Name: Inner Mongolia Institute of Metrology and Testing

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Registration No. CNAS L1645

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

Effective Date: 2026-09-29 Expiry Date: 2030-11-06

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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
1、 Geometric quantity							
1	Third class standard metal linear ruler	Length	Verification regulation of third-class standard metal linear ruler JJG71	（0～100）mm	U=4.0 μm		
				（100～300）mm	U=9.0 μm		
				（300～500）mm	U=11 μm		
				（500～1000）mm	U=15 μm		
2	Steel Measuring Tapes	Length	Verification Regulation of Steel Measuring Tapes JJG 4	（0～200）m	U=0.1mm+2×$10^{-5}L$		
3	*Toolmaker’s Microscope	Length	Verification Regulation of Toolmaker’s Microscope JJG56	（0～200）mm	U=0.2 μm+4×$10^{-6}L$		
4	*Projector	Length	Calibration Specification for Projectors JJF 1093	(0 ～100)mm	U=0.7 μm+8.7×$10^{-6}L$		
5	Gauge Biocks	Length	Verification Regulation of Cauge Biocks JJG146	(0.5～1000)mm	U=0.20 μm+2×$10^{-6}Ln$(k=2.6)		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
6	Micrometer	Length	Verification Regulation of Micrometer JJG 21	(0～500)mm	U=0.9 μm+7.4×10^{-6}L		
7	Large Dimension Outside Micrometers	Length	Calibration Specification for Large Dimension Outside Micrometers JJF 1088	(500～1000)mm	U=1.1 μm+8×10^{-6}L		
8	*Dial Gauges	Length	Verification regulation of indicator (pointer type and digital display type) JJG34	div0.001mm：（0～1）mm	U=2 μm		
				div0.01mm：（0～10）mm	U=6 μm		
				div0.01mm：（10～100）mm	U=8 μm		
9	Dial Test Indicator	Length	Verification Regulation of Dial Test Indicator JJG 35	（0～1.0）mm	U=2.6 μm		
10	Bore Dial Indicators	Length	Calibration Specification for Bore Dial Indicators JJF 1102	div0.01mm：（10～100）mm	U=4.0 μm		
				div0.001mm：（10～100）mm	U=2.0 μm		
11	Current Calipers	Length	Verification Regulation of Current Calipers JJG 30	（0～1000）mm	U=4 μm+2×10^{-5}L		
12	Height Caliper	Length	Verification Regulation of Height Caliper JJG 31	（0～1000）mm	U=7 μm+1.6×10^{-5}L		
13	*Tester for Dial Indicator Gauges	Length	Verification Regulation of Testers for Dial Gauges JJG 201	（0～25）mm	U=0.6 μm		
14	Angle block	Angle	Verification regulation of angle block JJG70	15° 10′ ～90°	U=3″		
15	*Optimeter	Length	Verification Regulation of Optimeter JJG 45	(-100～+100) μm	U=0.08 μm		
16	Autocollimators	Angle	Verification regulation of Autocollimator JJG202	0′ ～10′	U=0.6″		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
17	General Bevel Protractors	AngleGauge	Calibration specification for universal angle ruler JJF 1959	0° ～360°	U=1′		
18	Frame Levels and Shaft Levels	AngleGauge	Calibration Specification for Frame Levels and Shaft Levels JJF 1084	(0.02～0.10)mm/m	U_{rel}=5.8%		
19	Electronic level and Coincidence Levels	Angle	Verification regulation of electronic level and combined image level JJG103	Electronic level：（-5～+5）mm/m	U=0.5 μ m/m		
				Coincidence Levels：（-5～+5）mm/m	U=3 μ m/m		
20	Straight Edges	Linearity	Calibration Specification for Straight Edges JJF 1097	(500～2000）mm	U=0.3 μ m+1×10^{-6}L		
21	Level Rules	AngleGauge	Calibration Specification for Level Rules JJF1085	(0.5～10) mm/m	U_{rel}=4.8%		
22	Electronic Tachometer Total Station	Angle	Verification regulation of total station electronic tachometer JJG100,Verification regulation of photoelectric rangefinder JJG703	0° ～360°	U=0.20″		
		Length		（24～1200）m	U=0.5mm（additive constant）, U=0.8mm/km（multiplying constant）		
23	Global Navigation Satellite System	Length	Verification Regulations for Global Navigation Satellite System (GNSS) Receiver (Geodetic and Navigation) JJG 1200	6m～ 35.2km	U=（0.8～2.3）mm（static state）, U=1.9mm（dynamic）		
24	Levels	Angle	V.R.of Levels JJG 425	-30″ ～+30″	U=1.7″		
25	Optical Theodolite	Angle	V.R.of Optical Theodolites JJG 414	0° ～360°	U=0.4″		
26	Electronic theodolite	Angle	V. R.of Electronic Tachometer Total Station JJG 100	0° ～360°	U=0.3″		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
27	Electro-optical Distance Meter	Length	Verification regulation of photoelectric rangefinder JJG703	（24～1200）m	U=0.5mm（additive constant）， U=0.8mm/km（multiplying constant）		
28	Telescope Rangefinders	Length	Calibration specification for telescopic rangefinder JJF1704	（0～3）km	U=0.1m		
29	*Level Verification System	Angle	Verification regulation of level verification device JJG960	-30″～+30″	U=1.0″		
30	Optical Flat	Flatness	Verification Regulation of Optical Flat JJG 28	Optical FlatD(30～150)mm	U=0.01 μm		
		Parallelism		Optical FlatD(15～100)mm	U=0.28 μm		
31	*Surface Plates	Flatness	Verification Regulation of Surface Plates JJG 117	(160×100)mm ～(450×450)mm	U=0.6 μm		
				(450×450)mm ～(630×400)mm	U=0.8 μm		
				(630×400)mm ～(800×600)mm	U=1.2 μm		
				(800×600)mm ～(1000×800)mm	U=1.5 μm		
				(1000×800)mm～(1500×1000)mm	U=1.7 μm		
				(1500×1000)mm～(3000×2000)mm	U=5.0 μm		
32	Feeler gauge	Length	Verification regulation of feeler gauge JJG62	（0.02～3.00）mm	U=3.0 μm		
33	*Length Measuring Instrument	Length	Calibration Specification for Length Measuring Instrument JJF 1189	(0 ～100)mm	U=0.2 μm +3.2×$10^{-6}L$		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
34	*Contact-type Interferometer	Length	Verification Regulation of Contact-type Interferometers JJG 101	(-5～+5) μm	U=0.012 μm		
35	*Length Measuring Machine	Length	Calibration Specification for Length Measuring Machine JJF 1066	(0～100) μm	U=0.08 μm		
				（0.1～100）mm	$U=0.18\ \mu m+1.2\times10^{-6}L$		
				（100～1000）mm	$U=0.1\ \mu m+2\times10^{-6}L$		
36	*Ultrasonic Thickness Instruments	Length	Calibration specification for ultrasonic thickness gauge JJF1126	（0.5～200）mm	U=0.04mm		
37	*Dissolution Testers	Length	Calibration Specification for Dissolution Testers JJF（Inner Mongolia）068	(0～3)mm	U=0.06mm		
38	Steel ruler	Length	Verification Regulation of Steel Rule JJG 1	（0～1000）mm	$U=0.05mm+2\times10^{-5}L$		
39	Welding Inspection Callipers	Angle	Calibration Specification for Welding Inspection Callipers JJF 2161	10°～170°	U=7.4′		
		Length		Main scale：（0～60）mm	U=4.8 μm		
				Height scale：（0～20）mm	U=11 μm		
				Undercut depth scale：（0～35）mm	U=32 μm		
40	Thickness Gauges	Length	Calibration Specification for Thickness Gauges JJF 1255	（0～1）mm	U=2.0 μm		
				（1～10）mm	U=2.8 μm		
				（10～30）mm	U=4.7 μm		
2、 Thermology							

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
1	Base Metal Thermocouples	Temperature	Calibration Specification for Base Metal Thermocouples JJF 1637	（100～300）℃	U=0.3℃		
				（300～1100）℃	U=1.0℃		
				（1100～1200）℃	U=2.0℃		
2	Industry Platinum Resistance Thermometers	Temperature	Verification Regulation of Industrial Platinum and Copper Resistance Thermometers JJG 229	(-60～95) ℃	U=0.02℃		
				(95～300) ℃	U=0.04℃		
3	Temperature Transmitter	Temperature	Calibration Specification of the Temperature Transmitter JJF 1183	With Sensor:（-60～300）℃	U=0.08℃		
4	*Thermostatic Baths for Temperature Calibration	Temperature	Measurement and Test Norm of Metrological Characteristics of Thermostatic Baths for Temperature Calibration JJF 1030	Fluctuation：(-60～300) ℃	U=0.010℃		
				Uniformity：(-60～300) ℃	U=0.010℃		
5	*Environmental Testing Equipment	Temperature	Calibration Specification of Environmental Testing Equipment for Temperature and Humidity Parameters JJF 1101	（-30～200）℃	U=0.2℃		
		Relative humidity		30%～90%（10℃～60℃）	U=1.5%		
6	*Box-type Resistance Furnace	Temperature	Calibration Specification for Box-type Resistance Furnace JJF 1376	（300～1000）℃	U=1.8℃		
				（1000～1100）℃	U=2.0℃		
7	*Liquid Constant Temperature Testing Equipment	Temperature	Measurement Specification for Temperature Performance of Liquid Constant Temperature Testing Equipment JJF 2019	（10～95）℃	U=0.2℃		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
8	*Steam Sterilizers	Temperature	Calibration Specification for Temperature and Pressure Parameters of Steam Sterilizers JJF（Meng）028	(30～134)℃	U=0.2℃		
		Pressure		Absolute pressure:(10～400)kPa	U=1.5kPa		
9	Heat Meters	Temprature	Verification Regulation of Heat Meters JJG 225	（4～95）℃	U=0.03℃		
		Flow		DN15～DN300：（1.2～600）m^3/h	U_{rel}=0.2%		
		Heat quantity		（0.01～99999999）kWh	U_{rel}=0.9%		
10	Radiation Thermometers	Temperature	Verification Regulation of Radiation Thermometers JJG 856	（30～100）℃	U=2.0℃		
				（100～300）℃	U=2.5℃		
				（300～700）℃	U=3.0℃		
11	Mechanical Thermo-hygrometers	Temperature	Verification Regulation of Mechanical Thermo-hygrometers JJG 205	（5～50）℃	U=0.6℃		
		Relative humidity		30%～95%（10℃～30℃）	U=1.4%		
12	Digital Temperature-hygrometers	Temperature	Calibration Specification for Digital Temperature-hygrometers JJF 1076	（5～50）℃	U=0.4℃		
		Relative humidity		30%～95%（10℃～30℃）	U=1.2%		
13	*Large Steam Sterilizers	Temperature	Calibration Specification for Temperature,Pressure and Time Parameters of Large Steam Sterilizers JJF 2088	(0～150）℃	U=0.2℃		
		Pressure		(0～400)kPa	U=1.2kPa		
		Time		（0.1～3600）s	U=0.1s		
3、 Mechanics							
1	Weights	Mass	Verification Regulation of Weights JJG99	1mg～100mg	U=0.002mg		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				100mg～500mg	U=0.002mg～0.004mg		
				1g～100g	U=0.006mg～0.05mg		
				100g～500g	U=0.05mg～0.17mg		
				1kg～20kg	U=0.9mg～20mg		
				50kg	U=0.3g		
				500kg	U=7g		
				1000kg	U=11g		
2	*Electronic Balances	Mass	Calibration Specification for Electronic Balances JJF1847	（0～1）g	U=0.2mg		
				（1～100）g	U=（0.2～0.3）mg		
				（0.1～5）kg	U=（0.3～11）mg		
				（5～10）kg	U=11mg～0.03g		
				（10～20）kg	U=（0.03～0.16）g		
				（20～100）kg	U=（0.16～2.5）g		
				（100～300）kg	U=（2.5～21）g		
3	*Mass Comparators	Mass	Calibration Specification for Mass Comparators JJF1326	1mg～10g	U=3.5 μ g		
				10g～200g	U=4 μ g～5 μ g		
				200g～500g	U=16 μ g～21 μ g		
				500g～2kg	U=0.2mg～0.3mg		
				2kg～5kg	U=2mg～3mg		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				5kg～150kg	U=0.02g～0.14g		
				150kg～300kg	U=0.2g～0.3g		
4	*Table Balances	Mass	Verification Regulation of Table Balances JJG156	100g～5kg	U=0.02g～2g		
5	*Concrete Batching Scales	Mass	Verification Regulation of Concrete Batching Scales JJG1171	（1～100）kg	U=0.02kg		
				（100～800）kg	U=0.12kg		
				（800～2000）kg	U=1.2kg		
6	*Continuous Totalizing Automatic Weighing Instruments (Belt Weighers)	Mass	Verification Regulation of Continuous Totalizing Automatic Weighing Instruments(Belt Weighers) JJG195	（57.6～100）t/h	U_{rel}=0.28%		
				（100～500）t/h	U_{rel}=0.7%		
				（500～1500）t/h	U_{rel}=1.2%		
7	*Automatic Gravimetric Filling Instruments	Mass	Verification Regulation of Automatic Gravimetric Filling Instruments JJG564	2.5kg～50kg	U_{rel}=0.06%		
				50kg～1t	U_{rel}=0.3%		
				1t～20t	U_{rel}=1.2%		
				20t～70t	U_{rel}=2.9%		
8	*Digital Indicating Weighing Instruments	Mass	Verification Regulation of Digital Indicating Weighing Instruments JJG539	2g～200g	U=（0.014～0.018）g		
				200g～1kg	U=（0.018～0.06）g		
				1kg～10kg	U=（0.06～0.6）g		
				10kg～100kg	U=（0.6～6）g		
				100kg～1t	U=（0.006～0.06）kg		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				1t～3t	U=（0.06～0.23）kg		
				3t～15t	U=（0.23～1.2）kg		
				15t～60t	U=（1.2～5）kg		
				60t～200t	U=（5～21）kg		
9	*Automatic Instruments for Weighing Road Vehicles in Motion	Mass	Verification Regulation of Automatic Instruments for Weighing Road Vehicles in Motion JJG907	Motion（5～31）t	U=（0.21～1.0）×10^2kg		
				Motion（31～49）t	U=（0.1～0.15）×10^3kg		
				Static（1～60）t	U=（4～8）kg		
10	*Portable Automatic Instruments for Weighing Axle Loads of Vehicle in Motion	Mass	Calibration Specification for Portable Automatic Instruments for Weighing Axle Loads of Vehicle in Motion JJF1212	Motion（5～31）t	U=（0.09～0.19）×10^3kg		
				Motion（31～49）t	U=（0.19～0.26）×10^3kg		
11	Standard Glass Hydrometers	Density	Verification Regulation of Standard Glass Hydrometers JJG86	Second class standard densitometer:（650～1500）kg/m^3	U=0.15kg/m^3		
				Second class standard petroleum densimeter:（650～1100）kg/m^3	U=0.15kg/m^3		
		Alcohol degree		Second class standard alcohol meter：（0～100）%	U=0.06%		
12	Working Glass Hydrometers	Density	Verification Regulation of Working Glass Hydrometers JJG42	Precision and common densitometer：（650～1800）kg/m^3，d=0.5kg/m^3	U=0.15kg/m^3		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				Precision and common densitometer：（650～1800）kg/m^3，d=1kg/m^3	U=0.3kg/m^3		
				Petroleum densimeter Milk meter：（650～1100）kg/m^3	U=0.15kg/m^3		
		Baume degrees		（0～70）Bh	U=0.3Bh		
		Soil degree		（3～50）s°	U=0.30s°		
		Milk degree		（15～40）m°	U=0.3m°		
		Alcohol degree		Precision alcohol meter：（0～100）%	U=0.05%		
				Alcohol meter：（0～100）%	U=0.3%		
13	Standard Metal Tank	Capacity	Verification Regulation of Standard Metal Tank JJG 259	2 Class Standard Metal Tank：（1～2500） L	U_{rel}=0.0083%		
				3 Class Standard Metal Tank：（1～5000） L	U_{rel}=0.03%		
14	*Verification Facility for Water Meters	Flow	Verification Regulation of Verification Facility for Water Meters JJG 1113	（0.004～32）m^3/h	U_{rel}=0.03%		
15	Working Glass Container	Capacity	Verification regulation of common glass measuring instruments JJG196	（0.1～0.5）mL	U=0.002mL		
				（0.5～25）mL	U=0.006mL		
				（25～100）mL	U=0.03mL		
				（100～500）mL	U=0.09mL		

