Korea Laboratory Accreditation Scheme

CERTIFICATE OF ACCREDITATION

Standard Calibration Technology Institute Co., Ltd

Accreditation No. : KC01-055

Corporation Registration No. : 135111-0067178

Address of Laboratory : 295, Sandan-ro, Danwon-gu, Ansan-si, Gyeonggi-do, Republic of Korea

Date of Initial Accreditation : September 28, 2001.

Validity of Accreditation : August 31, 2022. ~ August 30, 2026.

Scope of Accreditation : Attached Annex

Date of issue : November 10, 2023.

This calibration laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to Joint ISO-ILAC-IAF Communiqué).

CHIN CHONGWOOK

Head
Korea Laboratory Accreditation Scheme

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017 & KS Q ISO/IEC 17025:2017

STANDARD CALIBRATION TECHNOLOGY INSTITUTE CO. LTD
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CALIBRATION

Valid To : August 30, 2026. Accreditation No. : KC01-055

In recognition of the successful completion of the KOLAS evaluation process,
accreditation is granted to this laboratory to perform the following calibrations.

Field Code	Item of Calibration	on-site
102. Linear dimension		
10201	Balls	N
10206	Dial/Cylinder gauge testers	N
10207	Doctor blades	N
10208	Distance meters; electrooptic/laser ultrasonic	N
10209	End bars	N
10210	Extensometers, linear displacement transducers	Y
10211	Filler gauges	N
10212	Film applicators	N
10213	Gap gauges	N
10214	Gauge blocks, by comparison	N
10216	Height gauges / measuring machines	Y
10219	Linear Scales	N
10220	Standard measuring machines	Y
10221	Micro scales / standard scales	N
10223	Electronic micrometers	N
10224	Height micrometers, Riser blocks	N
10225	Laser scan micrometers	Y
10227	Standard tape rules, peripheral gauges	N
10228	Cylindrical plug/ pin gauges, Thread measuring wire gauges	N
10229	Radius gauges	N
10230	Cylindrical ring gauges	N
10232	Step gauges	N
10233	Taper thickness gauges	N
10234	Ultrasonic thickness gauges	Y
10235	Ultrasonic/coating thickness specimens	N
10236	Coating thickness testers	Y
103. Angle		
10304	Bevel protractors	N
10311	Plate/square /electric levels	N
10312	Auto levels	N
10320	Precision squares	N
10321	Theodolites, transits	N
10325	Jig transits	N
10326	Laser levels	N
104. Form		
10401	Form testers	Y
10404	Optical flats	N
10405	Optical parallels	N
10406	Parallel blocks	N
10407	Precision surface plates	Y
10409	Roundness measurement instruments	Y
10412	Straight edges	N
10413	Straight rules	N
105. Complex geometry		
10501	Base gauges for electric bulb	N
10502	Bench centers	N
10503	Contact coordinate measuring machines	Y
10504	Non-contact coordinate measuring machines	Y
10505	Gauge block accessories	N
10511	Measuring microscopes, Profile projectors	Y
10512	Micro measuring microscopes	Y
10514	Taper plug gauges	N
10515	Taper ring gauges	N
10517	Stylus type roughness testers	Y
10518	Socket gauges for electric bulb	N
10519	Roughness Standards/ Comparision specimens	N
10525	Thread plug gauges	N
10526	Taper thread plug gauges	N
10527	Thread ring gauges	N
10529	V-blocks, box blocks	N
106. Various dimensional		
10601	Inside/Outside/ Gear tooth calipers, Caliper gauges	Y
10603	Cylinder/bore gauges	Y
10604	Depth gauges, Depth micrometers	Y
10605	Dial/Digital gauges	Y
10608	Grind gauges	N
10609	Micro indicators, Test Indicators	Y
10610	Micrometer heads	N
10611	3-points micrometers	Y
10612	Inside micrometers	Y
10613	Outside micrometers	Y
10615	Particle counters	N
10617	Standard sieves	N
10620	Welding gauges	N
201. Mass		
20102	Auto-hopper scale balances	Y
20106	Dial Platform scale balances	Y
20109	Electric balances	Y
20112	Platform scale balances	Y
20113	Spring scale balances	Y
20116	Weights	Y
202. Force		
20202	Force measuring devices	N

