure		(-80～80)kHz （600MHz～3.8GHz)	U=8.0Hz		
10	*Coaxial resistive attenuator	Attenuation	V.R. of coaxial resistive attenuator JJG 387	(0～90)dB (9kHz～100kHz)	U=0.04dB		
				(0～10)dB (100kHz～20GHz)	U=0.02dB		
				(10～40)dB (100kHz～20GHz)	U=0.04dB		
				(40～60)dB (100kHz～20GHz)	U=0.05dB		
				(60～70)dB (100kHz～20GHz)	U=0.18dB		
				(70～80)dB (100kHz～20GHz)	U=0.20dB		
				(80～90)dB (100kHz～20GHz)	U=0.28dB		
				(90～100)dB (100kHz～20GHz)	U=0.30dB		
		Standing-wave ratio		(1～2) (9kHz～20GHz)	U_{rel}=1%		
11	*Spectrum analyzer	Frequency	Calibration specification of spectrum analyzer JJF 1396	100kHz～10MHz	$U_{rel}=1\times10^{-6}$		
				10MHz～20GHz	$U_{rel}=2\times10^{-7}$		
		Power level		(0～ -20)dBm(10MHz～6GHz)	U=0.18dB		
				(0～ -20)dBm(6GHz ～12GHz)	U=0.35dB		
				(0～ -20)dBm(12GHz～20GHz)	U=0.5dB		

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		Level		(0～60)dB (250kHz～1GHz)	U=0.25dB		
				(60～100)dB(250kHz～1GHz)	U=0.45dB		
		Frequency Span		10Hz～20GHz	U_{rel}=1.5%		
		Resolution Bandwidth		1Hz～10MHz	U_{rel}=1.5%		
		Noise sideband		100Hz～1MHz	U=3dB		
		Residual FM		0.2Hz～2Hz	U=0.2Hz		
				2Hz～50Hz	U=2Hz		
		Display average noise level		-160dBm～-50dBm（9kHz～20GHz）	U=3dB		
		Harmonic Distortion		-100dBc～0dBc(10MHz～20GHz)	U=3dB		
12	*Network analyzer	Frequency	Calibration specification of vector network analyzer JJF 1495	300 kHz～20GHz	U_{rel}=1×10^{-6}		
		Output Amplitude of signal source		(20 ～ -70) dBm(300 kHz～20GHz)	U=0.18dB		
		Transmission and Reflection		Attenuation:(20 ～ 50) dB(50MHz～18GHz)	U=0.5dB		
				Reflection：（0～1）(50MHz～18GHz)	U=0.06		
				Transmission：（-180°～180°）(50MHz～18GHz)	U=3°		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
13	*Signal Generator	Frequency	Calibration specification for signal generators JJF 1931	0.1MHz～26.5GHz	$U_{rel}=6\times10^{-9}$		
		Power		(0～+20)dBm (0.1MHz～2GHz)	U=0.14dB		
				(0～+20)dBm (2GHz～4.2GHz)	U=0.28dB		
				(0～+20)dBm (4.2GHz～18GHz)	U=0.30dB		
				(0～+20)dBm (18GHz～26.5GHz)	U=0.40dB		
				(-120～0)dBm (0.1MHz～2GHz)	U=0.20dB		
				(-120～0)dBm (2GHz～18GHz)	U=0.34dB		
				(-120～0)dBm (18GHz～26.5GHz)	U=0.43dB		
		AM depth		(5～99)% carrier frequency：0.1MHz～10MHz modulation frequency：400Hz、1kHz	U_{rel}=0.86%		
				(20～99)% carrier frequency：10MHz～3GHz modulation frequency：400Hz、1kHz	U_{rel}=0.58%		

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				(5～20)% carrier frequency：10MHz～3GHz modulation frequency：400Hz、1kHz	U_{rel}=2.9%		
				(20～99)% carrier frequency：3GHz～26.5GHz modulation frequency：400Hz、1kHz	U_{rel}=1.7%		
				(5～20)% carrier frequency：3GHz～26.5GHz modulation frequency：400Hz、1kHz	U_{rel}=5.2%		
		FM deviation		(0.1～400)kHz carrier frequency：0.1MHz～26.5GHz modulation frequency：400Hz、1kHz	U_{rel}=1.2%		
		Harmonic、Non-Harmonic、Inter-Harmonic Distortion		(-90～-20)dBc(0.1MHz～13GHz)	U=1.6dB		
14	*Low Frequency Signal Generator	Frequency	V.R. of Low Frequency Signal Generator JJG 602	1Hz～1MHz	U_{rel}=1×10^{-5}		
		Distortion		(0.001 ～30)%(5Hz ～100kHz)	U=1dB		

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		Voltage		1mV ～10mV(10Hz～100kHz)	U_{rel}=2%		
				10mV～300V(10Hz～100kHz)	U_{rel}=0.16%		
				1mV ～30V(100kHz～1MHz)	U_{rel}=0.9%		
				30V～300V(100kHz～1MHz)	U_{rel}=3%		
		Attenuation		0～100dB(10Hz～1MHz)	U=0.2dB		
15	*Television Video Generator	Luminance Amplitude	C.S. for Television Video Generator JJF 1235	60mV～1V	U_{rel}=0.6%		
		Chrominance Amplitude		60mV～1V	U_{rel}=1.2%		
		Chrominance Phase		(0～360)°	U=0.6°		
		Pulse Width		1ns～30 μ s	U_{rel}=0.4%		
16	*Function generator	Frequency	V.R.of Function Generators JJG840	0.1Hz～240MHz	U_{rel}=1.0×10^{-8}		
		Voltage (amplitude of output waveform)		Peak-Peak value：3mV～30V、 1kHz (50Ω Load measurement)	U_{rel}=0.24%		
				Peak-Peak Value：3mV～30V 、1kHz (Open circuit measurement)	U_{rel}=0.084%		
		DC voltage		(1mV～5V)	U_{rel}=0.1%		
		Voltage (sine wave amplitude		1V (10Hz～100kHz)	U=0.02 dB		
				1V (100kHz～200kHz)	U=0.05dB		

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		flatness)		1V (200kHz～240MHz)	U=0.18dB		
		Distortion		(0.01～30)% (5Hz～20kHz)	U_{rel}=13%		
				(0.01～30)% (20kHz～50kHz)	U_{rel}=26%		
				(0.01～30)% (50kHz～150kHz)	U_{rel}=41%		
		Harmonic distortion		(-90～-20)dBc (150kHz～240MHz)	U=2.1dB		
		Rise time		135ps～100 μ s	U=0.2ns		
		square wave pulse duty cycle		(0.1～99.9)%	U_{rel}=0.7%		
17	*Low Power Mount	VSWR	Verification regulation for lower power mount GJB/J 3598	(1～10) (50MHz～2GHz)	U_{rel}=3.5%		
				(1～10) (2GHz～8GHz)	U_{rel}=5.9%		
				(1～10) (8GHz～18GHz)	U_{rel}=7.2%		
		CAL Factor		(10%～200%) (10MHz～2GHz)	U=2.1%		
				(10%～200%) (2GHz～6GHz)	U=2.4%		
				(10%～200%) (6GHz～12.4GHz)	U=3.1%		
				(10%～200%) (12.4GHz～15GHz)	U=3.4%		
				(10%～200%) (15GHz～18GHz)	U=4.1%		

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18	*FM Stereo Signal Generator	Frequency	XT-24 V.R. of Stereo Signal Generator JJG(DZ)12011	10Hz～100kHz	$U_{rel}=1\times10^{-8}$		
		Stereo Separation		（30～60）dB (50Hz～15kHz)	U_{rel}=0.4%		
		Distortion		(-10～-100)dB(5Hz ～150kHz)	U=1.2dB		
19	*Audio Analyzer	Output Frequency	C.S. for Audio Analyzer JJF 1395	5Hz～150kHz	$U_{rel}=1\times10^{-7}$		
		Output Voltage		10mV～10V (1kHz)	U_{rel}=1.3%		
		Source Distortion		(-10～-90)dB (10Hz～100kHz)	U=0.6dB		
		Voltage Measurement		10mV～100V (1kHz)	U_{rel}=0.66%		
		Distortion Measurement		(10～100)% (10Hz,100Hz,1kHz,10kHz)	U_{rel}=1.3%		
				(3～10)%(10Hz,100Hz,1kHz,10kHz)	U_{rel}=0.88%		
				(1～3)%，（10Hz，100Hz，1kHz，10kHz）	U_{rel}=1.3%		
				(0.3～1)%，（10Hz，100Hz，1kHz，10kHz）	U_{rel}=0.88%		
				(0.10～0.30)%，（10Hz，100Hz，1kHz，10kHz）	U_{rel}=1.4%		
				(0.03～0.10)%，（10Hz，100Hz，1kHz，10kHz）	U_{rel}=1.0%		

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				(0.01～0.03)%，（10Hz，100Hz，1kHz，10kHz）	U_{rel}=1.6%		
				(0.003～0.01)%(10Hz,100Hz,1kHz,10kHz)	U_{rel}=1.3%		
				(10～100)%，（20kHz，100kHz）	U_{rel}=1.6%		
				(3～10)%，（20kHz，100kHz）	U_{rel}=1.3%		
				(1～3)%，（20kHz，100kHz）	U_{rel}=1.6%		
				(0.30～1)%，（20kHz，100kHz)	U_{rel}=1.3%		
				(0.10～0.30)%，（20kHz，100kHz）	U_{rel}=1.6%		
				(0.03～0.10)%，（20kHz，100kHz）	U_{rel}=2.4%		
				(0.01～0.03)%，（20kHz，100kHz)	U_{rel}=3.6%		
				(0.10～100)%，（150kHz，200kHz）	U_{rel}=3.6%		
				(0.03～0.10)%，（150kHz，200kHz）	U_{rel}=5.8%		
				(0.01～0.03)%，（150kHz，200kHz)	U_{rel}=9.3%		
20	*Video Signal measure meter	Luminance Level	C.S.for Television Video Signal Analyzer JJF 1455	140mV ～2V	U_{rel}=0.6%		

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		Chrominance Level		(1～714) mV	U_{rel}=0.6%		
		Phase		Vector phase：(0～360)°	U=0.6°		
		Time		1μs～20μs	U=10ns		
		Distortion		Difference Gain Distortion：(1～30)%	U=0.4%		
				Difference Phase Distortion：(0～30)°	U=0.4°		
21	*Analogue Oscilloscope	Time	V.R. of Analogue Oscilloscope JJG 262	(500ps～55s)/div	U_{rel}=0.3%		
		Rise Time		150ps～50ns	U=25ps		
		Voltage		(1mV ～5V)/div (1kHz)	U_{rel}=0.4%		
		Bandwidth		50kHz～6.0GHz	U_{rel}=5%		
22	Oscilloscope Calibrator	voltage	V.R.of Oscilloscope Calibrators JJG 278	10mV～200V	U_{rel}=0.1%		
		Sine-wave flatness		10mV～1V（50kHz～100kHz）	U_{rel}=1.0%		
				(0～+20)dBm（100kHz～3.2GHz）	U=0.30dB		
		Rise time		300ps～1ns	U_{rel}=4.0%		
		Time		2ns～0.5s	U_{rel}=0.0012%		
23	*Distortion Meter	Distortion	Calibration Specification for Distortion Meters JJF 1852	(10～100)%，（10Hz，100Hz，1kHz，10kHz）	U_{rel}=1.3%		
				(3～10)%，（10Hz，100Hz，1kHz，10kHz）	U_{rel}=0.88%		

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				(1～3)%，（10Hz，100Hz，1kHz，10kHz）	U_{rel}=1.3%		
				(0.3～1)%，（10Hz，100Hz，1kHz，10kHz）	U_{rel}=0.88%		
				(0.10～0.30)%，（10Hz，100Hz，1kHz，10kHz）	U_{rel}=1.4%		
				(0.03～0.10)%，（10Hz，100Hz，1kHz，10kHz）	U_{rel}=1.0%		
				(0.01～0.03)%，（10Hz，100Hz，1kHz，10kHz）	U_{rel}=1.6%		
				(0.003～0.01)%，（10Hz，100Hz，1kHz，10kHz）	U_{rel}=1.3%		
				(10～100)%，（20kHz，100kHz）	U_{rel}=1.6%		
				(3～10)%，（20kHz，100kHz）	U_{rel}=1.3%		
				(1～3)%，（20kHz，100kHz）	U_{rel}=1.6%		
				(0.30～1)%，（20kHz，100kHz）	U_{rel}=1.3%		
				(0.10～0.30)%，（20kHz，100kHz）	U_{rel}=1.6%		
				(0.03～0.10)%，（20kHz，100kHz）	U_{rel}=2.4%		