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				（500～1000）mL	U=0.18mL		
				（1000～2000）mL	U=0.20mL		
16	Special Glassware	Capacity	Verification regulation of special glass gauge JJG10	（5～10）mL	U=0.01mL		
				（10～50）mL	U=0.09mL		
				（50～100）mL	U=0.20mL		
17	Locomotive Pipette	Capacity	Verification regulation of pipette JJG646	（0.1～10） μL	U=0.01 μL		
				（10～100） μL	U=0.03 μL		
				（100～1000） μL	U=0.07 μL		
				（1000～10000） μL	U=3.5 μL		
18	*Road Tankers Capacity	Capacity	Verification Regulation of Road Tankers Capacity JJG 133	(0.1～50)m^3	U_{rel}=0.03%		
19	*Quantitative Filling Machine For Liquid Material	Capacity	Verification regulation of quantitative filling machine for liquid materials JJG 687	(10～50)mL	U_{rel}=1.2%		
				(50～100)mL	U_{rel}=0.7%		
				(100～500)mL	U_{rel}=0.5%		
				(500～1000)mL	U_{rel}=0.3%		
		Quality		(10～50)g	U_{rel}=1.2%		
				(50～100)g	U_{rel}=0.8%		
				(100～1000)g	U_{rel}=0.4%		

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20	*Standard Bell Porvers of Gas Flow	Flow	Verification Regulation of Standard Bell Porvers of Gas Flow JJG 165	（0.016～30）m^3/h	U_{rel}=0.14%		
21	Liquid Positive Displacement Flowmeter	Flow	Verification Regulation of Liquid Positive Displacement Flowmeter JJG 667	DN15～DN300：（0.5～1500）m^3/h	U_{rel}=0.056%（Static mass method）		
				DN15～DN80：（0.03～100）m^3/h	U_{rel}=0.32%（Master meter method）		
22	Float Meter	Flow	Verification Regulation of Float Meter JJG 257	Liquid，DN15～DN300：（0.5～1500）m^3/h	U_{rel}=0.1%（Static mass method）		
23	Goriolis Mass Flow Meters	flow	Verification Regulation of Goriolis Mass Flow Meters JJG 1038	Liquid，DN15～DN80：（0.03～100）m^3/h	U_{rel}=0.32%（Master meter method）		
				Liquid，DN15～DN300：（0.5～1500）m^3/h	U_{rel}=0.056%（Static mass method）		
24	Turbine Flowmeter	Flow	Verification Regulation of Turbine Flowmeter JJG 1037	Gas，DN10～DN300：（0.4～5000）m^3/h	U_{rel}=0.36%（Nozzle method）		
				Liquid，DN15～DN80：（0.03～100）m^3/h	U_{rel}=0.32%（Master meter method）		
				Liquid，DN15～DN300：（0.5～1500）m^3/h	U_{rel}=0.056%（Static mass method）		
25	*Electromagnetic Flowmeters	Flow	Verification Regulation of Electromagnetic Flowmeters JJG 1033；Online Calibration Specification for Electromagnetic Flowmeters JJF 2216	DN15～DN300：（0.5～1500）m^3/h	U_{rel}=0.056%（Static mass method）		
				DN15～DN80：（0.03～100）m^3/h	U_{rel}=0.32%（Master meter method）		
				DN50～DN1200：（5～10058）m^3/h	U_{rel}=0.85%（Online method）		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
26	Gas Displacement Meters	Flow	Verification Regulation of Gas Displacement Meters JJG 633	DN10～DN300：(0.4～5000)m^3/h	U_{rel}=0.36%		
27	Vortex-shedding Flowmeter	Flow	Verification Regulation of Vortex-shedding Flowmeter JJG 1029	Gas，DN10～DN300：(0.4～5000)m^3/h	U_{rel}=0.36%（Nozzle method）		
				Liquid，DN15～DN80：（0.03～100）m3/h	U_{rel}=0.32%（Master meter method）		
				Liquid，DN15～DN300：（0.5～1500）m^3/h	U_{rel}=0.07%（Static mass method）		
28	*Ultrasonic Flowmeters	flow	Verification Regulation of Ultrasonic Flowmeters JJG 1030；Online Calibration Specification for Electromagnetic Flowmeters JJF 2216	Liquid，DN15～DN80：（0.03～100）m^3/h	U_{rel}=0.32%（Master meter method）		
				Liquid，DN15～DN300：(0.5～1500)m^3/h	U_{rel}=0.056%（Static mass method）		
				Gas，DN10～DN300：（0.4～5000）m^3/h	U_{rel}=0.36%（Nozzle method）		
				Liquid，DN50～DN1200：（5～10058）m^3/h	U_{rel}=0.85%（Online method）		
29	Cold Potable Water Meters	Flow	Verification Rregulation of Cold Potable Water Meters JJG 162	（0.5～1500）m^3/h	U_{rel}=0.1%		
30	Master Meter Method Verification Facility of Compressed Natural Gas Dispenser	Flow	Calibration Specification for Master Meter Method Verification Facility of Compressed Natural Gas Dispenser JJF 1583	（1～80）kg/min	U_{rel}=0.3%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
31	Flow Integration Meters	Flow	Verification Rgulation of Flow Integration Meters JJG 1003	（0.5～20000）m^3/h	U_{rel}=0.05%		
32	*Weirs and Flumes for Flow Measurement	flow	Weirs and Flumes for Flow Measurement JJG 711	water elevation：（0.015～1.5）m	U=1.0mm		
				flow：（0.324～9000）m^3/h	U_{rel}=4%		
33	*Vertical Metal Tank Capacity	capaciry	Vertical Metal Tank Capacity JJG 168	（20～100）m^3（inclusive of 100m^3)	U_{rel}=0.3%		
				（100～700）m^3（inclusive of 700m^3)	U_{rel}=0.2%		
				（700～100000）m^3	U_{rel}=0.1%		
34	*Horizontal Metal Tank Capacity	capacity	Horizontal Metal Tank Capacity JJG 266	(10～100)m^3	U_{rel}=0.25%（k=2）（more than 75% of the total capacity）		
35	Liquid-medium Piston Gauges	Pressure	Verification regulation of Liquid-medium Piston Gauges JJG 59	(0.04～60)MPa	U_{rel}=0.0028%		
36	Piston Pressure Vacuum Gauge	Pressure	Verification regulation of piston pressure vacuum gauge JJG 236	(0.1～-0.01)MPa	U_{rel}=0.0054%		
				(0.01～0.25）MPa	U_{rel}=0.0054%		
37	Elastic Element Precise Pressure Gauges and Vacuum Gauges	pressure	Verification Regulation of Elastic Element Precise Pressure Gauges and Vacuum Gauges JJG 49	(-0.1～100)MPa	U=0.07%FS		

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38	*Elastic Element Pressure Gauges，Pressur-Vacuum Gauges andVacuum Gauges for General Use	pressure	Verification Regulation of Elastic Element Pressure Gauges,Pressure-Vacuum Gauges and Vacuum Gauges for General Use JJG 52	(-0.1～100)MPa	U=0.5%FS		
39	Digital Pressure Gauges	Pressure	Verification regulation of digital pressure gauge JJG 875	(-0.1～60)MPa	U=0.024%FS		
				(60～100)MPa	U=0.06%FS		
40	Aneroid Barometer & Aneroid Barograph	air pressure	Verification Regulation of Aneroid Barometer & Aneroid Barograph JJG 272	(800～1060)hPa	U=0.6hPa		
		Temperature Coefficient		(-0.14～0.25)hPa/℃	U=0.03hPa/℃		
41	Digital Barometers	air pressure	Verification Regulation of Digital Barometers JJG 1084	(800～1060)hPa	U=0.14hPa		
42	*Pressure Transmitters	Pressure	Verification regulation of pressure transmitter JJG882	(0～100)MPa	U=0.06%FS		
43	Compensated Micro-manomerer	pressure	Verification regulation of compensated micro manometer JJG158	(-2.5～2.5)kPa	U=0.58Pa		
44	Tilting Tube Micromanometers	pressure	Verification Regulation of Tilting Micromanometer JJG172	(-2.0～2.0)kPa	U=4.8Pa		
45	Standard Dynamometers	Force	Verification Regulation of Standard Dynamometers JJG144	(0.1～10)kN	U_{rel}=0.06%		
				(10～60)kN	U_{rel}=0.09%		
				(60～2000)kN	U_{rel}=0.13%		
46	Working Dynamometers	Force	Verification Regulation of Working Dynamometer JJG455	(20～100)N	U_{rel}=0.29%		

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				(0.1～2000)kN	U_{rel}=0.20%		
47	*Flexure Testing Machines	Force	Verification Regulation of Flexure Testing Machines JJG 476	5N～50kN	U_{rel}=0.16%		
		Speed		(45～55)N/s	U=0.17N/s		
48	Hydraulic Jacks	Force	Verification Regulation of Hydraulic Jacks JJG 621	100N～5MN	U_{rel}=0.41%		
49	*Tension，Compression and Universal Testing Machines	Force	Verification Regulation of Tension，Compression and Universal Testing Machines JJG 139	1N～100N	U_{rel}=0.35%		
				100N～3000kN	U_{rel}=0.16%		
				3MN～5MN	U_{rel}=0.35%		
50	*Electro-hydraulic Servo Universal Testing Machines	Force	Verification Regulation of Electro-hydraulic Servo Universal Testing Machines JJG 1063	100N～2000kN	U_{rel}=0.16%		
		Coaxiality		(0.1～20)%	U=3%		
51	*Electronic Universal Testing Machine	Force	Verification Regulation of Electronic Universal Testing Machine JJG 475	1N～100N	U_{rel}=0.35%		
				100N～1000kN	U_{rel}=0.16%		
		Coaxiality		(0.1～20)%	U=3%		
52	*Interface Tensionmeters	Tension	Calibration Specification for Interface Tensionmeters JJF1464	(1～200)mN/m	U_{rel}=0.6%		
53	*Pendulum Impact Testing Machines	Impact energy	Verification Regulation of Pendulum Impact Testing Machines JJG145	Indirect method:(10～30)J	U=1.0J		
				Indirect method:(80～100)J	U=2.3J		
				Indirect method:(120～140)J	U=2.2J		