Field Code	Item of Calibration	on-site
20203	Tension/Compression testing machines	Y
20204	Push-pull gauge	N
203. Torque		
20302	Torque Measuring devices	N
20303	Torque wrenches /drivers	Y
204. Pressure		
20402	Manometers	Y
20403	Pneumatic pressure ballances	N
20404	Hydraulic pressure ballances	N
20406	Absolute pressure gauges	N
20407	Blood pressure gauges	Y
20408	Compound pressure gauges	Y
20409	Differential Pressure gauges	Y
20411	Gauge pressure gauges	Y
20412	Pressure transducers /transmitters	Y
20413	Dial type vacuum gauges	Y
206. Volume		
20601	Volumetric glasswares	N
20602	Pycnometers	N
20605	Concrete Air content meters	N
20606	Piston type volume meters	N
207. Density		
20702	Liquid density meters	N
20704	Salinity meters	N
20705	Sucrose meters	N
20706	Hydrometers; density, specific gravity, alcohol, API, baume, sugar, milk, soil,salinity, LPG,etc.	N
20707	Chloride meters	N
208. Viscosity		
20801	Kinematic viscometers; capillary, etc.	N
20802	Dynamic viscometers; rotational, etc.	N
209. Fluid flow		
20901	Anemometers; hot-wire	N
20902	Anemometers; pitot tube, etc.	N
20908	Gas flowmeters; differential preesure	N
20911	Gas flowmeters; therman mass,etc.	N
20914	Gas flowmeters; ; positive displacement	N
20916	Gas flowmeters; turbine	N
20918	Gas flowmeters; ultrasonic	N
20920	Gas flowmeters; variable area	N
20922	Gas flowmeters; vortex	N
20925	Anemometers; vane, etc	N
210. Hardness		
21001	Brinell hardness testers	Y
21002	Rockwell hardness testers	Y
21003	Shore hardness testers	Y
21004	Vickers hardness testers	Y
21005	Durometer hardness testers	N
21006	Leeb hardness testers	Y
211. Impact		
21102	Charpy impact testers	Y
21103	Izod impact testers	Y
301. Time/frequency		
30104	Frequency meters /counters	Y
30106	Time interval meters/ Stop watches/Timers	Y
302. Velocity & revolution		
30201	Standard RPM generators	Y
30202	Contact-type tachometers	Y
30203	Photo tachometers/ stroboscopes	Y
30204	Speed meters	Y
401. DC voltage & current		
40101	DC ammeters	Y
40103	DC voltage/current Calibrators	Y
40104	Electrical temperature Calibrators	Y
40105	DC current shunts	Y
40106	Galvanometers/null detectors	Y
40108	DC power supplies	Y
40112	DC voltmeters	Y
40113	Static/ionic voltmeters	N
402. Resistance, Capacitance and Inductance		
40205	Earth testers	Y
40210	Insulation testers	Y
40213	Resistance bridges & Similar instruments	Y
40214	Resistance meters	Y
40215	Resistors	Y
40216	Electrical conductivity meters	N
40217	Impedance bridges/LCR meters	Y
403. AC voltage, current & power		
40301	AC ammeters	Y
40302	Clamp ammeters/voltmeters	Y
40303	AC voltage/current calibrators	Y
40304	Wattmeter calibrators	N
40305	AC current shunts	Y
40310	Power factor meters	Y
40311	AC power meters	Y
40312	AC power supplies	Y
40313	Puncture/safety testers	Y
40314	Power recorders	Y
40318	AC voltmeters	Y
404. Other DC & LF Measurements		
40401	LF amplifiers	Y
40402	DC/LF attenuators	Y
40403	Multimeter calibrators	N
40404	Oscilloscope calibrators	N
40406	Video signal generators	Y
40407	Audio distortion analyzers/meters	Y
40409	LF/Audio signal analyzers	Y
40410	Line frequency meters	Y
40411	Function generators	Y
40413	AC/DC high voltages volt meters	Y
40414	LF impulse generators	Y
40416	Leakage current testers	Y
40417	Electronic AC/DC loads	Y
40419	Analogue/Digital multimeters	Y
40420	Noise meters	Y
40421	Oscilloscopes	Y
40424	Volt/Current recorders	Y
40425	Relay test sets	Y
40426	LF signal generators	Y
40432	Transistor curve tracers	Y
40434	AC/DC high voltage generators	Y
40435	AC/DC high voltage probes	Y
40437	Telephone testers	Y
40438	Video signal analyzers	Y
405. Low frequency electric & magnetic field		
40503	Fluxmeters	N
40508	Magnetometers	N
406. RF measurements		
40602	Coaxial attenuators	Y
40605	Burst pulse generators	Y
40607	RF power meter calibrators	Y
40608	EMC transducers ; current probes, absorbing clamps,	Y
40610	Coaxial directional couplers/splitters	Y
40613	Electrostatic discharge generator	N

Field Code	Item of Calibration	on-site
40618	Line impedance stabilization networks; LISN, CDN, ISN,etc.	Y
40621	Mobile communication test sets	Y
40623	Network analyzers	Y
40626	Noise impulse simulator	Y
40635	RF power meters	Y
40636	Diode power sensors	Y
40637	Thermocouple power sensors	Y
40638	Pulse generators	Y
40640	RF signal generators	Y
40641	RF spectrum analyzers	Y
40643	Surge generators	Y
40645	RF terminations	Y
40654	Dip simulators	Y
501. Contact thermometry		
50101	Temperature generators: ovens, furnaces, isothermal liquid baths, dry-block calibrators	Y
50102	Temperature indicators/ recorders / controllers, temperature calibrators	Y
50103	Glass thermometers; liquid-in-glass, Beckmann	N
50104	Resistance thermometers; SPRT, IPRT, thermistors, etc.	Y
50105	Thermal expansion thermometers ; bimetal, gas or liquid type	Y
50106	Thermomecoules: noble metal, base metal, pure metal, special type, etc.	Y
50107	Temperature transducers	Y
502. non contact thermometry		
50204	Standard radiation thermometers	N
50205	Thermal image apparatus	N
50207	Others; ear thermometers. Etc.	N
503. Humidity		
50302	Relative humidity hygrometers; polimer thinfilm, hair, etc.	N
50303	Psychrometers; assmann ventilated, PRT type, etc.	N
50304	Temperature humidity recorders; Hygrothermograph, etc.	N
50305	Transducers; dew-point/ relative humidity	N
50306	Humidity generators; two-pressure, two-temperature, flow mixing humidity generator, constant temperature and humidity chamber, etc.	Y
504. Moisture		
50401	Cereal moisture meters	N
50402	Wood moisture meters	N
601. Sound in air		
60102	Sound Calibrators ; Sound level calibrators Pistonphones, Multifunction acoustic calibrators	N
60104	Microphones	N
60106	Sound level meters	N
603. Vibration		
60301	Vibration Calibrators	N
60302	Vibration transducers	N
60303	Vibration measuring instruments	N
701. Photometry		
70101	Illuminance meters	N
70102	Luminance meters	N
702. Properties of detectors & sources		
70204	Colorimeters;source color	N
70213	Display color analyzer; luminance, chromaticity, white balance, etc.)	N
70219	UV irradiance meters	N
703. Properties of materials		
70301	Colorimeters; material color	Y
70304	Color standard tiles	N
70306	Gloss meters	Y
70307	Gloss standard plates	Y
70308	Haze meters	Y
70309	Haze standard plates	N
70312	Lens meters	Y
70315	Optical densitometers	Y
70316	Optical filters	N
70320	Diffuse-reflectance meters	Y
70321	Refractometers	N
70323	Transmittance meters	Y
70325	Spectrophotometers including FT-IR spectrophotometers	Y
70326	Wavelength reference materials ; absorption cell, bandpass filter, etc.	N
901.Chemical analysis		
90103	Gas analyzers	Y
90199	Others;	
	pH meter	N
	Electrical conductivity meter	N
	Turbidity meter	N

Note

1. This laboratory provides calibration services in permanent standard laboratory and at on-site.
2. Laboratory conducts on-site calibration should meet requirements of KOLAS-SR-007.
3. On-site calibration is allowed to items with marking 'Y', not allowed to items with marking 'N'.
4. Measurement uncertainty normally is quoted as an expanded uncertainty at a coverage probability of 95 %, which usually requires the use of a coverage factor of k=2, It expresses the lowest uncertainty of measurement that can be provided by accredited calibration laboratories in normal conditions.
5. Due to the calibration environment such as reference standards or customers' facilities, it is note that uncertainty of measurement on a calibration certificate may be expressed larger than measurement uncertainty on scope of accreditation in general.