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				(0.01～0.03)%，（20kHz，100kHz）	U_{rel}=3.6%		
				(10～100)%，（150kHz，200kHz）	U_{rel}=3.6%		
				(3～10)%，（150kHz，200kHz）	U_{rel}=3.5%		
				(1～3)%，（150kHz，200kHz）	U_{rel}=3.6%		
				(0.30～1)%，（150kHz，200kHz）	U_{rel}=3.5%		
				(0.10～0.30)%，（150kHz，200kHz）	U_{rel}=3.6%		
				(0.03～0.10)%，（150kHz，200kHz）	U_{rel}=5.8%		
				(0.01 ～0.03)%，（150kHz，200kHz）	U_{rel}=9.3%		
		Voltage		1mV～300V， (1kHz)	U_{rel}=0.66%		
				1V ，(10Hz～20kHz)	U_{rel}=0.66%		
				1V， (20kHz～200kHz)	U_{rel}=1.4%		
24	Radio-frequency coupling decoupling device	Common Mode Impedance	Electromagnetic compatibility Testing and measurement techniques-Immunity to conducted disturbances,induced by radio-frequency fields (part 6.) GB/T 17626.6	25Ω～300Ω（150kHz～230MHz）	U_{rel}=4%		
		Attenuation(Coupling)		0dB～60dB（150kHz～230MHz）	U=0.5dB		
25	Curve Tracer	Votage(X-axis)	Calibration Specification for Semiconductor Device Curve	(0.1～1000)V	U_{rel}=0.8%		

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		Current(Y-axis)	Tracers JJF 1236	5 μ A～20A	U_{rel}=0.8%		
		Voltage (output)		（0.1～20）V	U_{rel}=0.2%		
		resistance		100 Ω～10M Ω	U_{rel}=0.2%		
26	*Network Cable Analyzers	DC Loop Resistance	Calibration Specification for Network Cable Analyzers JJF 1494	(0～50) Ω	U=0.08 Ω		
		Delay Time		(50～500)ns	U=3.0ns		
		Insertion Loss		(0～40)dB	U=0.16dB		
		Near-end Crosstalk		(20～70)dB	U=0.39dB		
		Equivalent Far-end Crosstalk		(10～60)dB	U=0.46dB		
		Return Loss		(8～26)dB	U=0.06dB		
27	*Digital Oscilloscope	Voltage	Verification regulation for digital oscilloscope GJB 7691	(1mV～10V)/div （1kHz）	U_{rel}=0.4%		
		time		(500ps～55s)/div	U_{rel}=0.3%		
		Time base		(500ps～55s)/div	U_{rel}=2.6×10^{-6}		
		Bandwidth		50kHz ～6.0GHz	U_{rel}=6.0%		
		Rise Time		65ps～0.1ms	U_{rel}=4.0%		
28	Microwave Radiation and Leakage Energy Measuring Instruments	Power density	Microwave Radiation and Leakage Energy Measuring Instruments JJG 776	0.1mW/cm^2～3mW/cm^2 (2.45GHz)	U=1.3dB		

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29	*Artificial Mains Network	Modulus of Impedance	Calibration Specification for Artificial Mains Networks JJF 1705	(0.1～100) Ω，(9kHz～108MHz)	U_{rel}=6%		
		Phase Angle of Impedance		(0.1～360)°，(9kHz～108MHz)	U_{rel}=6%		
		Voltage division factor		(0.01～20)dB，(9kHz～108MHz)	U=0.3dB		
30	*Microwave Power Amplifier	Rated output power	V.R. of RF and Microwave Power Amplifiers JJF 1678	P:(1W～1000W) (9kHz～3GHzHz)	U=0.32dB		
				P:(1W～500W) (3GHz～10GHz)	U=0.41dB		
				P:(1W～150W) (10GHz～18GHz)	U=0.41dB		
		Gain		(0～80)dB (9kHz～240MHz)	U=0.32dB		
				(0～80)dB (240MHz～18GHz)	U=0.41dB		
		Gain flatness		±(0.5～12)dB (240MHz～18GHz)	U=0.32dB		
				±(0.5～12)dB (240MHz～18GHz)	U=0.41dB		
		1dB compression point output power		P:(1W～1000W) (9kHz～3GHz)	U=0.32dB		
				P:(1W～500W) (3GHz～10GHz)	U=0.41dB		
				P:(1W～150W) (10GHz～18GHz)	U=0.41dB		
		Maximum output power		P:(1W～1000W) (9kHz～3GHz)	U=0.32dB		

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				P:(1W～500W) (3GHz～10GHz)	U=0.41dB		
				P:(1W～150W) (10GHz～18GHz)	U=0.41dB		
		Harmonic distortion and clutter suppression		(10～78)dBc (9kHz～26.5GHz)	U=1.6dB		
		VSWR of Input voltage		VSWR:(1.05～3) (30kHz～2GHz)	U_{rel}=3.5%		
				VSWR:(1.05～3) (2GHz～9GHz)	U_{rel}=4.7%		
				VSWR:(1.05～3) (9GHz～18GHz)	U_{rel}=5.9%		
31	*Directional Coupler	Port return loss	Calibration specification for directional coupler and standing wave ratio bridge JJF 1680	(15～60)dB (300kHz～18GHz)	U=0.2dB		
		Insertion Loss		(0.01～3)dB (300kHz～18GHz)	U=0.12dB		
		Coupling Coefficient		(10～40)dB (300kHz～18GHz)	U=0.2dB		
		Directional		(20～50)dB (300kHz～18GHz)	U=0.3dB		
32	RF Communication Test Set	reference frequency	Calibration Specification for RF Communication Test Set JJF 1065	10MHz	$U_{rel}=1\times10^{-9}$		
		input frequency		10kHz～10MHz	$U_{rel}=2\times10^{-6}$		
				10MHz～1000MHz	$U_{rel}=2\times10^{-9}$		
		span		10kHz～1000MHz	U_{rel}=1.5%		

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		RBW		100Hz～1MHz	U_{rel}=1.5%		
		reference level		(-70～+20)dBm	U=0.3dB		
		input level		(0～100)dB	U=0.3dB		
		input frequency response		(-70～20)dBm（100kHz～1000MHz）	U=0.2dB		
		input attenuation		(0～70)dB	U=0.2dB		
		DANL		(-160～-114)dBm	U=3dB		
		residuals		(-160～-90)dBm	U=3dB		
		OBW		(5～200)kHz	U_{rel}=1.5%		
		ACP		(-70～0)dBc	U=3dB		
		output frequency		250kHz～1000MHz	$U_{rel}=6\times10^{-9}$		
		output level		(-137～+19)dBm	U=0.6dB		
		harmonic distortion		(-80～-30)dBc	U=1.6dB		
		non-harmonic distortion		(-90～-60)dBc	U=1.6dB		
		SSB noise		(-140～-70)dBc/Hz(45～900)MHz	U=3dB		
		AM depth		(0.1～99)%(CF：450MHz;fm：1kHz)	U_{rel}=3%		

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		FM deviation		1Hz～400kHz(f: 45MHz，450MHz，900MHz)	U_{rel}=1.2%		
		RF power		1μW～60W(10～900)MHz	U_{rel}=4%		
		AM Measure		(0.1～95)%(carrier frequency：5MHz～1000MHz，modulation frequency：1kHz）	U_{rel}=3%		
		FM Measure		20Hz～75kHz(carrier frequency：5MHz～1000MHz，modulation frequency：1kHz）	U_{rel}=1.2%		
		output voltage		0.1mV～4V(DC～25kHz)	U_{rel}=0.1%		
		Output frequency response		20Hz～25kHz	U=0.01dB		
		output distortion		0.0001%～0.13%	U=1.5dB		
		AF input frequency		20Hz～400kHz	$U_{rel}=1\times10^{-6}$		
		input voltage		20mV～30V(20Hz～25kHz)	U_{rel}=0.05%		
		frequency response		20Hz～25kHz	U=0.02dB		
		bandwidth		20Hz～50kHz	U_{rel}=6%		
		voltage		1mV/div～10V/div	U_{rel}=0.4%		