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				Indirect method:(220～240)J	U=4.4J		
				Direct method:(0.1～300)J	U_{rel}=0.4%		
54	Torque Wrenches	Torque	Verification Regulation of Torque Wrenches JJG707	(0.6～3000)Nm	U_{rel}=0.4%		
55	Hydraulic Torque Bench	Torque	Verification Regulation of Hydraulic Torque Bench JJG(Xin)16	(700～20000)Nm	U_{rel}=1.2%		
56	Working Torque- meters	Torque	Verification Regulation of Working Torque-meters JJG1146	(700～20000)Nm	U_{rel}=1.2%		
57	*Metallic Brinell Hardness Testers	Hardness	Verification Regulation of Metallic Brinell Hardness Testers JJG150	(100～350)HBW	U_{rel}=(0.8～1.1)%		
58	*Metallic Rockwell Hardness Testing Machines (Scales A,B,C,D,E,F,G,H,K,N,T)	Hardness	Verification Regulation of Metallic Rockwell Hardness Testing Machines (Scales A,B,C,D,E,F,G,H,K,N,T) JJG112	(20～88) HRA	U=0.6HR	Accredited only for A、B、C scales.	
				(20～100) HRB	U=0.8HR		
				(20～30) HRC	U=0.9HR		
				(35～55) HRC	U=0.7HR		
				(60～70) HRC	U=0.6HR		
59	*Equotip Hardness tester	Hardness	Verification Regulation of Equotip Hardness Tester JJG747	(490～830)HLD	U_{rel}=(1.4～1.9)%		
60	*Metallic Vickers Hardness Testers	Hardness	Verification Regulation of Metallic Vickers Hardness Testers JJG151	(400～600)HV	U_{rel}=(1.7～2.5)%		
61	Vibration Displacement	Displacement	Verification Regulation of Vibration Displacement	Dynamic:(0.01～2)mm，80Hz	U_{rel}=1.0%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
	Transducer		Transducer JJG644	Dynamic:(0.01～2)mm，(20～500)Hz	U_{rel}=2.0%		
				Static:(0.01～50)mm	U_{rel}=0.6%		
62	Electromagnetic Velocity Transducer	Speed	Verification Regulation of Electromagnetic Velocity Transducer JJG134	(0.1～200)m/s，160Hz	U_{rel}=1.0%		
				(0.1～200)m/s，(20～2000)Hz	U_{rel}=2.0%		
63	Piezoelectric Accelerometer	Acceleration	Verification Regulation of Piezoelectric Accelerometer JJG233	(1～100)m/s^2，160Hz	U_{rel}=1.0%		
				(1～100)m/s^2，(20～2000)Hz	U_{rel}=2.0%		
64	*Hydraulic Vibration Testing System	Frequency	Verification Regulation of Hydraulic Vibration Testing System JJG 638	(20～2000)Hz	U=0.2 Hz		
		Acceleration		(1～100)m/s^2	U_{rel}=3.5%		
		Distortion Degree		(0.01～100)%	U=2.0%		
65	*Mechanical Vibration Generator for Testing	Frequency	Verification Regulation of Mechanical Vibration Generator for Testing JJG 189	(20～1000)Hz	U=0.2 Hz		
		Acceleration		(1～100)m/s^2	U_{rel}=3.5%		
		Distortion Degree		(0.01～100)%	U=2.0%		
66	*Electrodynamic Horizontal Vibration Generator for Testing	Frequency	Verification Regulation of Electrodynamic Horizontal Vibration Generator for Testing JJG 1000	(20～4000)Hz	U=0.2 Hz		
		Acceleration		(1～100)m/s^2	U_{rel}=3.5%		
		Distortion Degree		(0.01～100)%	U=2.0%		
67	*Electrodynamic Vibration Testing Systems	Frequency	Verification regulation of electric vibration test system JJG 948	(20～4000)Hz	U_{rel}=0.2 Hz		
		Acceleration		(1～100)m/s^2	U_{rel}=3.5%		

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		Distortion Degree		(0.01～100)%	U=2.0%		
68	Vibration Meters	Acceleration	Verification Regulation of Vibration Meters JJG 676	(0.1～100)m/s^2，160Hz	U_{rel}=1.0%		
				(1～100)m/s^2，(20～2000)Hz	U_{rel}=2.0%		
		Speed		(0.1～100)m/s，160Hz	U_{rel}=1.0%		
				(0.1～100)m/s，(20～2000)Hz	U_{rel}=2.0%		
		Displacement		(0.01～5)mm，160Hz	U_{rel}=1.0%		
				(0.01～5)mm，(20～2000)Hz	U_{rel}=2.0%		
		Frequency		(20～2000)Hz	U=0.2 Hz		
69	Pile Dynamic Measuring Instruments	Frequency	Verification Regulation of Pile Dynamic Measuring Instruments JJG930	(20～2000) Hz	U_{rel}=0.3%	ExCept for impact method and pile dynamic measuring	
		Acceleration		(5～100)m/s^2	U_{rel}=2.0%		
70	Tachometers	Revolution	Verification Regulation of Tachometers JJG105	(30～30000)r/min	U_{rel}=0.01%		
71	*Taximeters	Distance	Verification regulation of Taximeter JJG517	Used distance:(0.1～5)km	U_{rel}=0.32%		
				Taximeters:(1～4)km	U_{rel}=0.16%		
		Time		(300 ～900)s	U_{rel}=0.1%		
72	Standard Equipment for Taximeter	Revolution	Verification Regulation of Standard Equipment for Taximeter JJG738	(500～4000)r/min	U_{rel}=0.42%		
		Speed		(30～360)km/h	U=0.7km/h		
73	*Fixed Radar	frequency	Verification regulation of	(10～40)GHz	U=2MHz		

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	Vehicle Speed Measurement Devices	Speed	Fixed Radar Vehicle Speed Measurement Devices JJG 527	Simulated speed:(20～180)km/h	U=1km/h		
				Field speed:(20～100)km/h	U=1km/h		
74	*Mobile Radar Vehicle Speed Measurement Devices	frequency	Verification regulation of mobile motor vehicle radar velocimeter JJG 528	(10～40)GHz	U=2MHz		
		Speed		Simulated speed:(20～180)km/h	U=1km/h		
				Field speed:(20～100)km/h	U=1km/h		
75	*Laboratory Centrifuge	Rotating Speed	Calibration Specification for Laboratory Centrifuge JJF(Meng)039	(500～30000)r/min	U_{rel}=0.7%		
76	*Elevator Overspeed Governor Testers	Speed	Calibration Specification for Elevator Overspeed Governor Testers JJF1374	(1.000～5.000)m/s	U_{rel}=0.4%		
77	*Chassis Dynamometers of Automobile Emissions Testing	Speed	Calibration Specification for Chassis Dynamometers of Automobile Emissions Testing JJF1221	（1～100）km/h	U_{rel}=0.11%		
		Torsion		（200～10000）N	U_{rel}=0.34%		
		Time		（0.1～150）s	U_{rel}=1.46%		
78	*Equipment of Power Measuring	Torsion	Verification Regulation of Equipment of Power Measuring JJG 653	（200～10000）N	U_{rel}=0.5%		
		speed		（1～120）km/h	U_{rel}=0.3%		
4、 Acoustics							
1	Sound Level Meters	Sound Pressure Level	Verification regulation of Sound Level Meters JJG 188	Sound signal:(10～94)dB,(10～250)Hz	U=0.5dB		
				Sound signal:(10～94)dB,(315～3150)Hz	U=0.5dB		

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				Sound signal:(10～94)dB,(4000～8000)Hz	U=0.6dB		
				Sound signal:(10～94)dB,(10～20)kHz	U=0.7dB		
				Electrical Signal:(1～140)dB,(1～8)kHz	U=0.2dB		
				Burst Signal:(1～140)dB，(0.25～1000)ms	U=0.2dB		
		Time weighting		F:(1～50)dB/s，4kHz	U=3.0dB/s		
				S:1～50)dB/s，4kHz	U=0.3dB/s		
2	Noise Level Statistical Analyzers	Sound Pressure Level	Verification regulation of Noise Level Statistical Analyzers JJG 778	Sound signal:(10～94)dB，(10～250)Hz	U=0.5dB		
				Sound signal:(10～94)dB，(315～3150)Hz	U=0.5dB		
				Sound signal:(10～94)dB，(4000～8000)Hz	U=0.6dB		
				Sound signal:(10～94)dB，(10～20)kHz	U=0.7dB		
				Electrical Signal:(1～140)dB，(1～8)kHz	U=0.2dB		
				Burst Signal:(1～140)dB，(0.25～1000)ms	U=0.2dB		
		Time weighting		F:(1～50)dB/s，4kHz	U=3.0dB/s		
				S:(1～50)dB/s，4kHz	U=0.3dB/s		

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3	*Ultrasonic Source for Medical Ultrasonic Diagnostic Equipment	Ultrasonic Power	Verification regulation of Ultrasonic Source for Medical Ultrasonic Diagnostic Equipment JJG 639	(1～100)mW	U_{rel}=20%		
4	*Ultrasound Bone Sonometers	Speed of Sound	Calibration specification for ultrasoound bone Sonometers JJF 1649	Calcaneus:(1400～1700)m/s	U=28m/s		
				Radius:(2500～3000)m/s	U=28m/s		
5、 Electromagnetism							
1	*Amperemeters,Voltmeters,Wattmeters and Ohmmeters	DC Voltage	Verification Regulation of Amperemeters,Voltmeters,Wattmeters and Ohmmeters JJG 124	10mV～1000V	U_{rel}=0.1%		
		AC Voltage		(0.1～1000)V，(50Hz、60Hz、400Hz)	U_{rel}=0.1%		
		DC Current		1mA～20A	U_{rel}=0.1%		
		AC Current		2mA～20A，(50Hz、60Hz、400Hz)	U_{rel}=0.11%		
		DC Power		10W～7kW	U_{rel}=0.2%		
		AC Power		10W～10kW，(50Hz)	U_{rel}=0.2%		
		DC Resistance		1Ω～1MΩ	U_{rel}=0.3%		
2	D.C. Potentiometers	DC Voltage	Verification Regulation of D.C. Potentiometers JJG 123	(0.1～0.2111111)V	$U=2.4\times10^{-5}U_x+0.024\ \mu V$		
				(0.2111111～2.1111110)V	$U=1.2\times10^{-5}U_x+0.12\ \mu V$		
3	*Transformers Turn Ratio Test Sets	Ratio	Verification Regulation of Transformers Turn Ratio Test Sets JJG 970	1～1000	U_{rel}=0.014%		

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4	Instrument Voltage Transformers	Ratio	Verification Regulation of Instrument Voltage Transformers JJG 314	(2～10)kV/100V，20%U_n	U=0.020%		
				(2～10)kV/100V，(50%～120%)U_n	U=0.012%		
		Phase		±(0.001′～100′)，(2～10)kV/100V，20%U_n	U=0.8′		
				±(0.001′～100′)，(2～10)kV/100V，(50%～120%)U_n	U=0.4′		
5	*Withstanding Voltage Testers	DC Voltage	Verification Regulation of Withstanding Voltage Testers JJG 795	(0.5～15)kV	U_{rel}=0.6%		
		AC Voltage		(0.5～15)kV，(50Hz)	U_{rel}=0.6%		
		DC Current		(0.4～200)mA	U_{rel}=0.8%		
		AC Current		(0.4～200)mA，(50Hz)	U_{rel}=0.8%		
		Time		10s～99s	U_{rel}=0.8%		
6	*AC High Voltage Test Device	AC Voltage	Calibration Specification for AC High Voltage Test Device JJF(Zhe) 1144	(10～100)kV，(50Hz)	U_{rel}=1.4%		
		Frequency		(45～65)Hz	U_{rel}=0.13%		
		Distortion		0.1%～5%，(50Hz)	U_{rel}=3%		
7	Instrument Current Transformers	Ratio	Verification Regulation of Instrument Current Transformers JJG 313	(5～2000)A/5A，5%I_n	U=0.024%		
				(5～2000)A/5A，(20%～120%)I_n	U=0.012%		
		Phase		(0.01′～999.9′)，(5～2000)A/5A，5%I_n	U=0.70′		

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				(0.01′ ～999.9′)，(5～2000)A/5A，(20%～120%)I_n	U=0.34′		
8	*High Current Generator	AC Current	Calibration Specification of High Current Generator JJF(JX) 1037	(5～2000)A，(50Hz)	U_{rel}=0.1%		
9	DC Standard Resistors	DC Resistance	Verification Regulation of DC Standard Resistors JJG 166	1mΩ、10mΩ、100kΩ	$U_{rel}=5\times10^{-6}$		
				1Ω	$U_{rel}=1.8\times10^{-6}$		
				0.1Ω、10Ω、100Ω、1kΩ、10kΩ	$U_{rel}=3\times10^{-6}$		
10	*High Voltage and Value D.C.Resistors	DC Resistance	Verification Regulation of High Voltage and Value D.C.Resistors JJG 1072	100Ω～100MΩ	U_{rel}=0.12%		
				100MΩ～10GΩ	U_{rel}=0.29%		
				10GΩ～100GΩ	U_{rel}=0.64%		
				100GΩ～1TΩ	U_{rel}=1.2%		
11	*DC Resistive Volt Ratio Box	Voltage Division Ratio	Verification Regulation of DC Resistive Volt Ratio Box JJG 531	10～500，(100mV～1000V)	$U_{rel}=3\times10^{-5}$		
12	D.C. Resistance Boxes	DC Resistance	Verification Regulation of D.C. Resistance Boxes JJG 982	1Ω～100kΩ	U_{rel}=0.002%		
				10mΩ～1Ω	U_{rel}=0.03%		
				1mΩ～10mΩ	U_{rel}=1%		
13	D.C. Bridges	DC Resistance	Verification Regulation of D.C. Bridges JJG 125	1Ω～100kΩ	U_{rel}=0.002%		
				10mΩ～1Ω	U_{rel}=0.03%		
				1mΩ～10mΩ	U_{rel}=1%		