102. Linear dimension

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Balls	10201	(0 ~ 100) mm	$\sqrt{0.57^2 + 0.003\,7^2 \times l^2}$ μm (l unit: mm)	Standard measuring machines, Gauge blocks /SCTI-I-102-19
Dial/Cylinder gauge testers	10206	(0 ~ 25) mm	$\sqrt{0.97^2 + 0.003^2 \times l^2}$ μm (l unit: mm)	Gauge blocks, Optical flats, Precision surface plates, Monochromatic Light Source, Electronic micrometers, /SCTI-I-102-05
Doctor blades	10207	(0 ~ 10) mm	1.9 μm	Height micrometers, Electronic micrometers, Precision surface plates /SCTI-I-102-20
Distance meters ; electrooptic / laser ultrasonic	10208	(0 ~ 50) m	$\sqrt{1.4^2 + 0.02^2 \times l^2}$ mm (l unit: m)	Laser interferometers /SCTI-I-102-24
End bars	10209	(25 ~ 600) mm	$\sqrt{1.1^2 + 0.003^2 \times l^2}$ μm (l unit: mm)	Gauge blocks, Precision surface plates, Electronic micrometers, /SCTI-I-102-08
Extensometers, linear displacement transducers	10210	(0 ~ 100) mm (100 ~ 300) mm (300 ~ 1 000) mm	$\sqrt{0.22^2 + 0.004^2 \times l^2}$ μm (l unit: mm) $\sqrt{0.79^2 + 0.003^2 \times l^2}$ μm (l unit: mm) $\sqrt{3.4^2 + 0.003^2 \times l^2}$ μm (l unit: mm)	Gauge blocks, Long gauge blocks, /SCTI-I-102-01
Filler gauges	10211	(0.01 ~ 5) mm	0.33 μm	Gauge blocks, Optical flats, Electronic micrometers /SCTI-I-102-12
Film applicators	10212	(0 ~ 10) mm	1.9 μm	Height micrometers, Electronic micrometers, surface plates /SCTI-I-102-21
Gap gauges	10213	(1 ~ 200) mm	$\sqrt{3.0^2 + 0.002\,7^2 \times l^2}$ μm (l unit: mm)	Height micrometers, Electronic micrometers, surface plates /SCTI-I-102-26

102. Linear dimension

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Gauge blocks,by comparison	10214	(0 ~ 100) mm	$\sqrt{72^2 + 2.8^2 \times l^2}$ nm (l unit: mm)	Gauge blocks, Gauge block comparators /SCTI-I-102-10
Height gauges / measuring machines	10216	(0 ~ 600) mm	$\sqrt{0.74^2 + 0.003\,0^2 \times l^2}$ μm (l unit: mm)	Gauge blocks, Long gauge blocks, plates, Step gauges, Test indicators /SCTI-I-102-02
		(600 ~ 1 000) mm	$\sqrt{1.0^2 + 0.003\,0^2 \times l^2}$ μm (l unit: mm)	
Linear Scales	10219	(0 ~ 400) mm	0.001 mm	Laser interferometers /SCTI-I-102-25
		(400 ~ 1 000) mm	0.002 mm	
		(1 000 ~ 1 600) mm	0.003 mm	
		(1 600 ~ 2 000) mm	0.004 mm	
Standard measuring machines	10220	(0 ~ 500) mm	$\sqrt{0.4^2 + 0.003\,9^2 \times l^2}$ μm (l unit: mm)	Gauge blocks, Optical flats, Optical parallels, Monochromatic light /SCTI-I-102-22
Micro scales/standard scales Accuracy gradation	10221	(0 ~ 600) mm	$\sqrt{0.30^2 + 0.000\,94^2 \times l^2}$ μm (l unit: mm)	Laser interferometer, Non-contact coordinate measuring machines /SCTI-I-102-26
Electronic micrometers	10223	(0 ~ 2) mm	0.3 μm	Gauge blocks, Optical flats, /SCTI-I-102-07
Height micrometers, Riser blocks	10224			Gauge blocks, Precision surface plates, Long gauge blocks, Electronic micrometers /SCTI-I-102-13
Block calibration		(0 ~ 600) mm	$\sqrt{0.76^2 + 0.003\,0^2 \times l^2}$ μm (l unit: mm)	
Head calibration		(0 ~ 25) mm	0.75 μm	
Laser scan micrometers	10225	(0.5 ~ 10) mm	0.3 μm	Pin gagues, Cylindrical plug gauges /SCTI-I-102-23
		(10 ~ 100) mm	0.4 μm	
Standard tape rules, peripheral gauges	10227	(0 ~ 30) m	$\sqrt{0.33^2 + 0.003\,4^2 \times l^2}$ mm (l unit: m)	Standard type measure /SCTI-I-102-06

102. Linear dimension

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Cylindrical plug/pin gauges, Thread measuring wire gauges	10228			Gauge blocks, Standard measuring
Cylindrical plug/pin gauges		(0.1 ~ 100) mm	$\sqrt{0.44^2 + 0.005^2 \times l^2}$ μm (l unit: mm)	machines /SCTI-I-102-14
Thread measuring wire gauges		(0.1 ~ 4) mm	$\sqrt{0.41^2 + 0.005^2 \times l^2}$ μm (l unit: mm)	
Radius gauges	10229	(0 ~ 50) mm	2 μm	Measuring microscopes, /SCTI-I-102-09
Cylindrical ring gauges	10230	(1 ~ 100) mm	$\sqrt{1.2^2 + 0.004^2 \times l^2}$ μm (l unit: mm)	Standard measuring machines, Cylindrical ring gauges /SCTI-I-102-15
Step gauges	10232	(0 ~ 670) mm	$\sqrt{1.4^2 + 0.004\,2^2 \times l^2}$ μm (l unit: mm)	Gauge blocks, Precision surface plates, Long gauge blocks, Electronic micrometers, /SCTI-I-102-11
Taper thickness gauges	10233	(0 ~ 100) mm	2 μm	Measuring microscopes /SCTI-I-102-16
Ultrasonic thickness gauges	10234	(0 ~ 20) mm (20 ~ 100) mm	4 μm 0.01 mm	Standard specimen /SCTI-I-102-03
Ultrasonic/coating thickness specimens	10235			Gauge blocks,
thickness specimens		(0 ~ 26) mm	$\sqrt{0.44^2 + 0.010^2 \times l^2}$ μm	Standard measuring
		Bottom surface	0.6 μm	/SCTI-I-102-17
Ultrasonic thickness specimens		(0.1 ~ 300) mm	$\sqrt{0.68^2 + 0.003^2 \times l^2}$ μm (l unit: mm)	Gauge blocks, Precision surface plates, Electronic micrometers /SCTI-I-102-18
Coating thickness testers	10236	(0 ~ 200) μm (200 ~ 500) μm (0.5 ~ 1.5) mm (1.5 ~ 5) mm (5 ~ 13) mm (13 ~ 26) mm	1.2 μm 1.3 μm 2 μm 7 μm 19 μm 34 μm	Standard specimen /SCTI-I-102-04