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		time		10 μ s/div～100ms/div	U_{rel}=0.3%		
33	*Charge Amplifiers	Charge	Verification Regulation of Charge Amplifiers JJG 338	(10～10^5)pC	U_{rel}=0.05%		
		Voltage		10mV～10V，(10Hz～100kHz)	U_{rel}=0.08%		
34	*Dynamical Signal Analyzer	Frequency	Verification Regulation of Dynamical Signal Analyzer JJG 834	0.1Hz～200kHz	U_{rel}=3.4×10^{-5}		
		Voltage		1mV～10V，(10Hz～200kHz)	U_{rel}=0.4%		
35	Absorbing Clamp	Absorption attenuation	Calibration Specification for Absorbing Clamp in the Range of 30MHz to 1.0GHz JJF 1155	(14～22)dB，（30MHz～1GHz）	U=1.8dB		
36	*Antenna feeder tester	Frequency	Calibration specification for antenna feeder tester JJF 1740	2MHz～18GHz	U_{rel}=6×10^{-9}		
		Power		-30dBm～20dBm，(2MHz～18GHz)	U=0.30dB		
		VSWR		1～10，(2MHz～18GHz)	U_{rel}=5.1%		
		Attenuation		0dB～30dB，(2MHz～18GHz)	U=0.20dB		
		Fault location distance		15m，(2MHz～18GHz)	U_{rel}=1.1%		
		RF power		-50dBm～10dBm，(2MHz～18GHz)	U=0.18dB		
37	*Waveform Recorder	DC voltage	Calibration Specification for Waveform Recorders JJF1876	±(10mV～300mV)	U_{rel}=0.4%		
				±(0.3V～3V)	U_{rel}=0.05%		
				±(3V～30V)	U_{rel}=0.01%		
				±(30V～1000V)	U_{rel}=0.06%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		AC voltage		10mV～33mV，(10Hz～10kHz)	U_{rel}=4%		
				33mV～330mV，(10Hz～10kHz)	U_{rel}=0.4%		
				0.33V～3.3V，(10Hz～10kHz)	U_{rel}=0.05%		
				3.3V～33V，(10Hz～10kHz)	U_{rel}=0.02%		
				33V～330V，(10Hz～10kHz)	U_{rel}=0.03%		
				330V～1000V，(10Hz～10kHz)	U_{rel}=0.04%		
		Time base		1 μs/div～10h/div	U_{rel}=3×10^{-7}		
		Frequency Bandwidth		10Hz～2MHz	U_{rel}=1%		
		Resistance		50Ω～1MΩ	U_{rel}=0.01%		
		DC gain		0.5～1.5	U_{rel}=0.4%		
		Record Time		(1～1000)s	U_{rel}=3×10^{-7}		
38	*High Voltage Dielectric Loss Tester	capacitance	V.R.of High Voltage Dielectric Loss Tester JJG 1126	100pF、1000pF、10nF	U_{rel}=0.14%		
				100nF	U_{rel}=0.16%		
				500nF	U_{rel}=0.11%		
		loss factor		0%～0.2%(100pF、1000pF)	U=0.003%		
				0.5%(100pF、1000pF)	U=0.004%		
				1%(100pF、1000pF)	U=0.005%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				2%(100pF、1000pF)	U=0.007%		
				5%(100pF、1000pF)	U=0.013%		
				10%(100pF、1000pF)	U=0.023%		
				0.1%～0.2%(10nF、100nF、500nF)	U=0.004%		
				0.5%(10nF、100nF、500nF)	U=0.006%		
				1%(10nF、100nF、500nF)	U=0.008%		
				2%(10nF、100nF、500nF)	U=0.013%		
				5%(10nF、100nF、500nF)	U=0.028%		
				10%(10nF、100nF、500nF)	U=0.053%		
39	*RF and Microwave Power Meters	Output power of reference source	Calibration Specification for RF and Microwave Power Meters JJF 1885	1mW（50MHz）	U_{rel}=1.0%	5.4.1 Alternating comparison method is NOT suitable for this item	
		Calibration factor		0.5～2 （Frequency range：0.1MHz～2GHz）	U_{rel}=1.4%		
				0.5～2 （Frequency range：2GHz～6GHz）	U_{rel}=1.8%		
				0.5～2 （Frequency range：6GHz～12.4GHz）	U_{rel}=2.0%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				0.5～2 （Frequency range：12.4GHz～15GHz）	U_{rel}=2.4%		
				0.5～2 （Frequency range：15GHz～18GHz）	U_{rel}=2.5%		
		Power Linearity		Power range：-20dBm～10dBm（50MHz or 1GHz）	U=0.04dB		
		VSWR		1～2 （Frequency range：0.1MHz～2GHz）	U_{rel}=3.5%		
				1～2 （Frequency range：2GHz～8GHz）	U_{rel}=5.9%		
				1～2 （Frequency range：8GHz～18GHz）	U_{rel}=7.2%		
40	coupling decoupling device	Attenuation(Coupling)	Road vehicles -- Component test methods for electrical disturbances from narrowband radiated electromagnetic energy -- Part 4: Harness excitation methods (part 9.3.1.2) ISO 11452-4	0dB～60dB（9kHz～400MHz）	U=0.5dB		
41	*Attenuators from radio frequency to microwave frequency	Attenuation	Calibration Specification for Attenuators from Radio Frequency to Microwave Frequency JJF 2092	（0～100）dB，10Hz～18GHz	U=（0.02～0.30）dB		
				（100～120）dB，100kHz～18GHz	U=（0.30～0.39）dB		
		VSWR		1.0～5，9kHz～18GHz	U_{rel}=4%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
42	*Coupling/Decoupling Networks of Conducted Disturbances Induced by Radio-Frequency Fields Testing	Common mode impedance	Calibration Specification for Coupling/Decoupling Networks of Conducted Disturbances Induced by Radio-Frequency Fields Testing JJF 2079	（80～220）Ω，(150kHz～230MHz）	U_{rel}=7.1%		
		Insertion loss		（5～14)dB，（150kHz～230MHz）	U=0.18dB		
		Coupling coefficient		（-4.5～4.5）dB，（150kHz～230MHz）	U=0.30dB		
		Decoupling attenuation		（20～80）dB，（150kHz～230MHz)	U=0.30dB		
六、Time and Frequency							
1	Microwave frequency meter	Frequency	Verification regulations for microwave frequency counters JJG 841	100kHz～20GHz	$U_{rel}=2\times10^{-6}$～5×10^{-11}		
2	Electronic stopwatch	Time interval	Calibration Specification for Stopwatches JJF 2195	(1～3600)s	U=0.01s		
		Day Error		(-9.99～9.99)s	U=0.06s		
3	Mechanical stopwatch	Time interval	Calibration Specification for Stopwatches JJF 2195	(1～1800)s	U=0.1s		
4	*Time relay	Time	Calibration Specification for time relay JJF 1282	Electronic：1ms～599s	$U=4\times10^{-5}R_x+3$ms	Calibration of electronic time relays without time relay tester method	
				Electronic：600s～1h	$U=6\times10^{-5}R_x+0.01$s		
				Electronic：1h～24h	$U=4.2\times10^{-5}R_x+0.1$s		
				Mechanical：1s～10s	U=0.16s		
				Mechanical：10s～599s	U=0.44s		
				Mechanical：600s～1h	U=0.76s		
				Mechanical：1h～24h	U=1.4s		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
5	*Pulse Counters	frequency	Calibration Specification for Pulse Counters JJF 1686	10MHz	$U_{rel}=6.8\times10^{-9}$		
		Pulse Count		0～1000000	U=1		
七、Optic							
1	Illuminance meter	Illuminance	Verification Regulation of Illuminance Meter JJG 245	(4～3000)lx	U_{rel}=1.6%		
		Cosine characteristics (directional response)		(0～10)%	U=1.0%		
2	Ultraviolet Irradiance Meters	Radiosity	Verification Regulation of Ultraviolet Irradiance Meters JJG 879	(55～2000) μ W/cm^2	U_{rel}=16%		
				(2～80)mW/cm^2	U_{rel}=18%		
3	Luminance Meter	Luminance	Verification Regulation of Luminance Meter JJG 211	(0.5～1000)cd/m^2	U_{rel}=3.0%		
		chrominance		x、y：全色域	U(x)=0.0092, U(y)=0.0072		
4	*Standard Light Sources Boxes	Illuminance	Calibration Specification for Standard Light Sources Boxes JJF(FZ) 055	(50～3000)lx	U=47lx		
		Correlated Colour Temperature		(2700～7500)K	$U=1.2\times10^2$K		
5	Lamp of Luminous Intensity	Luminance	Verification Regulation of Luminance Meter JJG 246	(5～150)cd	U_{rel}=3.0%		
				(150～750)cd	U_{rel}=2.6%		
				(750～1500)cd	U_{rel}=2.9%		
6	*Spectral radiation system/Spectrometer	Wavelength	Verification Regulation of Analyzer of Spectrum Radiation JJG（Zhe）85	(200～1500)nm	U=0.45nm		
		Color temperature distribution		(500～9000)K	U=22K		

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		Chromaticity coordinate		Full color gamut	U=0.0025		
7	Lamp for Total Luminious Flux	Total Luminious Flux	Verification Regulation of Standard Incandescent Lamp for Total Luminious Flux JJG 247	10lm～23500lm	U_{rel}=2.2%		
8	*Artificial Accelerated Weathering Apparatus of Xenon Arc Lamp	irradiance	Calibration Specification for Irradiance of Artificial Accelerated Weathering Apparatus of Xenon Arc Lamp JJF 1525	0.1 mW•m^{-2}～1kW•m^{-2}, (300nm～800nm)	U_{rel}=11%	spectroradiometer method	
9	*Abbe Refractometer	index of refraction	Verification Regulation of Abbe Refractometer JJG625	(1.3300～1.8000)nD	U=9.2×10^{-5}nD		
10	*Colorimeters and Color Differentce Meters	Colourimetric	Verification Regulation of Colorimeters and Color Difference Meters JJG595	Y:1.0～100.0			
				x,y:full color gamut	U=0.0053(0/d);U=0.0070(d/0)		
11	*Specular Gloss Meters	Gloss	Verification Regulation of Specular Gloss Meters and Gloss Plates JJG696	（0～120.0）gloss unit	U=1.5GU		
12	*Hazemeter	Haze	Calibration Specification for Hazemeter JJF1303	0.1～30	U=0.31		
		Transmittance		(1～100)%	U=0.8%		
13	*Color Light-box with Standard Light Sources	Luminan ce	Calibration Specification for Color Light-box with Standard Light Sources JJF（Min）1062	(50～30000)cd/m^2	U_{rel}=8%		
		Colour coordinates		Full color gamut	U=0.0035		
14	*solar simulators	spectral match	Calibration Specification for Solar Simulators JJF 1615	(400～1100)nm	U_{rel}=8%		
		irradiance non-uniformity		0.1%～50%	U_{rel}=3%		

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		irradiance instability		0.1%～50%	U_{rel}=2.1%		
15	*Whiteness Meters	Whiteness	Verification Regulation of Whiteness Meters JJG 512	1.0～100.0	(0/d): U_{R457}=1.0,(d/0):U_{R457} =1.0,(45/0):U_{R457}=1.3		
16	*Lasers for Medicine	laser power	Verification Regulation of Lasers for Medicine JJG 581	1mW～130W	U_{rel}=6.0%		
		Laser energy		20mJ～10J	U_{rel}=6.0%		
17	*Reflection Densitometers	Optical density	Calibration Specification for Reflection Densitometers JJF 1492	0.00～1.00	U=0.03		
				1.01～2.00	U=0.04		
18	*Calibration Specification for UV	Peak wavelength	Calibration Specification of UV Analyzer JJF 1936	（250～380）nm	U=0.7nm	Only test reflection	
		UV irradiance		（40～1000）μW/cm^2	U_{rel}=11%		
19	*Standard Integrating Sphere Sources	Spectral Radiance	Calibration Specification for Standard Integrating Sphere Sources JJF 1990	（10^{-4}～10^3）W/（m^2·nm·sr）	U_{rel}=6.0%	use spectral radiance standard lamp and standard whiteboard	
		Radiance		（0.5～5）cd • m^{-2}	U_{rel}=4.0%		
				（5～10000）cd • m^{-2}	U_{rel}=3.0%		
		Colour Temperature		（2000～3000）K	U=25K		
				（3000～6500）K	U=1X10^{2}K		
				（6500～10000）K	U=1.5X10^{2}K		
		Chromaticity Coordinates		Pangamut	U=0.0060		
20	*Clarity Test Equipment	Illumination	Calibration Specification for Clarity Test Equipment JJF 1287	（100～5000）lx	U_{rel}=9%		
		Time		（1～60）s	U=0.2s		
八、Chemistry							

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
1	*Ultraviolet,Visible, Near-Infrared Spectrophotometers	Wavelength	V.R. of Ultraviolet, Visible, Near-Infrared Spectrophotometers JJG 178	Grating-type instrument Band A:（190～340）nm	U=0.4nm		
				Grating-type instrument Band B:（340～900）nm	U=0.4nm		
				Prism-type instrument Band B:（340～900）nm	U=0.8nm		
				Grating-type instrument Band C:（900～2600）nm	U=0.6nm		
		Transmittance		A 段：（0～100）%	U=0.3%		
				B 段：（0～100）%	U=0.3%		
2	*Chlorine Alarm Detectors	Concentration	Calibration Specification for Chlorine Alarm Detectors JJF1433	（0.1～100）μmol/mol	U_{rel}=2.4%		
		time		（1～3600）s	U=2s		
3	*Laboratory pH Meters	pH	Verification Regulation of Laboratory pH Meters JJG119	Electricity pH：（0～14）	U=0.001		
				Instrument pH：（3～10）	U=0.004		
		Voltage		（-1900～1900）mV	U=0.04%FS		
4	*Particulate Analyzer	Particle concentration	Calibration Specification for Particulate Analyzer JJF 1290	（10～10000）particles/mL	U_{rel}=7%		
5	*Electrolytic Conductivity Meters	Electrolytic Conductivity	Verification Regulation of Electrolytic Conductivity Meters JJG376	Electricity:（1～2×10^4）μS/cm	U_{rel}=0.08%		
				Electricity:（5×10^{-2}～1）μS/cm	U_{rel}=0.13%		

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				Instrument:（100 ～1.3 ×10⁴） μS/cm	U_{rel}=0.33%		
6	*Sulfur Dioxide Gas Detectors	Concentration	Verification Regulation of Sulfur Dioxide Gas Detectors JJG551	（1～300） μmol/mol	U_{rel}=2.2%		
		time		（1～3600）s	U=2s		
7	*Gas Chromatograph	Detection limit	V.R.of Gas Chromatograph JJG700	FID:≤5×10⁻¹⁰ g/s	U_{rel}=4%		
				FPD:≤5×10⁻¹⁰g/s (S), , ≤1×10⁻¹⁰g/s (P)	U_{rel}=3%(S), U_{rel}=4%(P)		
				NPD：≤5×10⁻¹²g/s(N) ≤1×10⁻¹¹g/s(P)	U_{rel}=4%		
				ECD：≤5×10⁻¹²g/mL	U_{rel}=4%		
		sensitivity		TCD：≥800mV•mL/mg	U_{rel}=4%		
8	*Dynamic Light Scattering Particle Size Analyzers	Particle size	Verification Regulation of Dynamic Light Scattering Particle Size Analyzers JJG 1104	（0.1～100）nm	U_{rel}=5%		
				（200～300）nm	U_{rel}=4%		
				（400～500）nm	U_{rel}=4%		
				（600～800）nm	U_{rel}=4%		
9	*Liquid Chromatographs	minimum detectable concentration	V.R.of Liquid Chromatographs JJG705	UV-VIS: ≤5×10⁻⁸g/mL	U_{rel}=6%		
				FLD: ≤5×10⁻⁹g/mL	U_{rel}=6%		
				RID: ≤5×10⁻⁶g/mL	U_{rel}=7%		
				ELSD: ≤5×10⁻⁶g/mL	U_{rel}=7%		
		Temperature		（0～100） ℃	U=0.3 ℃		
		Flow rate		（0.1～10） mL/min	U_{rel}=0.3%		