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14	*Megohmmeter	DC Resistance	Verification regulation of insulation resistance meter (megger) JJG 622	100 Ω ～10M Ω	U_{rel}=0.24%		
				10M Ω ～100M Ω	U_{rel}=0.58%		
				100M Ω ～1G Ω	U_{rel}=1.2%		
				1G Ω～1T Ω	U_{rel}=2.4%		
		DC Voltage		(100～5000)V	U_{rel}=1.7%		
15	*Electronic Insulation Resistance Meters	DC Resistance	Verification Regulation of Electronic Insulation Resistance Meters JJG 1005	100 Ω ～10M Ω	U_{rel}=0.24%		
				10M Ω ～100M Ω	U_{rel}=0.58%		
				100M Ω ～1G Ω	U_{rel}=1.2%		
				1G Ω ～1T Ω	U_{rel}=2.4%		
		DC Voltage		100V～10kV	U_{rel}=1.7%		
16	*Earth Resistance Tester	Resistance	Verification Regulation of Earth Resistance Meters JJG 366	0.010 Ω ～0.1 Ω	U_{rel}=12%		
				0.10 Ω ～1 Ω	U_{rel}=1.4%		
				1 Ω ～2011.110 Ω	U_{rel}=0.12%		
17	Reference Meters for Electrical Energy	AC Electrical Energy	Verification Regulation of Reference Meters for Electrical Energy JJG 1085	Three-phase balance loads：3×(57.7～380)V，3×(0.1～100)A，50Hz，cos ϕ =1.0、0.5L、0.8C	U_{rel}=0.024%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				Three-phase balance loads：3×(57.7～380)V，3×(0.1～100)A，50Hz，cos ϕ =0.5C	U_{rel}=0.035%		
				Three-phase unbalance loads：3×(57.7～380)V，3×(0.1～100)A，50Hz，cos ϕ =1.0、0.5L、0.8C	U_{rel}=0.024%		
				Three-phase unbalance loads：3×(57.7～380)V，3×(0.1～100)A，50Hz，cos ϕ =0.5C	U_{rel}=0.035%		
18	*Verification Equipment for AC Electrical Energy Meters	AC Electrical Energy	Verification Regulation of Verification Equipment for AC Electrical Energy Meters JJG 597	Three-phase balance loads：3×(57.7～380)V，3×(0.1～100)A，50Hz，cos ϕ =1.0、0.5L、0.8C	U_{rel}=0.024%		
				Three-phase balance loads：3×(57.7～380)V，3×(0.1～100)A，50Hz，cos ϕ =0.5C	U_{rel}=0.035%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				Three-phase unbalance loads：3×(57.7～380)V，3×(0.1～100)A，50Hz，cos ϕ =1.0、0.5L、0.8C	U_{rel}=0.024%		
				Three-phase unbalance loads：3×(57.7～380)V，3×(0.1～100)A，50Hz，cos ϕ =0.5C	U_{rel}=0.035%		
		AC Voltage		(57.7～380)V,50Hz	U_{rel}=0.12%		
		AC Current		(0.1～100)A,50Hz	U_{rel}=0.12%		
		AC Power		(5.777～38000)W,50Hz	U_{rel}=0.15%		
		Phase Angle		0° ～360° ,50Hz	U=0.18°		
19	*Zinc-oxide Rrrester Testers	Voltage	Calibration Secification for Zinc-oxide Arrester Testers JJF 2194	(10～250)V,50Hz	U_{rel}=0.5%		
		Current		(1～20)mA,50Hz	U_{rel}=0.5%		
		Phase Angle		0° ～180° ,50Hz	U=0.9°		
20	Process Calibrators	DC voltage (measurement)	Calibration specification for process instrument calibrators JJF1472	10mV～300V	U_{rel}=4.6×10^{-5}		
		DC current (measurement)		±（1～100）mA	U_{rel}=1.5×10^{-4}		
		Resistance (measurement)		(10～10000) Ω	U_{rel}=2.9×10^{-4}		

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		Frequency (measurement)		1Hz～100kHz	$U_{rel}=2\times10^{-4}$		
		Temperature(Thermal resistance measurement)		(-200～800) ℃	U=0.058℃		
		Temperature(Thermocouple measurement)		(100～1000) ℃	U=0.41 ℃		
				(1000～1700) ℃	U=0.29 ℃		
		AC voltage (measurement)		100mV～300V,（50Hz～1kHz）	$U_{rel}=1.1\times10^{-4}$		
		AC current (measurement)		(10～200)mA,（50Hz～1kHz）	$U_{rel}=2.4\times10^{-4}$		
		DC voltage (output)		10mV～300V	$U_{rel}=5.2\times10^{-5}$		
		DC Current (Output)		(1～100)mA	$U_{rel}=1.2\times10^{-4}$		
		Resistance (Output)		(10～10000) Ω	$U_{rel}=1.3\times10^{-4}$		
		Frequency (output)		1Hz～100kHz	$U_{rel}=2\times10^{-4}$		
		Temperature(Thermal resistance output)		(-200～800) ℃	U=0.058℃		
		Temperature(Thermocouple output)		(100～1000) ℃	U=0.41℃		
				(1000～1700) ℃	U=0.29 ℃		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
21	Multifunction Standard Source	DC voltage	Calibration Specification for Multifunction Standard Sources JJF1638	（0.1～1）V	U=1.6×10^{-5}R_d+0.7μV		
				（1～10）V	U=1.3×10^{-5}R_d+5μV		
				（10～100）V	U=1.7×10^{-5}R_d+70μV		
				（100～1000）V	U=1.6×10^{-5}R_d+0.4mV		
		DC current		10mA～19A	U_{rel}=0.04%		
		AC voltage		（0.1～1）V, (40Hz～10kHz)	U=1.8×10^{-4}R_d+90μV		
				（1～10）V, (40Hz～10kHz)	U=2.6×10^{-4}R_d+0.9mV		
				（10～100）V，(40Hz～10kHz)	U=3.2×10^{-4}R_d+9mV		
				（100～1000）V，(40Hz～10kHz)	U=4×10^{-4}R_d+0.09V		
		AC current		100μA～19A，（40Hz～10kHz）	U_{rel}=0.1%		
		Resistance		（1～2）Ω	U=2.2×10^{-5}R_d+5μΩ		
				（2～20）Ω	U=1.2×10^{-5}R_d+18μΩ		
				（20～200）Ω	U=1.0×10^{-5}R_d+60μΩ		
				200Ω～2kΩ	U=1.0×10^{-5}R_d+0.6mΩ		
				2kΩ～20kΩ	U=1.0×10^{-5}R_d+6mΩ		
				20kΩ～200kΩ	U=1.0×10^{-5}R_d+60mΩ		
				200kΩ～2MΩ	U=1.2×10^{-5}R_d+1.2Ω		

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				2MΩ～20MΩ	$U=2.5\times10^{-5}R_d+0.12k\Omega$		
				20MΩ～200MΩ	$U=1.5\times10^{-4}R_d+12k\Omega$		
				200MΩ～1GΩ	$U=1.9\times10^{-3}R_d+1.2M\Omega$		
22	Digital multimeter	DC voltage	Calibration Specification for Multimeters JJF1587	100mV～220mV	$U=1.0\times10^{-5}R_d+0.7\mu V$		
				220mV～2.2V	$U=9\times10^{-6}R_d+1.2\mu V$		
				2.2V～11V	$U=9\times10^{-6}R_d+80\mu V$		
				11V～22V	$U=9\times10^{-6}R_d+80\mu V$		
				22V～220V	$U=1.0\times10^{-5}R_d+0.10mV$		
				220V～1000V	$U=1.1\times10^{-5}R_d+0.6mV$		
		DC current		100μA～220μA	$U=6\times10^{-5}R_d+10nA$		
				220μA ～2.2mA	$U=6\times10^{-5}R_d+10nA$		
				2.2mA～22mA	$U=6\times10^{-5}R_d+0.10\mu A$		
				22mA～220mA	$U=7\times10^{-5}R_d+1.0\mu A$		
				220mA～2.2A	$U=1.0\times10^{-4}R_d+30\mu A$		
				2.2A～10A	$U=5\times10^{-4}R_d+0.6mA$		
		AC voltage		(0.5～2.2)V,（40Hz～20kHz）	$U=9\times10^{-5}R_d+7\mu V$		
				(2.2～22)V,（40Hz～20kHz）	$U=9\times10^{-5}R_d+70\mu V$		
				(22～220)V,（40Hz～20kHz）	$U=1.0\times10^{-4}R_d+1.0mV$		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				(220～1000)V，（40Hz～1kHz）	U=1.0×10^{-4}R_d+5mV		
		AC current		(10～22)mA，（40Hz～1kHz）	U=2.0×10^{-4}R_d+0.5μA		
				(22～220)mA，（40Hz～1kHz）	U=2.0×10^{-4}R_d+5μA		
				220mA～2.2A，（40Hz～1kHz）	U=8×10^{-4}R_d+50μA		
				2.2A～10A，（40Hz～1kHz）	U=6×10^{-4}R_d+0.2mA		
		DC ohmmeter		10 Ω	U_{rel}=4×10^{-5}		
				19 Ω	U_{rel}=4×10^{-5}		
				100 Ω	U_{rel}=2.0×10^{-5}		
				190 Ω	U_{rel}=2.0×10^{-5}		
				1k Ω	U_{rel}=1.6×10^{-5}		
				1.9k Ω	U_{rel}=1.6×10^{-5}		
				10k Ω	U_{rel}=1.4×10^{-5}		
				19k Ω	U_{rel}=1.4×10^{-5}		
				100k Ω	U_{rel}=1.7×10^{-5}		
				190k Ω	U_{rel}=1.7×10^{-5}		
				1M Ω	U_{rel}=2.4×10^{-5}		
				1.9M Ω	U_{rel}=2.5×10^{-5}		

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				10MΩ	$U_{rel}=4.7\times10^{-5}$		
				19MΩ	$U_{rel}=5.5\times10^{-5}$		
				100MΩ	$U_{rel}=1.3\times10^{-4}$		
23	*Burden Box of Instrument Transformers	Impedance	Calibration Specification for Burden Box of Instrument Transformers JJF 1264	(0.06～10)Ω	$U_{rel}=0.24\%$		
		Admittance		(0.075～12)mS	$U_{rel}=0.24\%$		
24	*Transformer Characteristic Testers	Voltage	Calibration Specification for Transformer Characteristic Testers T/JJF（HUABEI）5006	(0.1～1000)V,50Hz	$U_{rel}=0.3\%$		
		Current		(0.1～20)A,50Hz	$U_{rel}=0.3\%$		
		Ratio		1～400	$U_{rel}=0.16\%$		
		Secondary load (impedance)		(0.1～1.0)Ω	$U_{rel}=0.24\%$		
		Secondary load (admittance)		(0.1～1.0)mS	$U_{rel}=0.24\%$		
		Secondary winding resistance		(0.1～100)Ω	$U_{rel}=2\%$		
25	*Instrument Transformers Test Set	Ratio Error	Verification regulation of transformer calibrator JJG 169	-10%～-0.02%,0.02%～10%	$U_{rel}=0.24\%$		
		Phase difference		-50'～-0.5',0.5'～50'	$U_{rel}=0.24\%$		
6、 Radio							
1	*Dielectric loss and volume resistivity tester of insulating oil	Dielectric Loss	Calibration Specification for Insulating Oil Dielectric Dissipation Factor and Volume Resistivity Testers	(0.01～9.996)%	U=0.6%R_d+0.01%		

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		Volume resistivity	JJF 1618	(1.13×10⁶～1.13×10¹²) Ω·m	U_{rel}=0.5%		
		Capacity		100pF	U_{rel}=0.6%		
		AC Voltage		(0.1～2)kV，50Hz	U_{rel}=0.6%		
		Temperature		(50～100)°C	U=0.1°C		
2	*High Voltage Dielectric Loss Tester	Dielectric Loss Factor	Verification regulation of high voltage dielectric loss factor tester JJG 1126	(0.01～9.996)%	U=0.6%R_d+0.01%		
		Capacity		100pF	U_{rel}=0.5%		
7、 Time frequency							
1	*Clock Testers	Frequency measurement	C. S. for Clock Testers JJF 1662	1Hz～10MHz	U_{rel}=1.2×10⁻⁶		
		Frequency output		100kHz、50kHz、10kHz、1kHz	U_{rel}=1.2×10⁻⁶		
		Time interval（Daily difference）		-10s～10s	U=0.02s		
		Moment		0h0min0s～23h59min59s	U=3.2s		
2	Mechanical stopwatch	Time	Verification regulation of stopwatch JJF2195	MECHANICAL STOPWATCH:0.1s～15min，（Resolution 0.1s）	U=0.10s		
				Mechanical Stopwatch:0.2s～30min（Resolution 0.2s）	U=0.2s		
				Electronic Stopwatch:（1～3600）s			