103. Angle

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Bevel protractors	10304			Angle gauge blocks, Electronic micrometers, Precision surface plates /SCTI-I-103-01
Angle		(0 ~ 90)°	1′	
Straightness		-	2 μm	
Plate/Square/Electric levels	10311			Fine angle generators, Electronic micrometers, Squareness testers, Precision surface plates, Gauge blocks /SCTI-I-103-02
Angle		(0 ~ 2) mm/m	1.6 μm/m	
		(2 ~ 9.7) mm/m	7.1 μm/m	
Flatness of Bottom surface		(0 ~ 300) mm	0.8 μm	
Squareness		(0 ~ 300) mm	7 μm/m	
Auto levels	10312			Calibration system for survey instruments, Indexing tables, Optical wedges, Standard scale /SCTI-I-103-04
Azimuth angle		(0 ~ 360)°	14′	
Line of sight straightness		(0.6 ~ ∞) m	0.06 mm	
Precision squares	10320			Squareness testers, Electronic micrometers, Precision surface plates /SCTI-I-103-03
Squareness		(0 ~ 450) mm	2.1 μm	
Parallelism		(0 ~ 450) mm	0.9 μm	
Theobolites, transits	10321			Calibration system for survey instruments, Indexing tables, Optical wedges /SCTI-I-103-05
Azimuth angle		(0 ~ 360)°	2″	
Elevation angle				
Angle of Elevation 30°		(0 ~ 30)°	5″	
Angle of depression 45°		(0 ~ 45)°	5″	
Line of sight straightness		(0.6 ~ ∞) m	0.06 mm	
Jig transits	10325			Calibration system for survey instruments, Indexing tables, Optical wedges Standard scale /SCTI-I-103-06
Azimuth angle		(0 ~ 360)°	1″	
Elevation angle				
Angle of Elevation 30°		(0 ~ 30)°	6″	
Angle of depression 45°		(0 ~ 45)°	6″	
Line of sight straightness		(0.6 ~ ∞) m	0.06 mm	
Optical Micrometer		±2.794 mm	4 μm	

103. Angle

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Laser levels	10326			Laser level calibration device camera /SCTI-I-103-07
Angle between horizontal and vertical lines		(0 ~ 90)°	0.11°	
Horizontal angle and direction of progress of horizontal line		(0 ~ 2) m	0.11 mm	
Left/right horizontal angle of horizontal line		±(0 ~ 45)°	0.04 mm	

104. Form

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Form testers	10401			Form Standard specimen, Angle Standard specimen Gauge blocks, Angle gauge blocks /SCTI-I-104-02
Width		(0 ~ 90) mm	1.0 μm	
Length		(0 ~ 30) mm	0.12 μm	
Angle		(0 ~ 60)°	2″	
Optical flats	10404	Ø(10 ~ 60) mm	0.10 μm	Optical flats, Monochromatic Light Source, /SCTI-I-104-03
Optical parallels	10405			Optical flats, Monochromatic Light Source, Gauge block comparators /SCTI-I-104-04
Flatness		Ø(10 ~ 50) mm	0.08 μm	
Parallelism		Ø(10 ~ 50) mm	0.09 μm	
Parallel blocks	10406			Electronic micrometers, Precision surface plates, /SCTI-I-104-05
Flatness		(0 ~ 500) mm	1.1 μm	
Parallelism		(0 ~ 500) mm	1.1 μm	
Precision surface plates	10407	(1 200 × 900) mm Less than	2.2 μm	Electric levels /SCTI-I-104-01
		(2 000 × 1 500) mm Less than	3.7 μm	
		(3 500 × 2 000) mm Less than	5.4 μm	
		(4 000 mm× 4 000 mm) Less than	7.6 μm	
Roundness measurement instruments	10409			Standard hemisphere, Standard specimens, Cylindrical squares, Optical flats /SCTI-I-104-06
Detector		(0 ~ 32) μm	0.50 μm	
Spindle		360°	0.017 μm	
Axis		360°	0.10 μm	
Verticality column		(0 ~ 250) mm	1.0 μm	

104. Form

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Straight edges	10412			Electric Micrometer,
Straightness		(0 ~ 2 000) mm	2.7 μm	Precision surface plates,
Parallelism		(0 ~ 2 000) mm	2.6 μm	/SCTI-I-104-07
Straight rules	10413	(0 ~ 5 000) mm	$\sqrt{0.13^2 + 0.003\,4^2 \times l^2}$ mm (l unit: m)	Standard type measure /SCTI-I-104-08

105. Complex geometry

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Base gauge for electric bulb	10501			Standard measuring
Pass, Stop		(1 ~ 50) mm	$\sqrt{1.1^2 + 0.004\,7^2 \times l^2}$ μm (l unit: mm)	machines, Form testers,
Screw		(1 ~ 50) mm	$\sqrt{4.0^2 + 0.002\,7^2 \times l^2}$ μm (l unit: mm)	Gauge blocks, 3-points micrometers, Cylindrical ring gauges /SCTI-I-105-12
Pitch		(0 ~ 10) mm	1.2 μm	
Bench center	10502			Test bars,
center parallelism		(0 ~ 400) mm	2.2 μm	Electronic micrometers,
Plan view of the bed sureface parallelism		-	1.2 μm	Precision surface plates, /SCTI-I-105-15
Height difference between both center		(0 ~ 400) mm	2.2 μm	
Contact coordinate measuring machines	10503			Step gauges, Square /SCTI-I-105-01
Accuracy instructions		(0 ~ 1 010) mm	$\sqrt{0.52^2 + 0.003\,2^2 \times l^2}$ μm (l unit: mm)	
Space diagonal		(0 ~ 1 010) mm	$\sqrt{0.52^2 + 0.003\,2^2 \times l^2}$ μm (l unit: mm)	
Squareness		(0 ~ 500) mm	2″	