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10	Rotational Viscometers	Dynamic Viscosity	Verification Regulation of Rotational Viscometers JJG 1002	（50～400）mPa•s	U_{rel}=1.2%		
				（400～6000）mPa•s	U_{rel}=1.3%		
				（6000～20000）mPa•s	U_{rel}=1.5%		
				（20000～40000）mPa•s	U_{rel}=1.7%		
				（40000～90000）mPa•s	U_{rel}=1.8%		
				（90000～125000）mPa•s	U_{rel}=1.9%		
11	*Mercury Analyzers	Detecion limit	Verification Regulation of Mercury Analyzers JJG 548	absorption type:≤1.0ng	U=0.2ng		
				fluorescent type:≤0.1ng	U=0.02ng		
12	*Polarimeter	optical activity	Verification Regulation of Polarimeter and Saccharimeter JJG536	-35° ～+35°	U=0.005°		
13	Wood Moisture Content Measuring Meters	Moisture Content	Verification Regulation of Wood Moisture Content Measuring Meters JJG 986	6%～28%	U=0.3%		
14	*Measurement Instruments	Temperature	V. R. of Melting-point Measurement Instruments JJG701	（50～300） ℃ （heating rate: 0.2℃/min）	U=0.16℃		
				Capillary method：（50～300） ℃ （heating rate:1.0℃/min）	U=0.26℃		

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				Hot table method：（50～300）℃（heating rate:1.0℃/min）	U=0.12℃		
15	*Gas Chromatography-Mass Spectrometers	Signal-to-noise ratio	Calibration Specifiction for Gas Chromatography-Mass Spectrometers JJF1164	Ion trap, single quadrupole, triple quadrupole：≥10:1	U_{rel}=6%		
				Time of flight, electrostatic field of orbital hydrazine: ≥50:1	U_{rel}=6%		
16	*Atomic Absorption Spectrophotometers	Detection limit	Verification Regulation for Atomic Absorption Spectrophotometers JJG 694	Cu：（0～5）μg/mL	U=0.005 μg/mL		
				Cd：（0～50）pg	U=0.2pg		
17	*Turbidimeters	turbidity	Verification Regulation of Turbidimeters JJG880	（0.001～400）NTU	U_{rel}=4%		
18	*Air Samplers	flow	Verification Regulation of Air Sampler JJG956	（50～6000）mL/min	U_{rel}=1.2%		
		time		（300～3600）s	U_{rel}=0.01%		
19	*Alarmer Detectors of Combustible Gas	Gas Concentration	Alarmer Detectors of Combustible Gas JJG693	CH_4（0.01～95）%LEL	U_{rel}=2.7%		
				C_3H_8（0.01～95）%LEL	U_{rel}=2.4%		
				i-C_4H_{10}（0.01～95）%LEL	U_{rel}=2.1%		
				H_2（0.01～95）%LEL	U_{rel}=2.7%		
				C_2H_2（0.01～95）%LEL	U_{rel}=2.7%		
20	Airborne Particle Counter	Particle Size	Calibration Specification for Airborne Particle Counter JJF1190	1%～100%	U_{rel}=24%		

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		Concentration		(4500～55000)particles/28.3L	U_{rel}=14%		
		Flow		(0.1～40) L/min	U=1.3%		
		Time		(30～600)s	U=0.3s		
21	*Instrument for KF Coulometry Titration	water content	Verification Regulation of Instrument for KF Coulometry Titration JJG1044	（10～5000） μg	U_{rel}=3.1%		
22	*Inductively coupled plasma-atomic emission spectrometry	Detection limit	Verification Regulation of Emission Spectrometer JJG768	（0～50）mg/L	U=0.00006mg/L(Ba), U=0.00026mg/L(Cr), U=0.00028mg/L(Cu), U=0.00004mg/L(Mn), U=0.00015mg/L(Ni), U=0.00013mg/L(Zn)		
23	*Liquid chromatography-mass spectrometers	Signal-to-noise ratio	Calibration Specification for Liquid Chromatography - Mass Spectrometers JJF1317	16/2000 Single four-stage rod, Ion Trap:≥10:1	U_{rel}=7%		
				Triple quadrupole(ESI-)：≥10:1	U_{rel}=7%		
				Triple quadrupole (ESI+、APCI+)：≥30:1	U_{rel}=7%		
24	*Ion Chromatogragh	Minimum detectable concentration	Verification Regulation of Ion Chromatogragh JJG823	Electrical Conductivity Detector:≤0.02 μg/mL	U_{rel}=4%		
				UV-VIS Detector: ≤0.02 μg/mL	U_{rel}=4%		
				Electrochemical Detector: ≤0.02 μg/mL	U_{rel}=4%		
		Temperature		（0～50） ℃	U=0.3 ℃		

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		Flow rate		（0.1～10） mL/min	U_{rel}=0.3%		
25	*Hand Saccharinmeter	concentration	Verification Regulation of Hand Saccharime(Content-meter) and Hand Refractometer JJG820	（0～65）%	U=0.3%		
		refractivity		1.3000～1.7000	U=0.0004		
26	*Fourier Transform Infrared Spectrometers	wavenumber	Calibration Specification for Fourier Transform Infrared Spectrometers JJF1319	resolution0.01：（4000～400）cm^{-1}	U=0.6cm^{-1}		
				resolution0.5：（4000～400）cm^{-1}	U=0.6cm^{-1}		
				resolution1.0：（4000～400）cm^{-1}	U=0.8cm^{-1}		
				resolution2.0：（4000～400）cm^{-1}	U=1.2cm^{-1}		
27	*Atomic Fluorescence Spectrophotometer	Detection limit	V.R. of Atomic Fluorescence Spectrophotometers JJG 939	As：≤0.4ng	U=0.006ng		
				Sb：≤0.4ng	U=0.004ng		
28	*Automatic Potentiometric Titrators	electric potential	V.R. of Automatic Potentiometric Titrator JJG814	（-1900～1900）mV	U=0.6mV		
		volume		（2～100）mL	U=0.02mL		
		molar concentration		0.1mol/L	U_{rel}=1.2%		
29	*Direct Reading Spectrometer	Detection limit	Verification Regulation of Emission Spectrometer JJG768	C：≤0.02%	U=0.0009%		
				Si：≤0.02%	U=0.0012%		
				Mn：≤0.02%	U=0.0009%		
				Cr：≤0.01%	U=0.0009%		
				Ni：≤0.02%	U=0.0011%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				V：≤0.01%	U=0.0004%		
30	Flow Cups Viscosimeter	Viscosity	Verification Regulation for Flow Cups Viscosimeter JJG 743	（10～600）mm²/s	U_{rel}=1.5%		
31	*ELISA Analytical Instruments	absorbance	Verification Regulation of ELISA Analytical Instruments JJG861	0.2～1.5	U=0.020		
		Wavelength		(400～700)nm	U=0.8nm		
32	*Dust Sampler	flow	Veritification Regulation of Dust Sample JJG520	（0～80）L/min	U=1.3%FS		
		time		（1～1800）s	U=0.1s		
33	*Laboratory Ion Meters	pX	Verification Regulation of Laboratory Ion Meters JJG757	Electricity：0～14	U=0.005		
				Instrument：2～4	U=0.02		
		potential		（-1900～1900）mV	U=0.4mV		
34	*Differential Scanning Calorimeters	Temperature	Veritification Regulation of Differential Scanning Calorimeters JJG 936	（20～50）℃	U=0.23℃		
				（120～180）℃	U=0.29℃		
				（200～260）℃	U=0.13℃		
				（290～350）℃	U=0.47℃		
				（380～450）℃	U=0.61℃		
		Melting heat		（18～25）J/g	U_{rel}=1.4%		
				（26～33）J/g	U_{rel}=1.2%		
				（55～65）J/g	U_{rel}=0.6%		
				（75～85）J/g	U_{rel}=0.8%		

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				（100～115）J/g	U_{rel}=1.3%		
35	*Inductively coupled plasma massspectrometry	Detection limit	Veritification Regulationof Inductively coupled plasma massspectrometry JJF1159	Be（0～10） μg/mL	U=0.48ng/L		
				In（0～10） μg/mL	U=0.08ng/L		
				Bi（0～10）μg/mL	U=0.06ng/L		
36	*Analyser of Oxygen-Nitrogen-Hydrogen	content	Veritification Regulation of Elemental Analyser JJF1321	O:（0.0005～0.02）%	U_{rel}=7.9%		
				N:（0.001～0.01）%	U_{rel}=8.3%		
				H:（1.0～9.0）×10^{-6}	U_{rel}=12 %		
37	Dissolved Oxygen Meter	The Concentration of Dissolved Oxygen	Verification Regulation of Dissolved Oxygen Meter JJG291	（5～16）mg/L	U=0.17mg/L		
		temperature		（0～50）℃	U=0.16℃		
38	*Sulfur Hydrogen Gas Detectors	Concentration	Verification Regulation 0f Sulfur Hydrogen Gas Detectors JJG695	（0.1～100） μmol/mol	U_{rel}=3.5%		
39	Pyknometer	Volume	Paints and varnishes-Determination of density-Pyknometer method (appendix A: calibration for pyknometer GB/T 6750	（0～100）mL	U=0.12mL		
40	*Flue Gas Analyzers	Concentration	Verification Regulation 0f Flue Gas Analyzers JJG968	SO_2:（0.1～300） μmol/mol	U_{rel}=2.1%		
		Concentration		NO:（0.1～300） μmol/mol	U_{rel}=1.8%		
		Concentration		CO：（0.1～1000） μmol/mol	U_{rel}=1.6%		

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		Concentration		O_2：（0.1～25）%	U_{rel}=1.9%		
		Concentration		NO_2：（0.1～100）μmol/mol	U_{rel}=2%		
41	*Carbon Monoxide Detectors	Gas Concentration	Verification Regulation 0f Carbon Monoxide Detectors JJG915	（0.1～1000）μmol/mol	U_{rel}=1.9%		
42	*Elemental Analyser	content	Veritification Regulation of Elemental Analyser JJF1321	N:（0.1～46.6）%	U_{rel}=2.4%;	N Analyser,CHN Analyser,H Analyser	
		content		C:（40～85）%	U_{rel}=2.4%		
				N:（0.8～8.1）%	U_{rel}=6.2%		
				H:（2～5）%	U_{rel}=3.1 %		
43	*Ammonia Gas Detectors	Concentration	Verification Regulation of Ammonia Gas Detectors JJG1105	（1～300）μmol/mol	U_{rel}=3.1%		
		Time		（1～3600）s	U=3s		
44	*Electrochemical Oxygen Meter	Concentration	Verification Regulation of Electrochemical Oxygen Meter JJG365	（25～100）%	U_{rel}=3.1%		
		Concentration		（0.1～25）%	U_{rel}=3.3%		
		Time		（1～3600）s	U=2s		
45	*Carbon Monoxide and Carbon Dioxide Infrared Gas Analyzer	Concentration	Verification Regulation of Carbon Monoxide and Carbon Dioxide Infrared Gas Analyzer JJG 635	CO:（1～1000）μmol/mol	U_{rel}=1.7%		
		Concentration		CO_2：（0.1～100）%	U_{rel}=2.6%		
		Time		（1～3600）s	U=2s		
46	Samplers for Stack Dust	flow rate	Verification Regulation 0f Samplers for Stack Dust JJG680	（6～100）L/min	U_{rel}=1.4%		
		temperature		Flowmeter Temperature：（10～35）℃	U=0.2℃		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		temperature		Flue Gas Temperature：（10～300）℃	U=0.3℃		
		pressure		Dynamic Pressure:（0.1～1）kPa	U=1.2Pa		
				Dynamic Pressure:（1～2.5）kPa	U=12Pa		
				Flow meter pressure, static pressure:（-100～100）kPa	U=0.06kPa		
		time		（1～3600）s	U=0.3s		
47	*Total Suspended Particulates	Flow Rate	Verification Regulation 0f Total Suspended Particulates JJG943	（80～150）L/min	U_{rel}=1.2%		
		Flow Rate		（150～1200）L/min	U_{rel}=1.3%		
		Pressure		（87～105）kPa	U=2.5hPa		
		Temperature		（0～50）℃	U=0.2℃		
		Time		（1～3600）s	U=0.3s		
48	*Laser particle size analyzer	particle size	Calibration Specifition for Laser Particle Size JJF1211	（1～5） μm	U_{rel}=8%		
				（5～20） μm	U_{rel}=5%		
				（20～120） μm	U_{rel}=3%		
				50.1 μm（玻璃微珠）	U_{rel}=6%		
49	*Carbon-Sulfur Analyzers	content	Verification Regulation of Carbon-Sulfur Analyzers JJG 395	C:（0.005～0.01）%	U_{rel}=5.3%	Infrared carbon-sulfur analyzer,Automatic high speed	
				C:（0.01～0.1）%	U_{rel}=3.6%		
				C:（0.1～1）%	U_{rel}=1.1%		