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				Electronic Stopwatch:86400s	U=0.06s		
8、 Optics							
1	*Water Colorimeters	Chroma	Calibration Specification for Water Colorimeters JJF 1689	Digital display instrument:(0～100)PCU	U=1.7PCU		
				Digital display instrument:(100～500)PCU	U=4.4PCU		
				Visual instrument:(0～5)PCU	U=4PCU		
				Visual instrument:(5～70)PCU	U=7PCU		
2	*Trial Case Lenses	Vertex power	Verification regulation of optometry lens box JJG579	（-20～+20）m^{-1}	U=0.03m^{-1}		
				（-6.00～+6.00）m^{-1}	U=0.06m^{-1}		
				（0.00～5.00）cm/m	U=0.10cm/m		
				（5.00～10.00）cm/m	U=0.10cm/m		
3	*Focimeters	Vertex power	Verification regulation of Focimeters JJG580	（-25～+25）m^{-1}	U=0.04m^{-1}		
				-6.00～+6.00）m^{-1}	U=0.04m^{-1}		
				（2.00～20.00）cm/m	U=0.10cm/m		
4	*Eye Refractometers	Vertex power	Verification regulation of optometer JJG892	（-20～+20）m^{-1}	U=016m^{-1}		
				-3m^{-1}	U=0.30m^{-1}		
				（55～75）m	U=1.2mm		
		Corneal axial position		（5.5～10.0）mm	U=0.015mm		

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9、 Chemistry							
1	*Ultraviolet,Visible Spectrophotometers	Wavelength	Verification Regulation of Ultraviolet,Visible,Near-Infrared Spectrophotometers JJG 178	(190～900)nm	U=0.4nm		
		Transmissivity		5%～35%	U=0.4%		
2	*Fourier Transform Infrared Spectrometers	Wave Number	Calibration Specification for Fourier Transform Infrared Spectrometers JJF 1319	(4000～400)cm^{-1}	U=0.53cm^{-1}		
3	*Atomic absorption spectrophotometer	Detection limit	Verification Regulation of Atomic Absorption Spectrophotometers JJG 694	Determination by flame atomization（Cu）:≤ 0.020 μ g/mL	U=0.005 μ g/mL		
				Graphite furnace atomization method（Cd）:≤4.0pg	U=0.4pg		
		Concentration		Determination by flame atomization Cu:(0.50～5.00) μ g/mL	U_{rel}=5.4%		
				Graphite furnace atomization method Cd:(0.50～5.00)ng/mL	U_{rel}=7.8%		
4	*Fluorescence Spectrophotometer	Detection limit	Verification Regulation of Fluorescence Spectrophotometer JJG 537	Type A：≤5×10^{-10}g/mL	U_{rel}=45%		
5	*Atomic Fluorescence Spectrophotometers	Detection limit	Verification Regulation of Atomic Fluorescence Spectrophotometers JJG 939	As:≤0.4ng	U_{rel}=48%		
				Sb:≤0.4ng	U_{rel}=48%		
6	*ICP spectrometer	wave length	Verification Regulation of Emission Spectrometer JJG 768	(190～770)nm	U=0.01nm		
		Detection limit		Zn:≤0.003mg/L	U_{rel}=48%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				Ni:≤0.01mg/L	U_{rel}=48%		
				Mn:≤0.002mg/L	U_{rel}=48%		
				Cr:≤0.007mg/L	U_{rel}=48%		
				Cu:≤0.007mg/L	U_{rel}=48%		
				Ba:≤0.001mg/L	U_{rel}=48%		
7	*Flame Photometer	Concentration	Verification Regulation of Flame Photometer JJG 630	K：(0～0.200)mmol/L	U=0.0004mmol/L		
				Na：(0～1.00)mmol/L	U=0.034 mmol/L		
		Detection limit		K：≤0.004mmol/L	U=0.001mmol/L		
				Na：≤0.008mmol/L	U=0.004mmol/L		
8	*Polarimeter and Polarimetric Saccharimeters	Optical rotation	Verification Regulation of Polarimeter and Polarimetric Saccharimeters JJG 536	-75° ～+75°	U=0.003° ～0.005°		
		Brix		-209° Z～+209° Z	U=0.02° Z		
9	*Mercury analyzers	Detection limit	Verification Regulation of Mercury Analyzers JJG 548	Absorption class:≤1.0ng	U_{rel}=47%		
				Fluorescence class:≤0.1ng	U_{rel}=47%		
10	*Gas Chromatographs	Sensitivity	Verification Regulation of Gas Chromatographs JJG 700	TCD(Benzene in Toluene)：≥800mV•mL/mg	U_{rel}=11%		
				TCD(CH_4-N_2)：≥800mV•mL/mg	U_{rel}=10%		
		Detection limit		ECD(lindane in isooctane)：≤5pg/mL	U_{rel}=11%		
				FID(CH_4-N_2)：≤0.5ng/s	U_{rel}=11%		

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				FID(n-Hexadecane in isooctane)：≤ 0.5ng/s	U_{rel}=11%		
				FPD(P)：≤0.1ng/s	U_{rel}=16%		
				FPD(S)：≤0.5ng/s	U_{rel}=11%		
				NPD(N)：≤5pg/s	U_{rel}=11%		
				NPD(P)：≤10pg/s	U_{rel}=11%		
11	*Liquid Chromatographs	Minimum detection concentration	Verification Regulation of Liquid Chromatographs JJG 705	UV VIS detector:≤5×10^{-8}g/mL	U_{rel}=4.4%		
				DAD detector:≤5×10^{-8}g/mL	U_{rel}=4.4%		
				FLD detector:≤5×10^{-9}g/mL	U_{rel}=4.4%		
				DRD detector:≤5×10^{-6}g/mL	U_{rel}=5.1%		
				Evaporative light scattering detector:≤5×10^{-6}g/mL	U_{rel}=5.1%		
		Flow		(0.1～1.5)mL/min	U_{rel}=0.3%		
12	*Ion Chromatographs	Minimum detection concentration	Verification Regulation of Ion Chromatographs JJG 823	Conductance detector、UV VIS detector、Electrochemical detector: ≤0.02 μg/L	U_{rel}=40%		
		Flow		(0.2～1.5)mL/min	U_{rel}=0.2%		
13	*Quadrupole Inductively Coupled Plasma	Detection limit	Calibration Specification for Quadrupole Inductively Coupled Plasma Mass	Be:≤30ng/L	U_{rel}=48%		
				In：≤10ng/L	U_{rel}=48%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
	Mass Spectrometers		Spectrometers JJF 1159	Bi：≤10ng/L	U_{rel}=48%		
14	*Gas Chromatography-Mass Spectrometries	Signal to Noise Ratio	Calibration Specification for Gas Chromatography-Mass Spectrometries JJF 1164	Ion trap, single quadrupole(EI^+、CI^+、CI^-)： S/N≥10:1	U_{rel}=15%		
				Triple quadrupole (EI^+、CI^+)：S/N≥10：1	U_{rel}=15%		
				Time of flight, electrostatic orbit(EI^+)：S/N≥50：1	U_{rel}=15%		
		Atomic mass		(50～700)u	U=0.06u		
15	*Liquid Chromatography-Mass Spectrometers	Signal to Noise Ratio	Calibration Specification for Liquid Chromatography-Mass Spectrometers JJF 1317	Triple quadrupole(ESI-)、Single quadrupole、ion trap(ESI-、ESI+、APCI+):≥10:1Triple quadrupole(ESI+、APCI+):≥30:1	U_{rel}=10%		
		Atomic mass		(190～2300)u	U=0.10u		
16	*Analyzers for Oil Content in Water	Concentration	Verification Regulation of Analyzers for Oil Content in Water JJG 950	(1～10)mg/L	U=0.2mg/L		
				(10～1000)mg/L	U_{rel}=3.3%		
17	*Turbidimeters	Turbidity	Verification Regulation of Turbidimeters JJG 880	(1～2000)NTU	U_{rel}=3.2%		
18	Dissolved Oxygen Meters	Concentration	Verification Regulation of Dissolved Oxygen Meters JJG 291	(5～12)mg/L	U=0.12mg/L		
19	*On-line Automatic Determinators of	Concentration	Verification Regulation of On-line Automatic Determinators of Chemical	(16～100)mg/L	U_{rel}=2.2%		

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	Chemical Oxygen Demand (COD)		Oxygen Demand (COD) JJG 1012	(100～1000)mg/L	U_{rel}=1.0%		
20	*Chemical Oxygen Demand (COD) Meters	Concentration	Verification Regulation of Chemical Oxygen Demand (COD) Meters JJG 975	Type A：(1～50)mg/L	U_{rel}=2.6%		
				Type A：(50～1000)mg/L	U_{rel}=1.9%		
		Temperature		(100～200)℃	U=0.3℃		
21	*Total Organic Carbon Analyzer	Concentration	Verification Regulation of Total Organic Carbon Analyzer JJG 821	organic carbon：(1～1000)mg/L	U_{rel}=3%		
				inorganic carbon：(1～1000)mg/L	U_{rel}=3%		
22	*Ammonia-Nitrogen Automatic Analyzers	Concentration	Verification Regulation of Ammonia-Nitrogen Automatic Analyzers JJG 631	(0.2～2.0)mg/L	U=0.12mg/L		
				(2.0～100)mg/L	U_{rel}=3%		
23	*Total Nitrogen Analyzer	Concentration	Calibration Specification for Total Nitrogen Analyzer T/JJF(North China)5001	(0.1～20)mg/L	U_{rel}=3.4%		
				(20～500)mg/L	U_{rel}=2%		
24	*Silicate Analyzers	Concentration	Calibration Specification for Silicate Analyzers JJF 1539	(2～100) μg/L	U=1.3 μg/L		
				(100～200) μg/L	U_{rel}=2%		
25	*Phosphate Analyzers	Concentration	Calibration Specification for Phosphate Analyzers JJF 1567	(0.1～50)mg/L	U_{rel}=1.5%		
26	*Flow Analyzers with Spectrophotography	Wavelength	Calibration Specification for Flow Analyzers with Spectrophotography JJF 1568	(360～1100)nm	U=1.2nm		
		Detection limit		Cyanide：≤0.002mg/L	U=0.0003mg/L		
				Volatile phenol in water：≤0.002mg/L	U=0.0003mg/L		

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				Hexavalent chromium：≤0.004mg/L	U=0.0013mg/L		
				Total phosphorus：≤0.01mg/L	U=0.002mg/L		
				Ammonia nitrogen：≤0.04mg/L	U=0.003mg/L		
				Total nitrogen：≤0.04mg/L	U=0.003mg/L		
				Sulfide：≤0.005mg/L	U=0.0005mg/L		
				Anionic surfactant：≤0.05mg/L	U=0.003mg/L		
27	*Analyzer of Copper Content	Concentration	Calibration Specification for Analyzer of Copper Content and Iron Content JJF（Qian）13	(5～200) μg/L	U=2.0 μg/L		
28	*Instrument for KF Coulometry Titration	Water content	Verification Regulation of Instrument for KF Coulometry Titration JJG 1044	10 μg	U_{rel}=6.6%		
				100 μg	U_{rel}=3.8%		
				(1000～5000) μg	U_{rel}=3.2%		
29	*Karl Fischer Volumetric Titrators for Water Content	Water content	Verification Regulation of Karl Fischer Volumetric Titrators for Water Content JJG 1154	(1～5)mg	U_{rel}=6.2%		
				(5～20)mg	U_{rel}=1.9%		
30	Flow Cup Viscometers	Viscosity	Verification Regulation of Flow Cup Viscometers JJG743	(2～1×10^4)mm²/s	U_{rel}=2.6%		
31	Rotational Viscometers	Viscosity	Verification Regulation of Rotational Viscometers JJG1002	(1～1×10^2)mPa•s	U_{rel}=0.9%		
				(1×10^2～5×10^3)mPa•s	U_{rel}=1.6%		

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				(5×10³～1×10⁵)mPa•s	U_{rel}=2.4%		
32	*Laboratory pH Meters	pH	Verification Regulation of Laboratory pH Meters JJG 119	Electricity meter：0～14	U=0.001		
				Meters：4～10	U=0.02		
		Voltage		(-2000～2000)mV	U=0.02%FS		
33	*On-line pH Meters	pH	Calibration Specification for On-line pH Meters JJF 1547	Electricity meter：0～14	U=0.01		
				instrument：4～10	U=0.02		
		Voltage		(-2000～2000)mV	U=0.02%FS		
34	*Laboratory Ion Meters	pX	Verification Regulation of Laboratory Ion Meters JJG 757	Electricity meter：0～14	U=0.002		
				Meters：2～4	U=0.015		
		Potential		(-2000～2000)mV	U=0.014%FS		
35	*Automatic Potentiometric Titrators	Potential	Verification Regulation of Automatic Potentiometric Titrators JJG 814	(-2000～2000)mV	U=0.02%FS		
		Concentration		0.1mol/L	U_{rel}=0.5%		
		Capacity		(1～25)mL	U_{rel}=0.1%		
36	Verificating Meters for pH Meters	Electric potential	Verification Regulation of Verificating Meters for pH Meters JJG 919	(-2000～2000)mV	U=0.005 mV		
		pH		0～14	U=0.0002		
		Resistance		1GΩ、 3GΩ	U=0.006 GΩ		
37	*Electrolytic Conductivity Meters	Electrolytic Conductivity	Verification regulation of conductivity meter JJG 376	Potentiometers：(0.2～2×10⁵) μS • cm⁻¹	U_{rel}=0.08%		
				Meters：(100～2000) μS • cm⁻¹	U_{rel}=0.3%		