105. Complex geometry

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Non-contact coordinate measuring machines	10504	(0 ~ 500) mm	$\sqrt{0.62^2 + 0.003^2 \times l^2}$ μm (l unit: mm)	Standard scale, Gauge blocks /SCTI-I-105-02
		(500 ~ 1 000) mm	$\sqrt{2.0 + 0.003^2 \times l^2}$ μm (l unit: mm)	
Z Axis		(0 ~ 100) mm	$\sqrt{0.12^2 + 0.004^2 \times l^2}$ μm (l의 단위 : mm)	
Gauge Block Accessories	10505			Gauge blocks, Measuring microscope, Gauge block comparator, Electronic micrometer, /SCTI-I-105-17
Round type jaw		(0 ~ 20) mm	$\sqrt{0.56^2 + 0.003\,9^2 \times l^2}$ μm (l unit: mm)	
A type Parallel jaw		(0 ~ 20) mm	$\sqrt{0.35^2 + 0.003\,9^2 \times l^2}$ μm (l unit: mm)	
B type Parallel jaw		(0 ~ 20) mm	0.14 μm	
Scriber point		(0 ~ 20) mm	0.14 μm	
Center point		(0 ~ 20) mm	0.23 μm	
Base block		(0 ~ 35) mm	$\sqrt{1.2^2 + 0.011^2 \times l^2}$ μm (l unit: mm)	
Flatness(close-contact plane)		(0 ~ 20) mm	0.13 μm	
Parallelism (Parallel jaw)		(0 ~ 150) mm	0.69 μm	
Measuring microscopes, Profile projectors	10511			Standard scale, Angle gauge blocks /SCTI-I-105-03
Measuring microscopes				
Transfer accuracy		(0 ~ 500) mm	$\sqrt{0.44^2 + 0.003^2 \times l^2}$ μm (l unit: mm)	
Squareness		(0 ~ 500) mm	2.4 μm	
Angle		(0 ~ 360) °	0.6′	
Profile projectors				Standard scale, Square /SCTI-I-105-04
Workstage transfer accuracy		(0 ~ 300) mm	4 μm	
Magnification error		(0 ~ 300) mm	0.024 %	
Squareness		(0 ~ 300) mm	3 μm	
Angle		(0 ~ 360) °	2′	

105. Complex geometry

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Micro measuring microscopes	10512	(0 ~ 20) mm	6 μm	Standard scale /SCTI-I-105-05
Taper plug gauges	10514			Standard measuring
Diameter of small part		(0.5 ~ 100) mm	2.6 μm	machines, Pin gauges,
Diameter of large part		(0.5 ~ 100) mm	2.9 μm	Height micrometers,
Height		(0.1 ~ 100) mm	1.8 μm	Electronic micrometers,
angle		(0 ~ 90) °	35″	Precision surface plates /SCTI-I-105-07
Taper ring gauges	10515			Balls,
Diameter of small part		(3 ~ 70) mm	1.5 μm	Precision surface plates,
Diameter of large part		(3 ~ 70) mm	2.2 μm	Depth micrometers,
angle		(0 ~ 90) °	13″	Electronic micrometers,
Height		(0 ~ 50) mm	2.0 μm	Height micrometers /SCTI-I-105-08
Stylus type roughness testers	10517			Roughness standard
Ra		(0 ~ 3) μm	70 nm	specimens, Step blocks
		(3 ~ 6) μm	52 nm	/SCTI-I-105-06
Rz		(0 ~ 10) μm	0.67 μm	
		(10 ~ 24) μm	0.24 μm	
RSm		(0 ~ 200) μm	2.0 μm	
H		(0 ~ 10) μm	0.20 μm	
Socket gauges for electric bulb	10518			Standard measuring machines,
Pass, Stop		(1 ~ 50) mm	$\sqrt{0.45^2 + 0.005^2 \times l^2}$ μm (l unit: mm)	Form testers, Gauge blocks
Screw		(1 ~ 50) mm	$\sqrt{0.44^2 + 0.005^2 \times l^2}$ μm (l unit: mm)	/SCTI-I-105-13
Pitch		(0 ~ 10) mm	1.2 μm	
Roughness Standards/ Comparision specimens	10519			Stylus type roughness testers Roughness Standards
Ra		(0 ~ 0.4) μm	0.008 μm	/SCTI-I-105-16
		(0.4 ~ 6.0) μm	0.055 μm	
Rz		(0 ~ 1.5) μm	0.053 μm	
		(1.5 ~ 24) μm	0.37 μm	
Rsm		(0 ~ 120) μm	1.2 μm	

105. Complex geometry

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Thread plug gauges	10525			Standard measuring
Effective diameter		(0.5 ~ 100) mm	$\sqrt{1.4^2 + 0.004\,7^2 \times l^2}$ μm (l unit: mm)	machines, Form testers,
Outer diameter		(0.5 ~ 100) mm	$\sqrt{0.56^2 + 0.004\,8^2 \times l^2}$ μm (l unit: mm)	Electronic micrometers, Thread measuring wire
Pitch		(0.1 ~ 4) mm	1.1 μm	gauges
Half-angle of thread		(0 ~ 60) °	2″	/SCTI-I-105-09
Taper thread plug gauges	10526			Standard measuring
Outer diameter of small part		(0.5 ~ 100) mm	1.5 μm	machines,
Outer diameter of large part		(0.5 ~ 100) mm	3.2 μm	Form testers,
Effective diameter of small part		(0.5 ~ 100) mm	1.9 μm	Thread measuring wire
Effective diameter of large part		(0.5 ~ 100) mm	2.6 μm	gauges
Pitch		(0.1 ~ 4) mm	1.2 μm	Height micrometers,
Half-angle of thread		(0 ~ 45) °	2″	Electronic micrometers,
Length of gauges		(0.1 ~ 40) mm	2.1 μm	Gauge blocks
Length of notch		(0.1 ~ 10) mm	2.9 μm	/SCTI-I-105-14
Thread ring gauges	10527			Standard measuring
Inner diameter		(3 ~ 100) mm	$\sqrt{4.0^2 + 0.002\,7^2 \times l^2}$ μm (l unit: mm)	machines, Balls, Cylindrical ring
Effective diameter		(3 ~ 100) mm	$\sqrt{2.1^2 + 0.006\,6^2 \times l^2}$ μm (l unit: mm)	gauges, 3-points micrometers,
Pitch		(0.1 ~ 4) mm	1.2 μm	Form testers
Half-angle of thread		(0 ~ 45) °	35″	/SCTI-I-105-10
V-blocks, box blocks	10529			Precision surface,
V-blocks				Test bar,
Flatness of undersurface		(300 × 300 × 300) mm	0.5 μm	Electronic micrometers
				/SCTI-I-105-11
Flatness of V surface		(300 × 300 × 300) mm	0.5 μm	
Parallelism between the undersurface and the cylinder on the V surface		(300 × 300 × 300) mm	2.1 μm	
Gradient on the undersurface of V-groove		(300 × 300 × 300) mm	0.4 μm	