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				C:（1～4）%	U_{rel}=0.9%	carbon-sulfur analyzer	
				S:（0.003～0.01）%	U_{rel}=6.0%		
				S:（0.01～0.1）%	U_{rel}=4.7%		
				S:（0.1～0.2）%	U_{rel}=3.7%		
		content		C:（0.030～0.1）%	U_{rel}=5.0%		
				C:（0.1～0.5）%	U_{rel}=2.7%		
				C:（0.5～1）%	U_{rel}=2.7%		
				C:（1～4）%	U_{rel}=1.6%		
				S:（0.003～0.01）%	U_{rel}=6.7%		
				S:（0.01～0.05）%	U_{rel}=5.5%		
				S:（0.05～0.1）%	U_{rel}=4.2%		
				S:（0.1～0.2）%	U_{rel}=4.0%		
50	*Flash Point Tester	Flash point	Calibration Specification for Open/Closed Cup Flash Point Testers JJF 1384	Closed cupflash point:（70～110）℃	U=5.4℃		
				Closed cupflash point:（110～170）℃	U=7.7℃		
				Open cupflash point:（110~250）℃	U=8.3℃		
51	*Osmometers	molar concentration	Verification Regulation of Osmometers JJG1089	（90～400）mOsmol/kg	U=2.4mOsmol/kg		
				（400～710）mOsmol/kg	U_{rel}=0.7%		
52	*Thermogravimetric Analyzers	Curie temperature	Verification Regulation for Thermogravimetric Analyzers	（250～500）℃	U=1.3℃		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
			JJG 1135	（50～250）℃	U=1.1℃		
				（500～800）℃	U=2.0℃		
		Melting point		（50～200）℃	U=0.6℃		
				（200～300）℃	U=0.5℃		
				（300～400）℃	U=0.7℃		
				（400～500）℃	U=0.8℃		
		mass		（1～50）mg	U=0.020mg		
53	*Analyzers for oil content in water	Concentration	Analyzers for Oil Content in water JJG 950	（0.1～10）mg/L	U=0.17mg/L		
				（10～1000）mg/L	U_{rel}=3.1%		
54	*On-line pH Meters	pH	Calibration Specification for On-line pH Meters JJF1547	Electricity pH:(0～14)	U=0.01		
				Instrument pH:(3～10)	U=0.03		
		Voltage		（-1900～1900）mV	U=0.04%FS		
55	*Karl Fischer Volumetric Titrators for Water Content	Water Content	Karl Fischer Volumetric Titrators for Water Content JJG1154	（0.01～1）%	U_{rel}=7.6%		
56	*Residual Chlorine Meters	Concentration	Calibration Specification for Residual Chlorine Meters JJF 1609	Total residual chlorine （0.1～500）mg/L	U_{rel}=3.2%		
		Concentration		Free residual chlorine: （0.1～50）mg/L	U_{rel}=3.3 %		
57	*Polymerase Chain Reaction Analyzers	Particle concentration	Calibration Specification for Polymerase Chain Reaction Analyzers JJF 1527	（10～100）℃	U=0.2℃		
		Concentration		（0.1～10^8）copies/μL	U_{rel}=8.0%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
58	*Fluorescence spectrophotometer	Detection limit	Verification Regulation of Fluorescence spectrophotometer JJG 537	A Type：≤5×10^{-10}g/mL	U=5.2×10^{-12}g/mL		
				BType：≤1×10^{-8}g/mL	U=6.0×10^{-10}g/mL		
		Wavelength		（200～700）nm	U=0.4nm		
59	*Chemical OxygenDemand（COD）Meters	Temperature	Chemical OxygenDemand（COD） Meters JJG 975	（100～200）℃	U=0.6℃		
		time		（1～3600）s	U=0.5s		
		concentration（Type A)		（0.1～50）mg/L	U_{rel}=2.6%		
				（50～300）mg/L	U_{rel}=2.0%		
				（300～1000）mg/L	U_{rel}=1.8%		
		concentration（Type B)		（0.1～100）mg/L	U=2.6%		
60	*Class II Biosafety Cabinets	Wind speed	Calibration specification for Class II Biosafety Cabinets JJF 1815	（0.2～1.5）m/s	U=0.04m/s		
		Nosie		（40～100）dB	U=3dB		
		illumination		（50～200）lx	U_{rel}=14%		
				(200～2000)lx	U_{rel}=12%		
		cleanliness		（0.3～5）μm	U_{rel}=29%		
		Leakage rate		（0.0001～1）%	U_{rel}=30%		
61	*Volatile Organic Compounds Photo Ionization Detectors	Concentration	Calibration Specification for Volatile Organic Compounds Photo Ionization Detectors JJF 1172	（0.1～2000）μmol/mol	U_{rel}=3.1%		

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62	*Total organic carbon analyzer	Concentration of Inorganic carbon	Verification Regulation of Total Organic Carbon Analyzer JJG 821	（0.01～1000）mg/L	U_{rel}=1.6%		
		Concentration of Organic carbon		（0.01～1000）mg/L	U_{rel}=U_{rel}=1.8%		
63	*Time-of-Flight Mass Spectrometers	mass-to-charge ratio	Calibration Specification for Time-of-Flight Mass Spectrometers JJF 1528	ESI-TOF-MS：（172～4070）u	U_{rel}=3×10^{-5}		
				MALDI-TOF-MS：（1000～67000）u	U_{rel}=8×10^{-3}		
		Signal to noise ratio		ESI-TOF-MS：1～10^6	U_{rel}=15%		
				MALDI-TOF-MS：1～10^6	U_{rel}=18%		
64	*On-line Conductivity Meters	Conductivity	Calibration Specification for Oniline Conductivity Meters JJF(Xin) 19	Electricity:（1～2×10^4）μS/cm	U=0.24%FS		
		Conductivity		Instrument:（0.9 ～1.3×10^4）μS/cm	U=0.8%FS		
		Temperature		（0～50）℃	U=0.3℃		
65	*On-line Automatic Determinators of Chemical Oxygen Demand(COD)	concentration	Verification Regulation of On-line Automatic Determinators of Chemical Oxygen Demand(COD) JJG 1012	（16～1000）mg/L	U_{rel}=4%		
66	*Micro-spectrophotometers	concentration	Calibration Specification for Micro-spectrophotometers JJF 1836	（10～2000）ng/μL	U_{rel}=10%		
67	*Alarmer Detector of Sulfur Hexafluoride	concentration	Calibration Specification for the Alarmer Detector of Sulfur Hexafluoride JJF 1263	（0.1～1000）μmol/mol	U_{rel}=2.4%		

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		time		5s～3600s	U=1s		
68	*Bacterial Endotoxin Analyzers	temperature	Calibration Specification for acterial Endotoxin Analyzers JJF1529	（20.0～50.0）℃	U=0.2℃		
69	*Colony Counters	Bacterial Colony	Calibration Specification for Colony Counters JJF 1751	（20～300）CFU	U_{rel}=3%		
70	*Blood Cell Analyzers	concentration	Verification Regulation of Blood Cell Analyzers JJG 714	WBC：（2×10^{8}～2.5×10^{10}）个/L	U_{rel}=4%		
				RBC：（1×10^{11}～6×10^{13}）个/L	U_{rel}=3%		
				HGB：（20～300）g/L	U_{rel}=3%		
				PLT：（5×10^{9}～5×10^{12}）个/L	U_{rel}=8%		
71	*Hydrogen Chloride Gas Detectors and Alarms	Concentration	Calibration Specification for Hydrogen Chloride Gas Detectors and Alarms JJF 1888	（0.1～100） μmol/mol	U_{rel}=3.0%		
		Time		（1～3600）s	U=1s		
72	*(Automatic) Nucleic acid extractors	Temperature	Calibration Specification for (Automatic) Nucleic Acid Extractors JJF 1874	（20～100）℃	U=1.5℃		
		Vibration frequency		（0.5～100）Hz	U=0.6Hz		
		Volume		（50～200） μL	U=1.3 μL		
		Recovery rate		（10～100）%	U=2.4%		
73	Flue Gas Samplers	flow rate	Verification Regulation of Flue Gas Samplers JJG 1169	（50～2000）mL/min	U_{rel}=1.2%		
		time		（10～3600）s	U=0.3 s		
		temperature		（0～50） ℃	U=0.2 ℃		

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		pressure		（-40～40）kPa	U=0.06 kPa		
		atmospheric pressure		（80～106）kPa	U=0.16 kPa		
74	*Plate Electrophoresis Apparatus	Voltage	Calibration Specification for Plate Electrophoresis Apparatus JJF 1654	（0.2～20）V	U=0.3 V		
				（20～1000）V	U=0.4 V		
		Electricity		（2～20）mA	U=0.3 mA		
				20mA～2A	U=0.6 mA		
				（2～10）A	U=0.7mA		
75	*Elemental Analyzers of C、H、N、S	Content	Calibration Specification foe Elemental Analyzers JJF 1321	C：（0.1～42） %	U_{rel}=4%		
				H：（0.1～5） %	U_{rel}=1.5%		
				N：（0.1～9） %	U_{rel}=3%		
				S：（0.1～19）%	U_{rel}=4%		
76	*Ultraviolet Fluorescence Sulfur Analyzers	Indication error	Calibration Specification for Ultraviolet Fluorescence Sulfur Analyzers JJF 1685	（0～10.0）mg/L	U=0.2mg/L		
				（10.0～100）mg/L	U_{rel}=4%		
				（100～200）mg/L	U_{rel}=3%		
77	*Flame Photometer	Detection limit	Verification Regulation of Flame Photometer JJG 630	K：≤0.004mmol/L	U=0.0005mmol/L		
				Na：≤0.008mmol/L	U=0.0023mmol/L		
78	*Ammonia-Nitrogen Automatic Analyzers	Concentration	Verification Regulation of Ammonia-Nitrogen Automatic Analyzers JJG 631	（0～2）mg/L	U=0.05 mg/L		
				（2～100）mg/L	U_{rel}=2.8 %		