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38	*Micro Oxygen Analyzers	Concentration	Verification regulation of Micro Oxygen Analyzers JJG945	(10～100) μ mol/mol	U_{rel}=2.0%		
39	*Electrochemical Oxygen Meter	Concentration	Verification Regulation of Electrochemical Oxygen Meter JJG365	(5～25)×10^{-2}mol/mol	U_{rel}=1.3%		
40	*Thermal Conductivity Hydrogen Analyzer	Concentration	Verification regulation of thermal conductivity hydrogen analyzer JJG663	(15～85)×10^{-2}mol/mol	U_{rel}=1.8%		
41	Formaldehyde Gas Analyzers	Concentration	Verification regulation of Formaldehyde Gas Analyzers JJG1022	(0.3～1.2) μ mol/mol	U_{rel}=2.8%		
42	*Volatile Organic Compounds Photo Ionization Detectors	Concentration	Calibration Specification for Volatile Organic Compounds Photo Ionization Detectors JJF1172	(20～80) μ mol/mol	U_{rel}=2.6%		
43	*Carbon Monoxide and Carbon Dioxide Infrared Gas Analyzer	Concentration	Verification regulation of Carbon Monoxide and Carbon Dioxide Infrared Gas Analyzer JJG635	CO:(10～200) μ mol/mol	U_{rel}=1.8%		
				CO_2:(0.1～16)×10^{-2}mol/mol	U_{rel}=1.6%		
44	*Carbon Monoxide Detectors	Concentration	Verification regulation of Carbon Monoxide Detectors JJG915	(10～2000) μ mol/mol	U_{rel}=1.5%		

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45	*Alarmer Detectors of Combustible Gas	Concentration	Verification regulation of Alarmer Detectors of Combustible Gas JJG693	(0.1～60)%LEL	U_{rel}=2.4%	Accredited only for methane detectors, hydrogen detectors, isobutane detectors, acetylene detectors, propane detectors	
46	*Sulfur Dioxide Gas Detectors	Concentration	Verification regulation of sulfur dioxide gas detector JJG 551	(20～100) μ mol/mol	U_{rel}=1.9%		
47	*Ammonia Gas Detectors	Concentration	Verification regulation of Ammonia Gas Detectors JJG 1105	(10～100) μ mol/mol	U_{rel}=2.4%		
48	*Sulfur Hydrogen Gas Detectors	Concentration	Verification regulation of Sulfur Hydrogen Gas Detectors JJG695	(0.1～100) μ mol/mol	U_{rel}=1.5%		
49	*Alarmer Detector of Sulfur Hexafluoride	Concentration	Calibration Specification for the Alarmer Detector of Sulfur Hexafluoride JJF1263	(20～1000) μ mol/mol	U_{rel}=1.5%		
50	*Hydrogen Chloride Gas Detectors and Alarms	Concentration	Calibration Specification for Hydrogen Chloride Gas Detectors and Alarms JJF1888	(1～20) μ mol/mol	U_{rel}=3.4%		
51	*Flue Gas Analyzers	Concentration	Verification regulation of Flue Gas Analyzers JJG968	CO:(0.1～1.0)×10^{-2}mol/mol	U_{rel}=1.1%		
				O_2:(5～25)×10^{-2}mol/mol	U_{rel}=1.2%		

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				SO_2:(0.1～0.5)×10^{-2}mol/mol	U_{rel}=2.0%		
				NO：(0.1～0.4)×10^{-2}mol/mol	U_{rel}=1.1%		
52	*Dust Sampler	Flow Rate	Verification Regulation of Dust Sampler JJG520	(2～80)L/min	U_{rel}=1.2%		
53	*Samplers for Stack Dust	Flow Rate	Verification Regulation of Samplers for Stack Dust JJG 680	(5～150)L/min	U_{rel}=1.2%		
54	*Air Samplers	Flow Rate	Verification Regulation of Air Samplers JJG956	(100～6000)mL/min	U_{rel}=1.3%		
55	*Total Suspended Particulates Sampler	Flow Rate	Verification Regulation of Total Suspended Particulates Sampler JJG943	(5～150)L/min	U_{rel}=1.2%		
				(800～1200)L/min	U_{rel}=1.2%		
56	Airborne Particle counter	Concentration	Calibration specification for Airborne Particle counter JJF 1190	(1000～1×10^5)pieces / 28.3L	U_{rel}=14%		
57	*Carbon dioxide detection alarm	Concentration	Calibration specification for carbon dioxide detection alarm JJF(ji)66	(0.1～16)×10^{-2}mol/mol	U_{rel}=2.6%		
58	*Alarms and Detectors of Chloroethylene Gas	Concentration	Verification Regulation Alarms and Detectors of Chloroethylene Gas JJG1125	(2～100) μ mol/mol	U_{rel}=2.5%		
59	*nitric oxide and nitrogen dioxide gas detector	Concentration	Verification regulation of nitric oxide and nitrogen dioxide gas detector JJG（xin）01	NO：(20～60) μ mol/mol	U_{rel}=2.2%		
				NO_2：(20～60) μ mol/mol	U_{rel}=2.2%		
60	*Alarmer Detectors of Benzene	Concentration	Calibration Specification for Alarmer Detectors of Benzene JJF1674	(2～100) μ mol/mol	U_{rel}=3.2%		

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61	*Chlorine Alarm Detectors	Concentration	Calibration Specification for Chlorine Alarm Detectors JJF1433	(5～20) μ mol/mol	U_{rel}=2.7%		
62	*Flue Gas Samplers	Flow Rate	Verification Regulation of Flue Gas Samplers JJG 1169	(100～2000)mL/min	U_{rel}=1.2%		
		Temperature		(0～200)℃	U=0.06℃		
		Pressure		(-30～0)kPa	U=0.1kPa		
		Time		(0.1～3600)s	U=0.2s		
		air pressure		(80～106)kPa	U=0.16kPa		
63	Dust Concentration Measuring Instruments	Concentration	Verification Regulation of Dust Concentration Measuring Instruments JJG 846	(0～10)mg/m^3	U=0.36mg/m^3		
64	*Polymerase chain reaction analyzers	Temperature	Calibration specification for Polymerase Chain Reaction Analyzers JJF 1527	(30～95)℃	U=(0.16～0.32)℃		
		Concentration		(1×10^2～1×10^8)copies/μL	U_{rel}=10%		
65	*Melting-point Measurement instruments	Temperature	Verification regulation of melting point tester JJG 701	(50～300)℃	U=0.26℃		
66	*Open/ Close Cup Flash Point Testers	Temperature	Calibration specification for open / closed flash point tester JJF 1384	Close cup：(70～110)℃	U=3.2℃		
				Close cup：(110～180)℃	U=7.0℃		
				Open cup：(80～200)℃	U=7.0℃		
				Open cup：(200～230)℃	U=9.0℃		

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67	*Bomb Calorimeters	Calorific value	Verification regulation of oxygen bomb calorimeter JJG672	(26430～26490)J/g	U=34J/g		
68	*Determinators for Total sulfur in Coal	Sulfur content	Verification regulation of total sulfur analyzer in coal JJG1006	0.36%～4.40%	U=0.05%		
69	*Automatic Amino Acid Analyzer	Detection limit	Verification regulation of amino acid analyzer JJG 1064	≤1nmol(S/N=2，His)	U_{rel}=58%		
70	*Elemental analyzers	Concentration	Calibration specification for elemental analyzers JJF 1321	kjeldahl apparatus N：20%～50%	U_{rel}=1.4%		
				Coal C：40%～90%	U_{rel}=1.4%		
				Coal H：1.0%～5.0%	U_{rel}=3.8%		
				Coal N：0.2%～2.0%	U_{rel}=6.0%		
				steel O：0.002%～0.005%	U_{rel}=6.6%		
				steel H：0.0001%～0.0003%	U_{rel}=16%		
				steel N：0.02%～0.06%	U_{rel}=4.2%		
71	*Residual chlorine tester	concentration	Calibration Specification for Residual Chlorine Meters JJF1609	Total residual chlorine ：(0.1～20)mg/L	U_{rel}=2.3%		
				Simulated free residual chlorine：(0.1～20)mg/L	U_{rel}=2.1%		
72	*Liquid chromatography-atomic fluorescence spectrometer	Minimum detection quantity	Verification regulation of liquid chromatography-atomic fluorescence instrument JJG1151	As(V):＜1.0ng	U_{rel}=15%		
				MMA:＜0.7ng	U_{rel}=14%		
				DMA:＜0.7ng	U_{rel}=14%		
73	*Ultraviolet	concentration	Calibration specification for	(0.1～200)mg/L	U_{rel}=2.6%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
	spectrophotometry oil measuring instrument	Minimum detectable concentration	ultraviolet spectrophotometry oil gauges JJF(Ji)202	≤0.05mg/L	U_{rel}=45%		
74	*Liquor analysis by gas chromatography	Detection limit	Calibration specification for gas chromatograph for liquor analysis JJF 2022	≤5.0×10^{-3}mg/mL	U_{rel}=12%		
75	*Osmometers	concentration	V.R. of Osmometers JJG 1089	(100～400)mOsmol/kg	U=2.3mOsmol/kg		
		concentration		(400～700)mOsmol/kg	U_{rel}=0.6%		
76	*Raw-Milk Freezing Point Testers	temperature	C.S.for Raw-Milk Freezing Point Testers JJF 1816	(-600～-400)m℃	U=1.1m℃		
77	*Permanganate Index Analyzers	Concentration	C.S.for Permanganate Index Analyzers JJF 2173	(1～5)mg/L	U_{rel}=3.9%		
		Temperature		（50～120）℃	U=0.11℃		
78	*Milk Quantitative Component Analyzers	Concentration	C.S.for Milk Quantitative Component Analyzer JJF 1820	Protein (2.1～3.5)g/100g	U_{rel}=3.2%		
				Fat(2.1～3.5)g/100g	U_{rel}=2.2%		
				Lactose(2.1～3.5)g/100g	U_{rel}=1.0%		
79	*Pour Point and Cloud Point Testers of Petroleum Products	Temperature	C.S.for Pour Point and Cloud Point Testers of Petroleum Products JJF 1869	Pour point(-30 ～-3)℃	U=2.8℃		
80	*Liquid-borne Particle Counters	Particle counting	V.R.of Liquid-borne Particle Counters JJG 1061	Oil particles: (1～88000) per 10mL	U_{rel}=10%		
81	*On-line Conductivity Meters	Electrical conductivity	C.S.for On-line conductivity meter JJF（Meng）084	Electric meter：(20～2×10^5) μS/cm	U_{rel}=0.3%		
				Instrument：(20～1.2×10^5) μS/cm	U_{rel}=0.5%		

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82	*Alkylmercury Analyzers	Content	C.S.for Alkylmercury Analyzers JJF（Meng） 119	Methylmercury：(5.0～100)pg	U_{rel}=5.8%		
				Ethylmercury：(5.0～100)pg	U_{rel}=5.6%		
		Detection limit		≤0.3pg	U_{rel}=48%		
83	*Ultraviolet Fluorescence Sulfur Analyzers	Concentration	C.S.for Ultraviolet Fluorescence Sulfur Analyzers JJF 1685	(1～10)mg/L	U=0.14mg/L		
				(10～100)mg/L	U_{rel}=3.0%		
		Detection limit		≤0.2mg/L	U_{rel}=46%		
84	*Gas-phase molecular absorption spectrometers	Detection limit	C.S.for Gas -phase Molecular Absorption Spectrometers JJF（Meng）088	Ammonia nitrogen：≤0.020mg/L	U_{rel}=45%		
				Nitrite nitrogen：≤0.003mg/L	U_{rel}=45%		
				Nitrate nitrogen：≤0.006mg/L	U_{rel}=45%		
				Total nitrogen：≤0.050mg/L	U_{rel}=45%		
				Sulfide：≤0.005mg/L	U_{rel}=45%		
85	*Disintegration Analyzers	Temperature	Calibration Specification for Disintegration Analyzers JJF 1449	37℃	U=0.2℃		
		Disintegration time		527s	U_{rel}=12%		
86	Hand Saccharimeter(Content-meter) and Hand Refractometer	Brix	Verification Regulation of Hand Saccharimeter(Content-meter) and Hand Refractometer JJG 820	0～80%	U=0.1%		
		refractive index		n_D:1.3330～1.7000	U=0.0005		