105. Complex geometry

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
V-blocks, box blocks	10529			Precision surface,
box blocks				Test bar,
Parallelism between side and the cylinder on the V surface		(300 × 300 × 300) mm	2.1 μm	Electronic micrometers /SCTI-I-105-11
Mutual height difference of V surface for a pair of V-blocks		(300 × 300 × 300) mm	1.1 μm	
Squareness of side surface for the undersurface		(300 × 300 × 300) mm	2.2 μm	
Parallelism of upper surface for the undersurface		(300 × 300 × 300) mm	0.8 μm	
Parallelism between the undersurface and the cylinder on the V surface		(300 × 300 × 300) mm	2.1 μm	

106. Various dimensional

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Inside/Outside/	10601			Gauge blocks,
Gear tooth calipers,				Gauge block accessories
Caliper gauges				Long gauge blocks,
Caliper gauges		(0 ~ 15) mm	3 μm	/SCTI-I-106-01
		(15 ~ 300) mm	0.01 mm	
Inside/outside calipers		(0 ~ 3 000) mm	$\sqrt{8.9^2 + 0.003^2 \times l^2}$ μm (l unit: mm)	Gauge blocks, Step gauges, Long gauge blocks, Gauge block accessories /SCTI-I-106-02
Cylinder/bore gauges	10603	(0 ~ 800) mm	1.5 μm	Dial/cylinder gauge testers, Gauge blocks, Gauge block accessories, Long gauge blocks /SCTI-I-106-03

106. Various dimensional

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Depth gauges, Depth micrometers	10604			
Depth gauges		(0 ~ 50) mm	$\sqrt{1.1^2 + 0.005\,0^2 \times l^2}$ μm (l unit: mm)	Gauge blocks, Precision surface plates
		(50 ~ 1 000) mm	$\sqrt{6.0^2 + 0.003\,4^2 \times l^2}$ μm (l unit: mm)	Long gauge blocks /SCTI-I-106-04
Depth micrometers		(0 ~ 300) mm	$\sqrt{1.6^2 + 0.004\,2^2 \times l^2}$ μm (l unit: mm)	Gauge blocks, Precision surface plates Long gauge blocks /SCTI-I-106-08
Dial/Digital gauges	10605	(0 ~ 50) mm (50 ~ 100) mm	1.2 μm 2.3 μm	Dial/cylinder gauge testers, Gauge blocks, /SCTI-I-106-05
Grind gauges Depth of inclined plane Straightness	10608	(0 ~ 1) mm (0 ~ 150) mm	3.2 μm 1.3 μm	Height micrometers, Electronic micrometers, Precision surface plates /SCTI-I-106-16
Micro indicators, Test Indicators	10609			
Micro indicators		(0 ~ 0.1) mm (0.1 ~ 2) mm	1.2 μm 6 μm	Dial/cylinder gauge testers /SCTI-I-106-06
Test Indicators		(0 ~ 1) mm (1 ~ 1.6) mm	1.2 μm 6 μm	/SCTI-I-106-11
Micrometer heads	10610	(0 ~ 100) mm	$\sqrt{0.8^2 + 0.004^2 \times l^2}$ μm (l unit: mm)	Gauge blocks, Precision surface plates, Optical flats, Monochromatic Light Source, Electronic micrometers /SCTI-I-106-14
3-points micrometers	10611	(2 ~ 100) mm (100 ~ 200) mm	2 μm 3 μm	Ring gauges /SCTI-I-106-12
Inside micrometers Bar type micrometers	10612	(50 ~ 300) mm	$\sqrt{0.8^2 + 0.004\,2^2 \times l^2}$ μm (l unit: mm)	Gauge blocks, Gauge block accessories, Long gauge blocks /SCTI-I-106-07
		(300 ~ 3 000) mm	$\sqrt{1.9^2 + 0.004\,6^2 \times l^2}$ μm (l unit: mm)	

106. Various dimensional

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Inside micrometers	10612			Gauge blocks,
Inside micrometers		(5 ~ 300) mm	$\sqrt{0.8^2 + 0.004\,2^2 \times l^2}$ μm (l unit: mm)	Gauge block accessories, Long gauge blocks /SCTI-I-106-09
Outside micrometers	10613	(0 ~ 25) mm	$\sqrt{0.1^2 + 0.003\,9^2 \times l^2}$ μm (l unit: mm)	Gauge blocks, Optical flats, Long gauge blocks, Optical parallels,
		(25 ~ 2 000) mm	$\sqrt{1.4^2 + 0.003\,6^2 \times l^2}$ μm (l unit: mm)	Monochromatic Light Source, /SCTI-I-106-10
Particle Counters	10615			
Flow rate		(0 ~ 2.832) L/min	0.016 L/min	CRM Standard, Flowmeter
		(2.832 ~ 28.32) L/min	0.09 L/min	Particle Counter
		(28.32 ~ 50) L/min	0.15 L/min	SCTI-I-106-17
		(50 ~ 100) L/min	0.31 L/min	
Threshold voltage		(0 ~ 1) V	0.47 mV	
Counting efficiency		(10 ~ 110) %		
		0.1 μm	4.4 %	
		0.15 μm	4.7 %	
		0.2 μm	4.8 %	
		0.3 μm	2.4 %	
		0.5 μm	2.3 %	
		1.0 μm	4.7 %	
Standard sieves	10617	(0.01 ~ 70) mm	6 μm	Measuring microscopes /SCTI-I-106-13
Welding gauges	10620			Measuring microscopes,
Height, Depth		(0 ~ 50) mm	0.1 mm	Non-contact coordinate
Ruler		(0 ~ 100) mm	0.05 mm	measuring machines,
Point thickness		(0 ~ 20) mm	0.1 mm	Gauge blocks,
Angle		(0 ~ 90)°	0.2°	surface plates,
Taper thickness gauges		(0 ~ 20) mm	0.05 mm	pin gauges, V-blocks /SCTI-I-106-15