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79	*Energy Dispersive X-ray Fluorescence Spectrometers	Concentration	Calibration Specification for Energy Dispersive X-ray Fluorescence Spectrometers JJF 2024	polymer:（5～1200）mg/kg	U_{rel}=6%		
		Concentration		metal：（0.001～100）%	U_{rel}=5%		
		Detection Limit		polymer：≤50mg/kg	U_{rel}=20%		
		Detection Limit		metal：≤100mg/kg	U_{rel}=25 %		
80	*Automatic Amino Acid Analyzer	Limit of detection	Verfication Regulaotion of Automatic Amino Acid Analyzer JJG 1064	≤1nmol	U_{rel}=12%		
		Pumping flow		（0.1～10）mL/min	U_{rel}=0.4%		
81	*Adenosine Triphosphate(ATP) Fluorescence Detectors	Amount of substance	Calibration Specification for Adenosine Triphosphate(ATP) Fluorescence Detectors JJF 1828	（1×10^{-10}～1×10^{-18}）mol	U_{rel}=9%	Only the ATP method	
82	*Alarmer detectors of Benzene	Concentration	Calibration Specification for Alarmer Detectors of Benzene JJF 1674	（0.1～10） μmol/mol	U=0.28 μmol/mol		
				（10～100） μmol/mol	U_{rel}=3.2%		
		Time		（1～3600）s	U=1s		
83	*Water Quality On-line Analyzers of Total Phosphorus and Total Nitrogen	Concentration	Verification regulation of Water Quality On-line Analyzers of Total Phosphorus and Total Nitrogen JJG 1094	Total P：（0～0.5）mg/L	U=0.01mg/L		
				Total P：（0.5～500）mg/L	U_{rel}=1.9 %		
				Total N：（0～2）mg/L	U=0.02mg/L		
				Total N：（2～500）mg/L	U_{rel}=1.9%		
84	*Bomb Calorimeters	Calorie	Verification regulation of Bomb Calorimeters JJG 672	（26400～26500）J/g	U_{rel}=0.12 %		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
85	*Rotational Rheometers	Temperature	Calibration Specification for Rotational Rheometers JJF 2134	（-60～250）℃	U=0.3℃		
		Viscosity		（0.1～1000）Pa•s	U_{rel}=7%		
86	*Gas Detectors of Acrylonitrile	Concentration	Calibration Specification for Gas Detectors of Acrylonitrile JJF 2113	（2.0～10.0）μmol/mol	U=0.3 μmol/mol		
				（10～80）μmol/mol	U_{rel}=3.1%		
		Time		（1～300）s	U=1s		
87	*Oxidation-Reduction Potential Meter	Potential	Calibration Specification of Oxidation-reduction Potential Meters JJF（Zhe）1206	Electrometer：（-2000～2000）mV	U=0.02%FS		
				Instrument：（34～268）mV	U=1.2mV		
88	*Protein Purification Analyzers	Flow	Calibration Specification for Protein Purification Analyzers JJF 2204	(0.2～5) mL/min	U_{rel}=0.7%		
				(5～50) mL/min	U_{rel}=0.8%		
				(50～2500) mL/min	U_{rel}=1.6%		
		pH		3～10	U=0.02		
		conductivity		(100～1500) μS/cm	U=1.8 μS/cm		
		temperature		(2～30) ℃	U=0.4℃		
		volume		(10～1000) μL	U=(1～3) μL		
				(5000～50000) μL	U=14 μL		
89	*Extrusion Plastometers	quality	Verification Regulation of Extrusion Plastometers JJG 878	(0.325～21.60)kg	U_{rel}=(0.10～0.18)%		
		Length		Piston head diameter：9.474mm	U=0.002mm		
				Piston head diameter：(0.2～30)mm	U=0.03mm		

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		Time		(10～60)s	U_{rel}=(0.08～0.5)%		
		Temperature		(125～300)℃	U=0.3℃		
		Flow rate		Mass flow rate：(1～7) g/10min	U_{rel}=(4～8)%		
				Volume flow rate：(3.86～4.56)cm^3/10min	U_{rel}=9%		
九、Special test							
1	*Electrosurgical Generator	Output Power	C.S.for Electrosurgical Generator JJF 1217	(10～50)W	U=(3～5)W		
				(50～400)W	U_{rel}=6%		
2	*Cardiac defibrillators	delivered energy	C.S.for Cardiac Defibrillators JJF 1149	(2～40)J	U=2J		
				(40～360)J	U_{rel}=5%		
		pulse frequency		(40～200)min^{-1}	U_{rel}=1%		
		pulse width		(20～50)ms	U=0.5ms		
		pulse current amplitude		(1～10)mA	U=0.2mA		
				(10～100)mA	U_{rel}=1.3%		
		direct voltage		（0.5～2.0）mV	U_{rel}=2.8%		
		Scanning speed		25mm/s	U_{rel}=0.3%		
		Amplitude-frequency characteristics		1mV（1Hz～25Hz）	U_{rel}=1.4%		
		Heart Rate		(30～200)min^{-1}	U=1time/min		

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3	*Multifunction Patient Monitoring Instruments	Electrocardio voltage	V.R.of Multifunction Patient Monitoring Instruments JJG 1163	(0.5～2.0)mV	U_{rel}=2.8%	/	
		Scanning speed		(25～50)mm/s	U_{rel}=0.3%		
		Heart Rate		(30～200)min^{-1}	U=1time/min		
		Pressure		(6～40)kPa	U=0.26kPa		
		Pulse rate		(30～200)min^{-1}	U=1time/min		
		Amplitude-frequency characteristics		1mV（1Hz～25Hz）	U_{rel}=1.4%		
4	*Ventilators	Tidal Volume	C.S.for Ventilators JJF1234	（50～1000）mL	U_{rel}=5%	/	
		Frequency		（10～40）min^{-1}	U_{rel}=4%		
		Inspiratory Flow Oxygen Concentration		21%～100%	U=4%		
		Pressure		（0.2～3）kPa	U_{rel}=6%		
5	*Hemodialysis Equipment	Dialysate Conductivity	C.S.for Hemodialysis Equipment JJF 1353	(12.5 ～15.5)mS/cm	U_{rel}=1.2%	/	
		Dialysate Temperature		(25 ～40)℃	U=0.2℃		
		Static (arterial) pulse pressure		（20～100）kPa	U=0.4kPa		
		Flow		Dialysate Flow：（400～800）mL/min	U_{rel}=3.6%		

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				Anticoagulant pump injection flow：（5～20）mL/h	U_{rel}=2.6%		
				Blood Flow：（400～800）mL/min	U_{rel}=3.6%		
		Dehydrating capacity		500mL/h、1000mL/h	U_{rel}=2.7%		
6	*Tester for Ductility of Bituminous Materials	Temperature	Verification Regulation of Tester for Ductility of Bituminous Materials JJG（JT） 023	(0～50)℃	U=0.11℃		
		Speed		(10～50) mm/min	U=0.02mm/min		
		Length		(0～200)mm	U=0.03mm		
				(200～3000)mm	U=1.1mm		
		Roughness		(0.1～10) μm	U_{rel}=6.6%		
7	*Electric Compaction Instrument	Weight	Verification Regulation of Compaction Instrument of Soil JJG（JT）058	（0～5000）g	U=0.3g	/	
		Length		（0～1000）mm	U=1.0mm		
		Length		（0～500）mm	U=0.03mm		
		Length		(0.05～14.80)mm	U=0.02mm		
8	*Apparatus for Softening Point of Bitumen	Weight	Verification Regulation of Apparatus for Softening Point of Bitumen JJG（JT ） 057	（0～210）g	U=0.02g	/	
		Length		（0～200）mm	U=0.03mm		
		Temperature		（0～100）℃	U=0.1℃		
		Volume		（0～1000）mL	U=2.0mL		
		Heating Rate		（0～10）℃/min	U=0.4℃/min		

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9	*Cement Consistency and Setting Time Detector	Weight	Verification Regulation for cement testing apparatus of the onrmal consistency and setting time JJG (JC) 105	（0～500）g	U=0.3g	/	
		Angle		(0～120)°	U=3'		
		Length		（0～100）mm	U=0.04mm		
10	*Jolting Table for Compacting Mortars Specimen	Length	Calibration Specification for Jolting Table for Compacting Mortars Specimen JJF(JC) 124	（0.5～100）mm	U=0.12mm		
		Weight		（0～35000）g	U=0.3g		
		Time		（0～3600）s	U=0.12s		
11	*Biological, Chemical, Sterile Pharmaceutical Production Equipment	Temperature	Calibration Specification for Biological, Chemical, Sterile Pharmaceutical Production Equipment SQI/JL-JF-42	(-100～600)℃	U=（0.03～0.08）℃	/	
		Pressure		Element pressure gauges; （-0.1～60）MPa	U=0.68%FS		
		Pressure		Digital pressure gauges：（0～60）MPa	U=0.06%FS		
		Revolution Speed		(2.5～30000) r/min	U_{rel}=0.3%		
		Flow		（0.5～38）m^3/h	U=0.34%FS		
12	*Inspecting Instrument of Construction Engineering and Building Materials	Length	Calibration Specification for Inspecting Instrumentof Construction Engineering and Building Materials SQI/JL-JF-41	Height:(0～1000) mm	U=0.2mm	/	
		Length		Amplitude:(0～10) mm	U=0.02mm		
		Length		Displacement:(0.5～291.8) mm	U=2.0mm		
		Length		(0～3.5) m	U= 2mm		
		Length		Diameter:(0～500) mm	U=0.04mm		
		Length		Gap Value:(0.05～2)mm	U=0.06mm		
		Vertical Degree		(0～200) mm	U= 0.03mm		

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		Revolution Speed		(2.5～30000) r/min	U_{rel}=0.3%		
		Angle		(-120～120) °	U= 0.6′		
		Pressure		Pressure Gauge（-0.1～60）MPa	U=0.68%FS		
		Pressure		Digital Pressure Gauges（0～60）MPa	U=0.06%FS		
		Temperature		(-100～600)℃	U=0.08℃		
		Time		（0～10）h	U=0.06s		
		Weight		(0～35)kg	U=1.5 g		
13	*Board Compression Strength Tester	force	Verification Regulation of Board Compression Strength Tester JJG(QG)49	(0.5～6000)N	U_{rel}=0.4%		
14	*Compression Strength Tester for Corrugated Box	force	Verification Regulation of Compression Strength Tester for Corrugated Box JJG(QG)115	(0.0005～50)kN	U_{rel}=0.4%		
15	*MIT Type Folding Apparatus	force	Verification Regulation of MIT Type Folding Apparatus JJG(QG)59	15N	U=0.1N		
		Rotation Speed		175r/min	U_{rel}=0.5%		
16	*Paper and Cardboard Bursting Strength Meter	Pressure	Calibration Specification for Bursting Strength Tester for Paper and Board JJF(QG) 116	(0.1～6)MPa	U=3.9kPa		
17	*Board Puncture Strength Tester	force	Verification Regulation of Board Puncture Strength Tester JJG(QG)56	(0.5～500)N	U_{rel}=0.4%		

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18	*Pendulum-type Paper Tensile Breaking Strength Testing Machine	Force	Calibration Specification for Tensile Strength Testing Machines for Paper and Board JJF(QG)115	0.5N～50kN	U_{rel}=0.4%		
19	*Horizontal Tensile Breaking Strength Testing Machine	force	Verification Regulation of Horizontal Tensile Breaking Strength Testing Machine JJG(QG)58.2	(0.5～1000)N	U_{rel}=0.4%		
20	*Paper and Cardboard Thickness Tester	Length	Verification Regulation of Paper and Cardboard Thickness Tester JJG(QG)50.1	(0.5～100)mm	U=6.2 μ m		
21	*Corrugated Plate Thickness Tester	Length	Verification Regulation of Corrugated Plate Thickness Tester JJG(QG)50.2	(0.5～100)mm	U=6.2 μ m		
22	*Configuration Fatigue Tester for Part of Bicycle	Static force value	Calibration Specification for Configuration Fatigue Tester for Part of Bicycle JJF(QG)106	（0.1～50000）N	U_{rel}=0.2%		
		Dynamic force value		（50～10000）N	U_{rel}=1.0%		
		Frequency		（10～10000）r/min	U_{rel}=0.2%		
		Frequency		（100～10000）次	U=1 次		
23	*Static Load Tester for Part of Bicycle	Force value	Calibration Specification for Static Load Tester for Part of Bicycle JJF(QG121	（10～50000）N	U_{rel}=0.2%		
		Time		（0.01～3600）s	U=0.13s		
24	*Wearing Tester for Axle Bowl、Pedal and Axle of Bicycle	Force value	Calibration Specification for Wearing Tester for Axle Bowl、Pedal and Axle of Bicycle JJF(QG)123	（50～50000）N	U_{rel}=0.4%		
		Rotation Speed		（10～5000）r/min	U_{rel}=0.6%		
25	*Wheel Tires Fatigue Testing	force	Calibration Specification for Wheel Tires Fatigue Tester	1N～50kN	U_{rel}=0.5%		