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87	*Thin Layer Chromatography Scanners	Concentration	C. S. for Thin Layer Chromatography Scanners JJF 1712	(0.01～0.04)mg/mL	U=0.0026mg/mL		
88	*On-line Turbidimeters	Turbidity	Calibration Specification of On-line Turbidimeters JJF(Meng)120	(1～5) NTU	U_{rel}=4.6%		
				(5～100) NTU	U_{rel}=3.8%		
				(100～4000) NTU	U_{rel}=3.3%		
89	*Iron Analyzers	Concentration	Calibration Specification for Iron Analyzers T/JJF(HB) 5009	(1～200) μg/L	U_{rel}=1.8%		
90	*Carbon-sulfur Analyzers	Content	Verification Regulation of Carbon-sulfur Analyzers JJG 395	C:0.005%～0.010%	U=0.0007%		
				C:0.010%～0.100%	U=0.003%		
				C:0.100%～1.000%	U=0.004%		
				C:1.00%～4.00%	U=0.02%		
				S:0.003%～0.010%	U=0.0007%		
				S:0.010%～0.100%	U=0.003%		
				S:0.100%～0.200%	U=0.005%		
91	*On-line Gas Chromatograph	Sensitivity	Verification Regulation of On-line Gas Chromatograph JJG 1055	TCD (n-Butane) ≥ 1000 mV • mL/mg	U_{rel}=3.7%		
92	*Energy Dispersive X-Ray Fluorescence Spectrometers	content	Calibration Specification for Energy Dispersive X-Ray Fluorescence Spectrometers JJF 2024	polymer matrix Cd：(8～110)mg/kg	U_{rel}=6.4%		
				polymer matrix Cr：(90～1122)mg/kg	U_{rel}=5.3%		

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				polymer matrix Hg：(90～1200)mg/kg	U_{rel}=5.3%		
				polymer matrix Pb：(90～1200)mg/kg	U_{rel}=5.1%		
93	*Acid Number Testers	Acid number	Calibration Specification for Acid Number Testers JJF(Ji) 3030	(0.05～0.1)mgKOH/g	U_{rel}=7.5%		
				(0.1～2)mgKOH/g	U_{rel}=2.4%		
94	*Micro-spectrophotometers	Concentration	Calibration Specification for Micro-spectrophotometers JJF 1836	Salmon essence DNA：(10～2000)mg/kg	U_{rel}=2.4%		
				Bovine Serum Albumin：(0.05～0.1)mg/mL	U_{rel}=12%		
				Bovine Serum Albumin：(0.1～2)mg/mL	U_{rel}=6.6%		
95	*Bromine Number and Bromine Index Meters	Content	Calibration Specification for Bromine Number and Bromine Index Meters JJF 1569	Bromine value：(5～20)g/100g	U_{rel}=6.1%		
				Bromine value：(20～300)g/100g	U_{rel}=5.3%		
				Bromine index: (5 ～20) mg/100g	U_{rel}=8.1%		
				Bromine index: (20～600) mg/100g	U_{rel}=5.3%		
96	*Hydrogen Fluoride Alarm Detectors	concentration	Calibration Specification for Hydrogen Fluoride Alarm Detectors JJF(Meng)069	(2～10) μ mol/mol	U_{rel}=4.1%		
10、 Ionizing radiation							
1	*X-ray flaw detectors	Kerma Rate of Air	Verification regulation of X-ray flaw detectors JJG 40	(0.01～19.9)cGy/min	U_{rel}=3.6%		