201. Mass

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Auto-hopper scale balances	20102	(0 ~ 20) kg	5 g	Standard Weight /SCTI-I-201-04
		(20 ~ 50) kg	0.01 kg	
		(50 ~ 500) kg	0.05 kg	
		(500 ~ 1 000) kg	0.1 kg	
		(1 000 ~ 2 000) kg	0.2 kg	
Dial platform scale balances	20106	(0 ~ 30) kg	0.02 kg	Standard Weight /SCTI-I-201-06
		(30 ~ 600) kg	0.03 kg	
		(60 ~ 100) kg	0.1 kg	
Electric balances	20109	(0 ~ 5) g	15 µg	Standard Weight /SCTI-I-201-01
		(5 ~ 20) g	26 µg	
		(20 ~ 200) g	0.08 mg	
		(200 ~ 500) g	0.2 mg	
		(500 ~ 3 000) g	0.8 mg	
		(3 ~ 5) kg	2 mg	
		(5 ~ 10) kg	11 mg	
		(10 ~ 30) kg	16 mg	
		(30 ~ 60) kg	76 mg	
		(60 ~ 150) kg	2 g	
		(150 ~ 300) kg	4 g	
		(300 ~ 600) kg	0.03 kg	
		(600 ~ 1 500) kg	0.06 kg	
		(1 500 ~ 3 000) kg	0.3 kg	
		(3 000 ~ 5 000) kg	1.0 kg	
Platform scale balances	20112	(0 ~ 50) kg	0.01 kg	Standard Weight /SCTI-I-201-03
		(50 ~ 200) kg	0.05 kg	
		(200 ~ 500) kg	0.1 kg	
		(500 ~ 1 000) kg	0.23 kg	
Spring scale balances	20113	(0 ~ 1) kg	1 g	Standard Weight /SCTI-I-201-02
		(1 ~ 10) kg	3 g	
		(10 ~ 50) kg	0.03 kg	
		(50 ~ 100) kg	0.1 kg	
Weights	20116	(1 mg ~ 20 kg)	(Class E_2)	Standard Weight, Mass Comparator /SCTI-I-201-05
		1 mg	1.5 µg	
		2 mg	1.5 µg	
		5 mg	1.5 µg	
		10 mg	1.6 µg	
		20 mg	1.7 µg	
		50 mg	2.0 µg	
		100 mg	2.6 µg	

201. Mass

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Weights	20116	(1 mg ~ 20 kg)	(Class E_2)	Standard Weight,
		200 mg	3.2 μg	Mass Comparator
		500 mg	3.8 μg	/SCTI-I-201-05
		1 g	4.4 μg	
		2 g	5.1 μg	
		5 g	6.9 μg	
		10 g	8 μg	
		20 g	11 μg	
		50 g	0.03 mg	
		100 g	0.03 mg	
		200 g	0.05 mg	
		500 g	0.2 mg	
		1 kg	0.3 mg	
		2 kg	0.5 mg	
		5 kg	2 mg	
		10 kg	3 mg	
		20 kg	6 mg	

202. Force

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Force measuring devices	20202	(1 ~ 10) N	1.9×10^{-4}	Weight,
		(10 ~ 20) N	1.9×10^{-4}	Deadwight force calibration machine,
		(20 ~ 50) N	9.5×10^{-5}	Hydraulic force calibration machine
		(50 ~ 200) N	5.9×10^{-5}	/SCTI-I-202-03
		(200 ~ 500) N	6.6×10^{-5}	
		(0.5 ~ 1) kN	7.4×10^{-5}	
		(1 ~ 5) kN	4.2×10^{-5}	
		(5 ~ 10) kN	6.8×10^{-5}	
		(10 ~ 20) kN	3.9×10^{-5}	
		(20 ~ 50) kN	5.0×10^{-4}	
		(50 ~ 100) kN	4.5×10^{-4}	
		(100 ~ 300) kN	3.2×10^{-4}	
		(300 ~ 500) kN	4.1×10^{-4}	
		(500 ~ 1 000) kN	3.8×10^{-4}	

202. Force

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Tension/Compression testing machines	20203			Force measuring devices, Weight
Compression		(0.1 ~ 50) N	5.4×10^{-4}	/SCTI-I-202-02
		(50 ~ 100) N	1.4×10^{-3}	
		(100 ~ 200) N	1.4×10^{-3}	
		(200 ~ 500) N	1.3×10^{-3}	
		(0.5 ~ 1) kN	1.4×10^{-3}	
		(1 ~ 2) kN	1.3×10^{-3}	
		(2 ~ 5) kN	1.4×10^{-3}	
		(5 ~ 10) kN	1.3×10^{-3}	
		(10 ~ 30) kN	1.5×10^{-3}	
		(30 ~ 50) kN	1.4×10^{-3}	
		(50 ~ 100) kN	1.5×10^{-3}	
		(100 ~ 300) kN	1.5×10^{-3}	
		(300 ~ 500) kN	1.5×10^{-3}	
		(500 ~ 1 000) kN	1.5×10^{-3}	
		(1 ~ 3) MN	1.8×10^{-3}	
tension		(0.1 ~ 50) N	5.4×10^{-4}	
		(50 ~ 100) N	1.6×10^{-3}	
		(100 ~ 200) N	1.4×10^{-3}	
		(200 ~ 500) N	1.4×10^{-3}	
		(0.5 ~ 1) kN	1.4×10^{-3}	
		(1 ~ 2) kN	1.3×10^{-3}	
		(2 ~ 5) kN	1.4×10^{-3}	
		(5 ~ 10) kN	1.5×10^{-3}	
		(10 ~ 30) kN	1.6×10^{-3}	
Push-pull gauge	20204	(0.020 ~ 0.098) N	2.9×10^{-2}	Standard Weight Deadwight force calibration machine
		(0.098 ~ 1) N	8.3×10^{-3}	
		1 N ~ 1 kN	1.0×10^{-3}	/SCTI-I-202-01
		(1 ~ 5) kN	5.8×10^{-4}	

203. Torque

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Torque Measuring devices	20302	(0.01 ~ 0.1) N·m	2.4×10^{-3}	Torque ARM, Standard Weight, Deadweight Torque Calibration Machine /SCTI-I-203-01
		(0.1 ~ 1) N·m	2.0×10^{-3}	
		(1 ~ 5) N·m	6.3×10^{-4}	
		(5 ~ 10) N·m	4.7×10^{-4}	
		(10 ~ 50) N·m	1.7×10^{-4}	
		(50 ~ 100) N·m	2.8×10^{-4}	
		(100 ~ 200) N·m	3.0×10^{-4}	
		(200 ~ 500) N·m	2.6×10^{-4}	
		(500 ~ 1 000) N·m	3.0×10^{-4}	
		(1 000 ~ 2 000) N·m	1.6×10^{-4}	
Torque wrenches /drivers	20303	(6 ~ 60) N·cm	1.0×10^{-2}	Torque wrenches /drivers Calibrator /SCTI-I-203-02
		(60 ~ 600) N·cm	5.8×10^{-3}	
		(6 ~ 36) N·m	5.7×10^{-3}	
		(36 ~ 100) N·m	6.2×10^{-3}	
		(100 ~ 360) N·m	7.7×10^{-3}	
		(360 ~ 500) N·m	5.1×10^{-3}	
		(500 ~ 1 000) N·m	3.3×10^{-3}	
		(1 ~ 2) kN·m	3.8×10^{-3}	