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	Machine	speed	SQI/JL-JF-17	(0.1～10)m/s	U_{rel}=3.2%		
		Length		(1～300)mm	U=0.04mm		
26	*Brake Performance Tester	force	Calibration Specification for Brake Performance Tester SQI/JL-JF-22	1N～50kN	U_{rel}=0.69%		
		speed		(0.1～10)m/s	U_{rel}=2.0%		
27	*Impact Tester for Part of Bicycle	Length	Calibration Specification for Impact Tester for Part of Bicycle JJF(QG)122	（0～600）mm	U=0.02mm		
				（600～5000）mm	U=0.7mm		
		Quality		10g～1000kg	U_{rel}=0.2%		
		Hardness		（20～70）HRC	U=0.7HRC		
28	*Vibration Tester of Bicycle	Rotation speed	Calibration Specification for Vibration Tester of Bicycle JJF(QG)107	（10～10000）r/min	U_{rel}=0.2%		
		Acceleration		（0.5～10）m/s^2	U_{rel}=1.0%		
		Force value		（50～50000）N	U_{rel}=0.4%		
		Amplitude		（2～20）mm	U_{rel}=0.5%		
29	*Steering force-steering angle detectors for steering wheels of motor vehicles	Torque	Calibration specification for Steering force-steering angle detectors for steering wheels of motor vehicles JJF1196	（1～1000）Nm	U_{rel}=0.72%		
		Force		（0.5～1000）N	U_{rel}=0.60%		
		Angle		（1～1000）°	U=0.1°		
30	*Roller Type Speedmeter Tester	Speed	Roller Type Speedmeter Tester JJG909	（0.1～200）km/h	U_{rel}=0.31%		
31	*Measurer for Adhesion Performance of Retroreflective Sheeting	Length	Verification Regulation of Measurer for Adhesion Performance of Retroreflective Sheeting JJG (JT) 083	(0～500)mm	U=0.07mm		
		Weight		(0～850)g	U=0.2g		

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32	*Measurer for Impact Resistance of Retroreflective Sheeting	Length	Verification Regulation of Measurer for Impact Resistance of Retroreflective Sheeting JJG (JT) 084	(0～500)mm	U=0.08mm		
		Weight		(0～1000)g	U=0.2g		
33	*Measurer for Resistance to Impact of Raised Pavement Markers	Length	Verification Regulation of Measurer for Resistance to Impact of Raised Pavement Markers JJG (JT) 080	(0～1500)mm	U=1.0mm		
		Weight		(0～2000)g	U=0.6g		
34	*Fibrics Bursting Tester	Pressure	Calibration Specification for Fabric Bursting Tester JJF（FZ）048	(0～2.5)MPa	U=0.003MPa		
		Time		(0～60)s	U=0.04s		
		Length		Bursting Expansion：(0.5～100)mm	U=0.02mm		
		Length		Aperture：(0～500)mm	U=0.06mm		
35	*Yarn Twist Tester	Force	Calibration Specification for Yarn Twist Tester JJF (FZ) 010	(0.1～20)N	U_{rel}=0.2%		
		Rotation Rate		(10～5000)r/min	U_{rel}=0.3%		
		Length		(0～500)mm	U=0.06mm		
36	*Fibre Strength Tester	Length	Calibration Specification for Fibre Strength Tester JJF (FZ) 016	(0～40)mm	U=0.03mm		
		Force		(0.01～200)cN	U_{rel}=0.6%		
		Mass		(0～100)g	U=0.020g		
		Velocity		(0.05～600)mm/min	U_{rel}=0.2%		
37	*Sock Stretch Tester	Length	Calibration Specification for Sock Stretch Tester JJF (FZ) 017	(0～500)mm	U=0.06mm		
		Velocity		(1～200)mm/s	U_{rel}=0.2%		
		Force		(1～100)N	U_{rel}=0.2%		

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38	*Wrap Reelers	Force	Calibration Specification for Yarn Wrap Reel Machines JJF (FZ) 019	(5～200)cN	U_{rel}=0.4%		
		Length		(30～1000)mm	U=0.3mm		
39	*Textile Yarn Length Tester	Length	Calibration Specification for Textile Yarn Length Tester JJF (FZ) 021	(0～1000)mm	U=0.06mm		
		Force		(0.01～200)cN	U_{rel}=0.6%		
40	*Roller Fiber Length Analyzer	Length	Calibration Specification for Roller Fiber Length Analyzer JJF (FZ) 024	(0～150)mm	U=0.04mm		
41	*Corlour Fastness to Friction Testers	Rotation Rate	Calibration Specification for Corlour Fastness to Friction Testers JJF (FZ) 027	(10～200）r/min	U_{rel}=0.2%		
		Force		(0.5～100)N	U_{rel}=0.4%		
		Length		(0～150)mm	U=0.04mm		
42	*Colour Fastness to Perspiration Testers	Mass	Calibration Specification for Colour Fastness to Perspiration Testers JJF (FZ) 028	(3000～6000) g	U=0.20g		
43	*Circular Locus Method Fuzzing and Pilling Testers	Speed	Calibration Secification for Circular Locus Method Fuzzing and Pilling Testers JJF (FZ) 031	（0.1～100）r/min	U_{rel}=0.2%		
		Length		（0.1～5）mm	U=0.03mm		
				（5～150）mm	U=0.04mm		
		Force		（0.1～1000）cN	U=0.64cN		
44	*Vertical Fabric Crease Recovery Tester	Length	Calibration Specification for Vertical Fabric Crease Recovery Tester JJF (FZ) 032	(1～150)mm	U=0.06mm		
		Mass		1g～2kg	U=0.15g		
		Time		(1～600)s	U=0.13s		
		Angle		(0～200)°	U=0.02°		

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45	*Fabric Drapability Tester	Rotation Rate	Calibration Specification for Fabric Drapability Tester JJF (FZ) 033	(10～500)r/min	U_{rel}=1.4%		
		Length		180mm，120mm	U=0.06mm		
		Drape coefficient		30%～100%	U_{rel}=1.5%		
		Time		(0～300)s	U=0.4s		
46	*Fabric Flat-Rubbing Tester	Rotation Rate	Calibration Specification for Fabric Flat-Rubbing Tester JJF (FZ) 036	(10～500)r/min	U_{rel}=0.3%		
		Length		(0.1～150)mm	U=0.04mm		
		Mass		(0.1～600)g	U=0.020g		
				(600～1000)g	U=0.13g		
				(1000～2000)g	U=0.15g		
				(2000～3000)g	U=0.20g		
47	*Fuzzing and Pilling Tester	Length	Calibration Specification for Fuzzing and Pilling Tester JJF (FZ) 053	(0～300)mm	U=0.05mm		
		Friction Coefficient		0.4～1.0	U_{rel}=0.2%		
		Rotation Rate		(10～100）r/min	U_{rel}=1.4%		
		Mass		(0.1～100)g	U=0.020g		
		hardness		（20～80）HA	U=1.2HA		
48	*Tester of Filament Crimp Shrinkage	Force	Calibration Specification for Tester of Filament Crimp Shrinkage JJF (FZ) 057	(0.025～50)N	U_{rel}=0.58%		
		Length		(0～1000)mm	U=0.22mm		
		Time		0.1s～1h	U=0.18s		

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49	*Electronic Fabric Strength Machines	Time	Calibration Specification for Electronic Fabric Strength Machines JJF (FZ) 062	(0～3600)s	U=0.13s		
		Length		(0～500)mm	U=0.06mm		
		Force		(0.1～5000)N	U_{rel}=1.3%		
		Mass		(0.1～3000)g	U=0.15g		
50	*Down-proof Properties of Fabrics(Rubbing Test)	Length	Calibration Specification for Down-proof Properties of Fabrics(Rubbing Test) JJF (FZ) 064	(0～500)mm	U=0.06mm		
		Rotation Rate		(10～500)r/min	U_{rel}=0.3%		
51	*Fabric Shedding Testers	Length	Calibration Specification for Fabric Shedding Testers JJF (FZ) 084	(0～500)mm	U=0.06mm		
		Rotation Rate		(10～100)cpm	U_{rel}=0.2%		
		Mass		(0.5～1200)g	U=0.15g		
52	*Fabric Induction Electrometer Meter	Time	Calibration Specification for Fabric Induction Electrometer Meter JJF (FZ) 070	(0～60)s	U=0.16s		
		Rotate speed		(50～2000) r/min	U_{rel}=0.12%		
		Length		(0～300)mm	U=0.03mm		
		Voltage		(0.05～12)kV	U_{rel}=0.6%		
53	*Rotary Friction Electrostatic Tester	Time	Calibration Specification for Rotary Friction Electrostatic Tester JJF (FZ) 069	(0～600)s	U=0.16s		
		Rotate speed		(50～500) r/min	U_{rel}=0.12%		
		Length		(0～300)mm	U=0.03mm		
		Voltage		(0.01～1000)V	U_{rel}=0.2%		
		Mass		(0～1000)g	U=0.024g		
54	*Textiles 45°	Length	Calibration Specification for	(0～150)mm	U=0.04mm		

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	Combustion Tester	Length	Textiles 45° Combustion Tester JJF(FZ)087	(150～1000)mm	U=0.5mm		
		Time		(0～60)min	U=0.16s		
		Weight		(0～500)g	U=0.018g		
		Degree		(0～90)°	U=0.2°		
55	*Vertical Combustion Testers	Length	Calibration Specification for Vertical Combustion Testers JJF(FZ)068	(0～150)mm	U=0.06mm		
		Length		(150～900)mm	U=0.5mm		
		Time		(0～10)min	U=0.17s		
		weight		(0～500)g	U=0.012g		
		Degree		(0～90)°	U=0.2°		
		Speed		(0～60)mm/s	U=0.36mm/s		
56	*Textile Frictional Static Charges Tester	Static Charges	Calibration Specification for Textile Frictional Static Charges Tester JJF（FZ）071	(0.05～1.1) μ C	U=0.002 μ C		
		Length		(0～1000)mm	U=0.5mm		
57	*Scorch and Sublimation Tester	temperature	Calibration Specification for Scorch and Sublimation Tester JJF（FZ）029	deviation：（0~250）℃	U=1.3℃		
				volatility：（0～250）℃	U=0.5℃		
		Time		1ms～30s	U=0.40s		
		gravity value		（0.4～16）N	U=0.4N		
58	*Eight-Basket Oven	Temperature	Calibration Specification of Eight-Basket Oven JJF（Textile）011	（0～300）℃	U=0.3℃		
		Basket quality		(1～500)g	U=2.0mg		

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59	*Constant Temperature Humidity Chambers	Temperature	Calibration Specification of Constant Temperature Humidity Chamber JJF(Textile)060	（0～300）℃	U=0.22℃		
		Humidity		（10～90）%RH	U=1.2%RH		
		wind speed		（0.4～20）m/s	U=0.10m/s		
60	*Light and Weather Fastness Testers	temperature	Calibration Specification for Light and Weather Fastness Testers JJF（Textile）051	Test chamber：（0～80）℃	U=0.5℃		
				Black plate：（20～150）℃	U=1.1℃		
				Black standard：（20～150）℃	U=0.9℃		
		humidity		(10～90)%RH	U=1.5%RH		
		Speed		（0.1～10）r/min	U_{rel}=0.7%		
		Time		0.1s～1h	U=0.2s		
		Iiradiance		300nm～400nm: （0.1～50.00）W/m^2	U_{rel}=10%		
				420nm: （0.01～2.00）W/m^2	U_{rel}=10%		
61	*Textiles Solar Ultraviolet Radiation Protective Properties Testers	Wavelength	Calibration Specification for Textiles Solar Ultraviolet Radiation Protective Properties Testers JJF（FZ）081	（200～500）nm	U=0.8nm		
		Transmittance		8%～35%	U_{rel}=1.6%		
				0.8%～1.1%	U_{rel}=14%		
62	*Medicinal Magnetic Resonance Imaging System (MRI)	Magneticfield strength	V. R. for Medicinal Magnetic Resonance Imaging System JJG（HU）54	10mT～1900mT	U_{rel}=1.5%		
		Length		0.5mm～100mm	U=0.3mm		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
63	*Voltage Dips, Short Interruptions and Voltage Variations Test Generators	Voltage	Calibration Specification for Voltage Dips, Short Interruptions and Voltage Variations Test Generators JJF 1673	10mV～360V	U_{rel}=0.2%		
		Rising and falling time		Rise time（1～50）μs，Descent time（1～50）μs	U_{rel}=4.0%		
		Time		1ms～60s	U_{rel}=2.0%		
		Phase angle		（0～360）°	U=2°		
		Peak impulse current		（10～1200）A	U_{rel}=3.2%		
64	*Oscilloscope Current Probes	DC Current	Calibration Specification ofOscilloscope Current Probes JJF（Electronics）0036	±(10mA～100A)	U_{rel}=0.08%		
				±(100A～750A)	U_{rel}=0.8%		
		AC Current		10mA～100A	U_{rel}=0.08%		
				100 A～500 A	U_{rel}=0.8%		
		DC Current attenuation coefficient		1:1～1000:1±（10mA～100A）	U_{rel}=0.08%		
				1:1～1000:1±(100A～750A)	U_{rel}=0.8%		
		AC Current attenuation coefficient		1:1～1000:1（10mA～100A）	U_{rel}=0.08%		
				1:1～1000:1（100 A～500 A ）	U_{rel}=0.8%		
		Bandwidth		DC～200MHz	U=0.21dB		
		Rise/fall time		(1～50)ns	U_{rel}=6.3%		
65	*Flow analyzers swith Spectrophotograph	Wavelength	Calibration Specification for Flow analyzers swith Spectrophotography JJF 1568	（360～800）nm	U=1.6nm		