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2	*X-ray Security Inspection Equipment	Kerma rate of air	Calibration Specification for X-ray Security Inspection Equipment JJF 1275	(0.1～100) μGy/h	U_{rel}=18%		
3	*Medical Diagnostic X-ray Radiation Source for Medical Digital Subtraction Angiography	Kerma rate of air	Verification regulation of Medical Diagnostic X-ray Radiation Source for Medical Digital Subtraction Angiography JJG 1067	1mGy/min ～1Gy/min	U_{rel}=4.2%		
		Tube Voltage		50kV～150kV	U_{rel}=3%		
4	*X-ray Radiation Sources for Medical Digital Radiography Systems(DR)	air kerma	Verification Regulation of X-ray Radiation Sources for Medical Digital Radiography Systems(DR) JJG 1078	0.1mGy～1Gy	U_{rel}=7%		
		Dose Area Product		2.25 μGy • m^2～0.4Gy • m^2	U_{rel}=7%		
		Tube Voltage		50kV～150kV	U_{rel}=3%		
5	*Medical Diagnostic X-Ray Radiation Source for Spiral Computed Tomography (CT)	absorbed dose	Verification Regulation of Medical Diagnostic X-ray Radiation Source for Spiral Computed Tomography (CT) JJG 961	100 μGy～ 100mGy	U_{rel}=6.6%		
6	*Low Background Alpha/Beta Measuring Instruments	Surface emission Souices	V.R.of Low Background Alpha/Beta Measuring Instruments JJG 853	α :(2×10^4～1.2×10^5) (min • 2π sr)$^{-1}$	U_{rel}=2.6%		
				β :(2×10^4～1.2×10^5) (min • 2π sr)$^{-1}$	U_{rel}=2.6%		
7	*Single Photon Emission Computed Tomography System （SPECT）	Activity	Calibration Specification for Single Photon Emission Computed Tomography System (SPECT) JJF 2044	^{99m}Tc:(3×10^4～1.2×10^{11}) Bq	U_{rel}=5.9%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
11、 Special measuring instruments for motor vehicles							
1	*Filter-Type Smokemeters	smoke	Verification Regulation of Filter-Type Smokemeters JJG847	（1.0～9.0）BSU	U=0.3 BSU		
2	*Opacimeters	opacity in the standard effective optical path length	Verification Regulation of Opacimeters JJG976	（0～99.0）%	U=1.1%		
3	*Diesel Vehicle Nitrogen Oxides(NOx) Measuring Instruments	concentration	Calibration Specification for Diesel Vehicle Nitrogen Oxides(NOx) Measuring Instruments JJF 1873	CO_2：（2.0～12.0）×10^{-2}mol/mol	U_{rel}=1.4 %		
				N0:（300～3000）×10^{-6}mol/mol	U_{rel}=1.4 %		
				NO_2:（50～600）×10^{-6}mol/mol	U_{rel}=1.9 %		
4	*Vehicle Exhaust Emissions Measuring Instruments	concentration	Verification Regulation of Vehicle Exhaust Emissions Measuring Instruments JJG 688	HC:（200～3200）×10^{-6}mol/mol	U_{rel}=1.1%		
				O_2:（0.5～20.9）×10^{-2}mol/mol	U_{rel}=2.4%		
				NO:（300～3000）×10^{-6}mol/mol	U_{rel}=1.4%		
				CO_2:（3.6～12.00）×10^{-2}mol/mol	U_{rel}=1.5%		
				CO:（0.5～4.8）×10^{-2}mol/mol	U_{rel}=1.3%		
5	*Headlamp Testers for Motor Vehicle	luminous intensity	Verification Regulation of Headlamp Testers for Motor Vehicle JJG745	（5～60）kcd	U_{rel}=7%		
		angle		Up 1° ～Down 2°，Left 2° ～ Right 2°	U=6′		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
6	*Roller Type Speedometer Tester	Speed	Verification Regulation of Roller Type Speedometer Tester JJG 909	（1～120）km/h	U_{rel}=0.8%		
7	*Special Axle(Wheel) Load Scales for Motor Vehicle Test	Wheel weight	Verification Regulation of Special Axle(Wheel) Load Scales for Motor Vehicle Test JJG1014	（500～50000）kg	U_{rel}=0.6%		
8	*Platform Brake Testers	Wheel weight	Verification Regulation of Platform Brake Testers JJG1020	（1～10000）kg	U_{rel}=0.6%		
		Braking force		（1～3500）daN	U_{rel}=0.6%		
9	*Roller Opposite Force Type Brake Testers	Wheel braking force	Verification Regulation of Roller Opposite Force Type Brake Testers JJG906	（500～4500）daN	U_{rel}=0.8 %		
10	*Loading Method Automobile Brake Testers	Wheel braking force	Verification Regulation of Loading Method Automobile Brake Testers JJG1160	（100～4500）daN	U_{rel}=0.8 %		
		Axle weight		（100～11500）kg	U_{rel}=0.4 %		
11	*Automobile Side Slip Tester	Sideslip	Verification Regulation of Automobile Side Slip Tester JJG908	(-10～10)m/km	U=0.04m/km		
12	*Four-wheel Aligners	Single wheel toe in angle	Calibration Specification for Four-wheel Aligners JJF1154	(-10～10)°	U=1.4′		
13	Non-contact Automotive Speedmeter	speed	Calibration Specification for Non-contact Automotive Speedmeter JJF1193	（5～180）km/h	U_{rel}=0.3%		
14	Steering Force-steering Angle Detectors for Steering Wheels of Motor Vehicles	Steering force	Calibration Specification for Steering Force-steering Angle Detectors for Steering Wheels of Motor Vehicles JJF1196	（100～500）N	U_{rel}=0.6%		
		Steering angle		（0～1080）°	U=0.6°		
15	*Tyre Pressure Gauges	Pressure	Verification Regulation of Tyre Pressure Gauges JJG927	（0～2.5）MPa	U=0.5%FS		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
16	*Portable Braking Performance Tester for Motor Vehicles	Retardation	Calibration Specification for Portable Braking Performance Tester for Motor Vehicles JJF1168	Static:（0～5.0）m/s^2	U=0.05 m/s^2		
				Static：（5.0～9.8）m/s^2	U_{rel}=0.7%		
				Dynamic:（1～9.8）m/s^2	U_{rel}=1.6%		
17	*Calibration Devices of Non-contact Automotive Speedmeters	Linear velocity	Calibration Specification for Calibration Devices of Non-contact Automotive Speedmeters JJF1486	（5.00～180.00）km/h	U_{rel}=0.06%		
18	*Motor Vehicle Engine Speed Measuring Instruments	speed	Calibration Specification for Motor Vehicle Engine Speed Measuring Instruments JJF 1375	（500～6000）r/min	U_{rel}=0.5%	Accredited only for calibration of the engine speed measuring instrument with vibration induction	
19	*Vehicle Contour Dimensions Testers	length	Calibration Specification for Vehicle Contour Dimensions Testers JJF1749	（0.1～30）m	U_{rel}=0.3%		
20	*Zero gas generator	concentration	Calibration Specification for Zero Gas Generators JJF 2159	carbon monoxide:（0～20）×10^{-6}mol/mol	U=0.4×10^{-6}mol/mol		
				carbon dioxide:(0～40)×10^{-6}mol/mol	U=0.6×10^{-6}mol/mol		
				Hydrocarbons:(0～40)×10^{-6}mol/mol	U=0.3×10^{-6}mol/mol		
				nitric oxide :(0～20)×10^{-6}mol/mol	U=0.3×10^{-6}mol/mol		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				Nitrogen dioxide:(0～20) ×10^{-6}mol/mol	U=0.3×10^{-6}mol/mol		
				oxygen:（0～25）×10^{-2}mol/mol	U=0.13×10^{-2}mol/mol		
21	*Tread depth gauge	Length	Calibration Specification for Tire Tread Depth Gauges JJF1477	(0～50)mm	U=0.02mm		
12、 Special meteorological and marine measuring instruments							
1	Portable 3-cup Anemometers	Wind Speed	Verification Regulation of Portable 3- cup Anemometers JJG431	（1～10）m/s	U=0.15m/s		
				（10～20）m/s	U=0.18m/s		
				（20～30）m/s	U=0.26m/s		
2	Portable Induction Anemometers	Wind Speed	Verification Regulation of Portable Induction Anemometers JJG515	（2～10）m/s	U=0.15m/s		
				（10～20）m/s	U=0.18m/s		
				（20～30）m/s	U=0.26m/s		
3	Mine Anemometer	Wind Speed	Verification Regulation of Mine Anemometer JJG（Coal）01	（0.2～1）m/s	U=0.4m/s		
				（1～10）m/s	U=0.15m/s		
				（10～20）m/s	U=0.18m/s		
				（20～30）m/s	U=0.26m/s		
4	Contact Anemorumbometer	Wind Speed	Verification Regulation of Contact Anemorumbometer JJG613	（2～10）m/s	U=0.15m/s		
				（10～20）m/s	U=0.18m/s		
				（20～30）m/s	U=0.26m/s		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
13、 Special medical measuring instruments							
1	*Pulmonary Function Measuring Instrument	Vital Capacity	Calibration specification for pulmonary function measuring instrument JJF 1213	(1～8)L	U=0.05L		
		Peak Expiratory Flow		(1～12)L/s	U_{rel}=3.5%		
		Ventilation Volume		(30～100)L/min	U_{rel}=3.5%		
2	*ELISA Analytical Instruments	Absorbance	Verification Regulation of ELISA Analytical Instruments JJG 861	0.1～2.00	U=0.003		
		Wave Length		(400～700)nm	U=0.6nm		
3	Verification Instrument for Electrocardiograph and Electroencephalograph	Voltage	Verification Regulation of Verification Instrument for Electrocardiograph and Electroencephalograph JJG 749	Square Wave Voltage:0.1mV～5V	U_{rel}=0.13%		
				Sine Wave Voltage (P-P):0.1mV～5V	U_{rel}=0.13%		
				Polarization Voltage:±300mV	U_{rel}=0.13%		
				Common-mode Voltage Meter:10V	U_{rel}=0.13%		
		Frequency		0.1Hz～200Hz	U_{rel}=0.13%		
4	Calibration Device for Electric Cardiac Monitor	Voltage	Verification regulation of Calibration Device for Electric Cardiac Monitor JJG 1016	Voltage (peak to peak):0.5mV～2mV	U_{rel}=0.13%		
				Standard Heart Rate Signal Voltage:0.5mV～2mV	U_{rel}=0.13%		
				Standard Heart Rate Signal Voltage:-0.5mV～-2mV	U_{rel}=0.13%		
				Common-mode Voltage Meter:10V	U_{rel}=0.13%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				Polarization Voltage:± 300mV	U_{rel}=0.13%		
		Heart Rate		(27～300)min^{-1}	U_{rel}=0.13%		
		Frequency		0.1Hz～100Hz	U_{rel}=0.13%		
		Sampling Resistor		10k Ω	U_{rel}=1.2%		
5	*Cardiac Defibrillators	Energy	Calibration specification for cardiac defibrillators JJF 1149	(1.9～360)J	U=2.4J		
		Voltage		(0.1～4)mV	U=0.02 mV		
		Scanning Speed		25mm/s	U=0.5mm/s		
		Heart Rate		(0～200)min^{-1}	U=0.5min^{-1}		
6	*Medical magnetic resonance imaging (MRI)	Field Intensity	Verification regulation of medical magnetic resonance imaging (MRI) JJG（Meng）027	(0.17～2.1)T	U=12mT		
7	*High Frequency Surgical Units	Power	Calibration Specification for High Frequency Surgical Units JJF 1217	(10～400)W	U_{rel}=3.4%		
8	*Ventilators	Tidal Volume	Calibration specification for Ventilators JJF 1234	(50～800) mL	U_{rel}=3.8%		
		Frequency		(10～40)min^{-1}	U_{rel}=2.6%		
		Pressure		(0.2～3.0)kPa	U=0.05kPa		
		Oxygen Concentration		21%～100%	U=2.4%		
9	*Baby incubator	Temperature	Calibration Specification for Baby Incubator JJF 1260	32℃、36℃	U=0.09℃		
		Humidity		30%RH～90%RH	U=1.1%RH		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
10	*Haemodialysis Equipment	conductivity	Calibration Specification for Haemodialysis Equipment JJF 1353	(12.5～15.5)mS/cm	U=0.13mS/cm		
		temperature		(25～40)℃	U=0.13℃		
		Flom		Heparin Pump Flom:(5～20)mL/h	U_{rel}=2.8%		
				Dialysis Flom:(400～700)mL/min	U_{rel}=1.9%		
				Blood Flow:(50～1000)mL/min	U_{rel}=3.6%		
				Dehydration Rate:200mL/min	U_{rel}=1.2%		
		pressure		（0～450）mmHg	U=2.8mmHg		
11	*Urine Analyzers	pH	Calibration Specification of Urine Analyzers JJF 1129	5.5～7.5	U=0.4		
		RBC		(1～200)/μL	U_{rel}=7.3%		
		WBC		(1～200)/μL	U_{rel}=6.9%		
		PRO		(0.1～2.0)g/L	U_{rel}=10%		
		GLU		(1～42)mmol/L	U=0.16mmol/L		
		SG		1.000～1.025	U=0.005		
12	*Automatic Urinary Sediment Analyzers	RBC	Calibration Specification for Automatic Urinary Sediment Analyzers JJF 1823	(150～2000)/μL	U_{rel}=11%		
		WBC		(50～2000)/μL	U_{rel}=10%		
13	*Non-invasive ventilator	Respiratory rate	Calibration Specification for Non-invasive Ventilators JJF 1997	(10～30)min^{-1}	U_{rel}=3.4%		
		Pressure		(0.4～2.0)kPa	U=0.12kPa		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		Inspiration Flow Oxygen Concentration		21%～60%	U=2.4%		
14	*Blood Cell Analyzers	WBC	Verification Regulation of Blood Cell Analyzers JJG 714	WBC:(2～20)×10^9/L	U_{rel}=2.7%		
		PLT		PLT:(50～500)×10^9/L	U_{rel}=2.4%		
		RBC		RBC:(2～10)×10^{12}/L	U_{rel}=2.3%		
		HGB		HGB:(50～200)g/L	U_{rel}=3.2%		
15	*medical suction equipment	pressure	Calibration Specification for Medical Suction Equipment JJF 1810	(-95～0)kPa	U=0.6kPa		
16	*Insufflator	Pressure	Calibration Specification for Insufflators JJF 1892	(0～40)mmHg	U=0.6mmHg		
		Flow Rate		(0～10)L/min	U=0.6L/min		
				(10～50)L/min	U_{rel}=6%		
17	*Medical Oxygen Generators with Molecular Sieve	flow	Calibration Specification for Medical Oxygen Generators with Molecular Sieve JJF 1891	(1～10)L/min	U_{rel}=4.8%		
18	*Emergency and transport Ventilators	tidal volume	Calibration Specification for Emergency and transport Ventilators JJF 1998	(50～800)mL	U_{rel}=7.0%		
		frequency		(10～40)min^{-1}	U_{rel}=3.6%		
		pressure		(0.2～3)kPa	U=0.13kPa		
19	*Automatic Closed Luminescence Immunoassay Analyzer	Concentration	Calibration Specification for Automatic Closed Luminescence Immunoassay Analyzers JJF 1752	Insulin:（10～150）pmol/L	U_{rel}=5%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
20	*Pulse Oximeters	pulse oxygen saturation	Calibration Specification for Pulse Oximeters JJF(Meng)105	70%～ 100%	U=2.5%		
		pulse rate		(30～ 200)min^{-1}	U=2min^{-1}		
21	*Glycohemoglobin Analyzers	Concentration	Calibration Specification for Glycohemoglobin Analyzers JJF 1841	4.5%～10.5%	U_{rel}=16%		
22	*C-reactive Protein Analyzers	Concentration	Calibration Specification for C-reactive Protein Analyzers JJF 2057	(3.3～ 133)mg/L	U_{rel}=9.3%		
23	*Syringe Pumps and Infusion Pumps	Flow Rate	Calibration Specification for Syringe Pumps and Infusion Pumps JJF 1259	(5～20) mL/h	U_{rel}=2.5%		
				(20～200) mL/h	U_{rel}=1.4 %		
				(200～1000) mL/h	U_{rel}=2.5%		
		pressure		(0～200)kPa	U=4kPa		
24	*Buoy type oxygen inhaler	Flow	Verification regulation of buoy oxygen inhalers JJG 913	(1～12)L/min	U=0.2L/min		
		Pressure		(0～10)MPa	U=0.3MPa		
14、 Special measuring instruments for construction and transportation							
1	*Rebound Test Hammer	Length	Verification Regulation of Rebound Test Hammer JJG817	Pointer length:（19.8～20.2）mm	U=0.06mm	Except for the High Strength Concrete Hammer	
				Spherical radius of the end of the Striker:（24.0～26.0）mm	U=0.1mm		
				Working length of spring:（61.2～61.8）mm	U=0.06mm		
				Stretch length of spring:（74.7～75.3）mm	U=0.06mm		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		Force		(0.50～0.80)N	U=0.02N		
		Tension spring stiffness		(755～815)N/m	U=0.40N/m		
		Rate setting		78～82	U=0.7		
2	*Flow Table for Determine Cement Mortar Fluidity	Mass	Verification Regulation of Flow Table for Determine Cement Mortar Fluidity JJG（JT）096	(4.2～4.5)kg	U=0.7g		
		Time		(24～26)s	U=0.2s		
		Landing Distance		(9.8～10.2)mm	U=0.12mm		
3	*Nonmetal Building Materials Plastic Limit Measuring Instruments	Mass	Calibration Specification for Nonmetal Building Materials Plastic Limit Measuring Instruments JJF1090	(75.8～301)g	U=0.06g	Except for Apparatus for Determining Penetration of Bituminous Materials	
		length		Diameter：(1～11)mm	U=0.005mm		
				Ruler：(0～70)mm	U=0.2 mm		
				Indicating device：(0～145)mm	U=0.16mm		
				Die head and attachment dimensions：(6～181)mm	U=0.07mm		
		Angle		29.8°～30.2°	U=0.05°		
		Time		(4.9～5.1)s	U=0.2s		
4	*Pure Slurry Cement Morter Mixer	Rotating Speed	Verification Regulation of Pure Slurry Cement Mortar Mixer JJG（Meng）2	(57～135)r/min	U=0.6 r/min		
		Time		(10～280)s	U=0.3s		
		Length		(1～3)mm	U=0.06mm		
5	*Jolting Table for	Time	Calibration Specification for	(58～62)s	U=0.2s		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
	Compacting Mortars Specimen	Mass	Jolting Table for Compacting Mortars Specimen JJF（Meng）004	(799～801)mm	U=0.3mm		
6	*Asphalt Mixture's Mixing Machine	Rotating Speed	Verification Regulation of Asphalt Mixture's Mixing Machine JJG(JT)064	(40～80)r/min	U=0.6 r/min		
		Time		(179.1～180.9)s	U=0.22s		
		Temperature		(139～201)℃	U=0.12℃		
7	*Compaction Instrument of Soil	Mass	Verification Regulation of Compaction Instrument of Soil JJG(JT)058	(2495～4505)g	U=0.8g		
		Length		Diameter:(49.5～50.5) mm	U=0.06mm		
				Falling Height:(298～502)mm	U=0.3mm		
8	*Asphalt Mixture's Marshall Compaction Test Apparatus	Mass	Verification Regulation of Asphalt Mixture's Marshall Compaction Test Apparatus JJG(JT)065	(4527～10220)g	U=0.8g		
		Length		Diameter：(68～160)mm	U=0.05mm		
				Falling Height:(455～460)mm	U=0.3 mm		
		Compaction Frequency		(55～65)times/min	U=0.3times/min		
9	Reinforced Concrete Covermeter	Length	Calibration Specification for Reinforced Concrete Covermeter and Floor lab Thickness Tester JJF 1224	(0～100)mm	U=0.23mm		
10	*Apparatus for Determining Penetration of Bituminous Materials	Mass	Calibration Specification for Apparatus for Determining Penetration of Bituminous Materials JJF1208	(99～101)g	U=0.01g		
		Temperature		(24.7～25.3)℃	U=0.1℃		
		Length		(5～50) mm	U=0.018 mm		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
11	*Asphalt Mixture Rut-depth Testing Instrument	Temperature	Calibration Specification for Asphalt Mixture Rut-depth Testing Instrument JJF(Zhe)1094	(57～63)℃	U=0.2℃		
		Length		(3～30)mm	U=0.0022mm		
				(14～240)mm	U=0.05mm		
		Pressure		(0.65～0.75)MPa	U=0.01MPa		
		Rubber hardness		(76～80)IRHD	U=0.6IRHD		
12	*Marshall Test Machine for Bituminous Mixtures	Force Value	Verification Regulation of Marshall Test Machine for Bituminous Mixtures JJG(JT)066	(5～50)kN	U_{rel}=0.4%		
		Displacement		(0.5～10)mm	U=0.03mm		
		Rate of ascent		(45～55)mm/min	U_{rel}=2.0%		
13	*Building Material Testing Machine of Constant Loading Speed	Force	Verification Regulation of Building Material Testing Machine of Constant Loading Speed JJG 1025	100N～3MN	U_{rel}=0.16%		
				3MN～5MN	U_{rel}=0.36%		
		Afterburner speed		(2.4～22.5)kN/s	U_{rel}=2.6%		
14	*Oedometers	Force value	Calibration Specification for Oedometers JJF1311	(0.5～6)kN	U_{rel}=1.0%		
		Length		(0～10)mm	U=6 μ m		
15	Measuring Instrument for Cement Bright Degumming Equipment	Frequency	Verification Regulation of Measuring Instrument for Cement Bright Degumming Equipment JJG974	(20～2000)Hz	U_{rel}=0.1%		
		Rotating		(50～30000)r/min	U_{rel}=0.2%		
		Acceleration		(0.1～100)m/s^2	U_{rel}=2.5%		
		Displacement		(0.1～10)mm	U_{rel}=1.2%		
		Time		(0.1～3600)s	U=0.12s		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
16	*Measuring Instrument for Chloride Ion Content	Concentration	C.S. of Rapid Measuring Instrument for Chloride Ion Content JJF((Jin) 10	0.001mol/L	U_{rel}=1.7%		
		Voltage		（-2000～2000）mV	U=0.02%FS		
17	*Metal Perforated Plate Test Sieves	Length	Calibration Specification for Test Sieves JJF 1175	ω：（1～4）mm	U=4 μ m	The test sieves ω：（1～4）mm is not calibrated on site	
				ω：（4～125）mm	U=0.04mm		
15、 Special measuring instruments for electronic, electrical and electrical appliances							
1	*Battery Internal Resistance Testers	Internal resistance of battery	Calibration Specification for Battery Internal Resistance Testers JJF 1620	1m Ω ～3m Ω，（1kHz）	U_{rel}=0.3%		
				3m Ω ～3k Ω，（1kHz）	U_{rel}=0.1%		
		DC Voltage		(0.1～800)V	U_{rel}=0.04%		
16、Textile and leather specific measuring instruments							
1	*Fiber Diameter Analyzer	Length	CalibrationSpecificationforfiberdiameteranalyaer JJF（spinning and weaving）065	(0～1000) μ m	U=0.36 μ m		

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