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	y	Detectionlimit		Cyanogen:（0～0.1）mg/L	U=0.0003mg/L		
		Detectionlimit		Volatile Phenol:（0～0.1）mg/L	U=0.0003mg/L		
		Detectionlimit		Hexavalent Chromimum:（0～1）mg/L	U=0.001mg/L		
		Detectionlimit		Sulfide:（0～1）mg/L	U=0.002mg/L		
		Detectionlimit		Total Phosphorus:（0～5）mg/L	U=0.002mg/L		
		Detectionlimit		Total Nitrogen :（0～5）mg/L	U=0.02mg/L		
		Detectionlimit		Ammonia Nitrogen:（0～5）mg/L	U=0.02mg/L		
		Detectionlimit		Anion Active Derergent:（0～5）mg/L	U=0.04mg/L		
66	*Calibration Specification of Top Open Washing Shrinkage Testers	water level	Calibration Specification of Top Open Washing Shrinkage Testers JJF(FZ) 092	(30～80)L	U=0.5L		
		Speed		(20～180)次/min	U=0.5 次/min		
		time		(180～3600)s	U=5.0s		
		rotation rate		(20～1000)r/min	U_{rel}=0.3%		
67	*Down Filling Power Tester	Length	Calibration Secification for Down Filling Power Tester JJF（FZ）074	Heigth（0～1000）mm	U=0.3mm		
				Inner diameter：（0～300）mm	U=0.10mm		
				Plate diameter：（0～300）mm	U=0.10mm		
		Quality		（1～500）g	U=0.020g		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
68	*Crimp Elastic Tester	Fixed length distance	Calibration Specification for Crimp Elastic Tester JJF（FZ）040	Length：（0～50）mm	U=0.04mm		
				Descending stroke：（0～30）mm	U=0.02mm		
		Quality		（0～1000）mg	U=1.7mg		
		Time		（0～360）s	U=0.4s		
		Force		（0.1～100）mN	U=0.01mN（0.2index）		
69	*Damped Oscillatory Wave Simulators	Voltage	Calibration Specification for Damped Oscillatory Wave Simulators JJF 2016	（0.25～4）kV	U_{rel}=3.7%		
		Current		（1.25～80）A	U_{rel}=3.5%		
		Time		10ns～10s	U_{rel}=3.1%		
		Frequency		100kHz～30MHz	U_{rel}=3.1%		
70	*Impulse voltage measurement system	Voltage	Calibration Regulation of impulse voltage measurement systems JJF(JX)1029	（1～300）kV	U_{rel}=1.0%		
		Time		100ns～1s	U_{rel}=2.0%		
71	Pitot tubes	Calibration coefficient	Verification Regulation of Pitot Tubes JJG 518	L-type ： 0.99～1.01	U_{rel}=2.7%	Except for L Standard Pitot Tube	
				S-type：0.81～0.86	U_{rel}=2.4%		
72	Thermo-anemoscopes	wind speed	Calibration Specification for Thermo-anemoscopes JJF 1939	（0.2～5）m/s	U=0.10m/s		
				（5～30）m/s	U=（0.12～0.16）m/s		
73	*Urine Analyzers	urine protein concentration	Calibration Specification of Urine Analyzers JJF 1129	（0.1～3.0）g/L	U_{rel}=10%		
		pH		4.5～8.0	U_{rel}=5%		
		urine glucose concentration		（0.1～56）mmol/L	U_{rel}=6%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		specific gravity		1.000～1.030	U=0.007		
		red blood cell concentration		（10～200）count/μL	U_{rel}=11%		
		white blood cell concentration		（15～300）个/μL	U_{rel}=12%		
74	*Current Coils	AC current voltage conversion value	Calibration Specification of Current Coils JJF（HuSuZheWan）4008	0.01A～2kA（50Hz）	U_{rel}=0.1%		
		DC current voltage conversion value		0.01A～2kA	U_{rel}=0.02%		
75	*Cable Fault Flashover Tester	Distance	Calibration Specification for Cable Fault Flashover Tester JJF（Zhe）1164	20m～170km	U=1.2m		
76	*High Temperature Dynamic IC Barn-in System	Temperature	Calibration Specification of High Temperature Dynamic IC Barn-in System JJF 1179	（20～150）℃	U=0.20℃		
		Pulse width		100ns～10s	U_{rel}=3%		
		DC voltage		100mV～20V	U_{rel}=0.1%		
		AC voltage		100mV～20V（1Hz～50Hz）	U_{rel}=2.0%		
				100mV～20V（50Hz～32kHz）	U_{rel}=0.12%		
		Frequency		1Hz～32kHz	U_{rel}=0.3%		
77	Film Applicator Blades	Length	Calibration Specification for Film Applicator Blades JJF(SH)053	Gap depth：（25～200）μm	U=1.7 μ m		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				Gap depth：（200～1200）μm	U=12 μ m		
				Gap length：（0～150）mm	U=0.04mm		
78	Anti-Sag Meter	Length	Calibration Specification for Anti-Sag Meters JJF(SH)052	Groove depth：（40～100）μm	U_{rel}=2.4%		
				Droove depth：（100～1100）μm	U_{rel}=1.7%		
				Groove width：（5～7）mm	U=0.04mm		
				Groove spacing：（1～2）mm	U=0.02mm		
79	*Non-invasive Ventilators	Airway pressure	Calibration Specification for Non-invasive Ventilators JJF 1997	（0.2～3.0）kPa	U=0.2kPa		
		Respiratory rate		（10～40）min^{-1}	U_{rel}=3%		
		Inspiration flow oxygen		21%～100%	U=3%		
80	*Emergency and transport Ventilators	Tidal volume	Calibration Specification for Emergency and transport Ventilators JJF 1998	（50～1000）L/min	U_{rel}=5%		
		Pressure		Positive End-expiratory Preasure：（0.2～1.0）kPa	U=0.2kPa		
				Airway Peak Preasure：（1.0~3.0）kPa	U=0.2kPa		
		Respiratory rate		（10～40）min^{-1}	U_{rel}=3%		
81	*Transmittance Meter of Automobile	Transmittance	Calibration Secification for Transmittance Meter of Automobile JJF 1225	（48～82）%	U=0.7%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
82	*Manipulating Force Tester for Automotive Brake	Force	Calibration Secification for Manipulating Force Tester for Automotive Brake JJF 1169	（100～1000）N	U_{rel}=0.2%		
83	*Automobile Brake Pedal Force Tester	Force	Verification Regulation of Automobile Brake Pedal Force Tester JJG(JT)008	（0.5～1000）N	U_{rel}=0.2%		
84	*Flow Cytometers	Counting ratio	Calibration Specification for Flow Cytometers JJF 1665	60%～90%	U_{rel}=10%		
85	*Battery Charge&Discharge Testers	DC Voltage	Calibration Specification for Battery Charge&Discharge JJF 2039	1V～1kV	U_{rel}=0.01%	Charge and discharge time only for time interval measuring instrument method；temperature only for temperature secondary instruments calibration method；the DC current measured in the laboratory only for no more than 1000A.	
		DC Current		1mA～20A	U_{rel}=0.02%		
				20A～500A	U_{rel}=0.15%		
				500A～3kA	U_{rel}=0.30%		
		DC Resistance		0.1Ω～100kΩ	U_{rel}=0.05%		
		DC Power		1mW～1kW	U_{rel}=0.04%		
				1kW～30kW	U_{rel}=0.2%		
		Voltage period and random deviation		1mV～10V（20Hz～20MHz）	U_{rel}=4.0%		
		Current period and random deviation		1mA～10A（20Hz～20MHz）	U_{rel}=4.0%		
		Current rise time		10μs～100ms	U_{rel}=4.0%		
		Charge and discharge		60s～3600s	U=0.2s		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		time		3600s～36000s	U=1.3s		
				36000s～86400s	U=3.1s		
		Capacity		10mAh～720Ah	U_{rel}=0.2%		
				720Ah～120kAh	U_{rel}=0.5%		
		Temperature		-40℃～100℃	U=0.2℃		
86	*C-reactive Protein Analyzers	Concentration	Calibration Specification for C-reactive Protein Analyzers JJF 2057	(3～20)mg/L	U_{rel}=12%		
				(20～85）mg/L	U_{rel}=9%		
87	*Nucleic Acids Analyzers	Concentration	Calibration Specification for Nucleic Acids Analyzers JJF 1817	(0.1～40)ng/μL	U_{rel}=7%		
88	*Clean Benches	Wind speed	Calibration Specification for Performance Parameters of Clean Benches JJF 2053	(0.20～1.00)m/s	U=0.04 m/s	Microbial culture for product protection (settle plate method) is conducted at No. 381, Cangwu Road.	
十、Gvometric sense							
1	GNSS receivers	consistency of antenna phase center	Verification Regulation of GNSS Receivers (Geodetic or Navigational Type) JJG1200	Antenna phase center consistency：（0～10）mm	U=1.8mm		
		length		（0～46.5）km	U=（1.5～16）mm		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
2	Fineness of Grind Gage	length	Verification Regulation for Fineness of Grind Gage JJG905	(0～150) μm	U=(0.5～1.1) μm		
十一、Engineering parameter							
1	*ExtensoMeter	displacement	Verification Regulation of Extensometers JJG762,Standard Practice for Verification and Classification of Extensometer Systems ASTM E83	(0.02～0.3) mm	U=0.72um		
				(0.3～50) mm	U_{rel}=0.17%		
				(50～800) mm	U_{rel}=0.20%		
十二、Ionizing radiation							
1	*X-ray Radiation Sources for Medical Computed Radiography System and Digital Radiography System	ESAK	Verification Regulation of X-ray Radiation Sources for Medical Computed Radiography System and Digital Radiography System JJG1078	0.1 μGy～999Gy	U_{rel}= 5.5 %		
		Tube voltage		(50～120)kV	U_{rel}=2.4%		
2	*X-ray radiation source of medical diagnostic digital subtraction angiography (DSA) system	air kerma rate	Verification regulation of X-ray radiation source of medical diagnostic digital subtraction angiography (DSA) system JJG 1067	60 μGy/min～1Gy/min	U_{rel}=5.9%		
		tube voltage		(50～120)kV	U_{rel}=2.4%		
3	*Medical Diagnostic X-ray Source for Dental Panorama	air kerma rate	Verification Regulation of Medical Diagnostic X-ray Source for Dental Panorama JJG 1101	60 μGy/min～1Gy/min	U_{rel}=5.9%		
		tube voltage		(50～120)kV	U_{rel}=2.4%		
		time		50ms～1s	U_{rel}=1.2%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
4	*Medical X-ray Radiation Sources for Mammographic Equipment	average glandular dose	Verification Regulation of Medical X-ray Radiation Sources for Mammographic Equipment JJG 1145	0.1mGy～0.1Gy	U_{rel}=9.3%		
		tube voltage		(22～40)kV	U_{rel}=2.5%		
5	*Medical Diagnostic X-ray Radiation Source for Spiral Computed Tomography(CT)	CT Dose Index	Verification Regulation of Medical Diagnostic X-ray Radiation Source for Spiral Computed Tomography(CT) JJG 961	0.01mGy～300mGy	U_{rel}=4.6%		
6	*X-ray Flaw Detectors	Air Kerma Rate	Verification Regulation of X-ray Flaw Detectors JJG 40	（0.001～10）Gy/min	U_{rel}=5%		
7	*X 、gamma-ray Densitometry for Bone Mineral Density	Bone width	Verification Regulation of X 、gamma-ray Densitometry for Bone Mineral Density JJG 1050	0.8cm～1.6cm	U_{rel}=0.9%		
		Bone mineral content		0.3g/cm～2.0 g/cm	U_{rel}=0.9%		
		Bone density		0.5g/cm^2～1.5g/cm^2	U_{rel}=0.8%		

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