204. Pressure

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Manometers	20402	(0 ~ 5) kPa	1.2×10^{-2}	Deadweight Piston Gauges, Digital Pressure Gauge /SCTI-I-204-01
		(5 ~ 15) kPa	1.2×10^{-2}	
Pneumatic pressure ballances	20403	(0.01 ~ 7) MPa	6.3×10^{-5}	Deadweight Piston Gauges /SCTI-I-204-10
Hydraulic pressure ballances	20404	(2 ~ 100) MPa	6.9×10^{-5}	Deadweight Piston Gauges /SCTI-I-204-11
Absolute pressure gauges Pressure gauges, absolute ; Dial, Digital	20406	(5 ~ 800) kPa abs.	7.4×10^{-5}	Deadweight Piston Gauges Digital Pressure Gauge /SCTI-I-204-07
		(0.8 ~ 7) MPa abs.	1.1×10^{-4}	
Blood pressure gauges	20407	(0 ~ 40) kPa	9.7×10^{-3}	Digital Pressure Gauge /SCTI-I-204-12
Compound pressure gauges	20408	(-0.1 ~ 7) MPa	1.2×10^{-3}	Deadweight Piston Gauges, Digital Pressure Gauge /SCTI-I-204-08

204. Pressure

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Differential Pressure gauges Dial, Digital	20409	(0 ~ 15) kPa (0.015 ~ 2) MPa	9.4×10^{-5} 7.5×10^{-5}	Deadweight Piston Gauges, Digital Pressure Gauge /SCTI-I-204-05
Gauge pressure gauges Dial, Digital, Recoder	20411	(0 ~ 15) kPa (0.015 ~ 7) MPa (7 ~ 100) MPa (100 ~ 500) MPa	6.6×10^{-5} 1.1×10^{-4} 7.2×10^{-5} 2.0×10^{-4}	Deadweight Piston Gauges, Digital Pressure Gauge /SCTI-I-204-02
Pressure transducers /transmitters	20412	(5 ~ 800) kPa abs. (0.8 ~ 7) MPa abs. (0 ~ 15) kPa (0.015 ~ 7) MPa (7 ~ 100) MPa (100 ~ 500) MPa	3.9×10^{-5} 7.3×10^{-5} 3.7×10^{-4} 1.4×10^{-4} 8.6×10^{-5} 2.6×10^{-4}	Deadweight Piston Gauges, Digital Pressure Gauge Digital Multimeter /SCTI-I-204-03
Dial type vacuum gauges	20413	(-100 ~ 0) kPa	6.0×10^{-4}	Deadweight Piston Gauges, Digital Pressure Gauge /SCTI-I-204-09

206. Volume

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Volumetric glasswares	20601	(0 ~ 0.5) mL (0.5 ~ 1) mL (1 ~ 2) mL (2 ~ 5) mL (5 ~ 10) mL (10 ~ 25) mL (25 ~ 50) mL (50 ~ 100) mL (100 ~ 200) mL (200 ~ 250) mL (250 ~ 500) mL (500 ~ 1 000) mL (1 000 ~ 2 000) mL	1.2 µL 1.2 µL 2.6 µL 4.2 µL 6.2 µL 9.0 µL 13 µL 15 µL 45 µL 46 µL 71 µL 0.13 mL 0.21 mL	Electric balances /SCTI-I-206-01

206. Volume

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Pycnometers	20602			Electric balances
		(0 ~ 10) mL	23 µL	/SCTI-I-206-04
		(10 ~ 25) mL	23 µL	
		(25 ~ 50) mL	29 µL	
		(50 ~ 100) mL	29 µL	
		(100 ~ 250) mL	44 µL	
		(250 ~ 500) mL	56 µL	
Concrete Air content meters	20605	(0 ~ 10) %	0.06 %	Electric balances /SCTI-I-206-02
Piston type volume meters	20606			Electric balances /SCTI-I-206-03
Pipet		(0 ~ 1) µL	0.009 µL	
		(1 ~ 10) µL	0.02 µL	
		(10 ~ 20) µL	0.03 µL	
		(20 ~ 100) µL	0.07 µL	
		(100 ~ 200) µL	0.12 µL	
		(200 ~ 1 000) µL	0.6 µL	
		(1 ~ 5) mL	1.4 µL	
		(5 ~ 10) mL	6 µL	
		(10 ~ 50) mL	11 µL	
		(50 ~ 100) mL	0.12 mL	

207. Density

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Liquid density meters	20702	(0.75 ~ 1.50) g/cm^3	0.000 085 g/cm^3	Solid density standard /SCTI-I-207-04
Salinity meters	20704	(0 ~ 26) %	0.03 %	NaCl /SCTI-I-207-01
Sucrose meters	20705	(0 ~ 60) %	0.03 %	Sucrose
		(60 ~ 83) %	0.05 %	/SCTI-I-207-02

207. Density

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Hydrometers	20706			Standard density
API hydrometers		-1 ~ 101	0.12	/SCTI-I-207-5
Alcohol hydrometers		(0 ~ 100) %	0.12 %	/SCTI-I-207-6
Baume hydrometers		0 ~ 70	0.06	/SCTI-I-207-7
Density hydrometers		(0.650 ~ 2.000) g/cm^3	0.000 14 g/cm^3	/SCTI-I-207-8
Spectific gravity hyderometers		0.650 ~ 2.000	0.000 14	/SCTI-I-207-9
Sugar hyderometers		0 ~ 60	0.12	/SCTI-I-207-10
Chloride meters	20707	(0.0 ~ 0.1) %	0.000 9 %	Chloride ion standard
		(0.1 ~ 1.5) %	0.001 7 %	solution /SCTI-I-207-03

208. Viscosity

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Kinematic viscometers; capillary, etc.	20801			Viscosity standard liquid
Viscometers, capillary		(2.5 ~ 200 000) mm^2/s	1.7 × 10^{-2}	/SCTI-I-208-01
Viscometers, ford cup		(2.5 ~ 1 000) mm^2/s	2.2 × 10^{-2}	
Viscometers, zhan cup		(2.5 ~ 1 000) mm^2/s	2.2 × 10^{-2}	
Dynamic viscometers; rotational, etc.	20802			Viscosity standard liquid
Viscometers, rotational		(2.5 ~ 200 000) mPa·s	1.7 × 10^{-2}	/SCTI-I-208-02
Viscometers, stomer		(2.5 ~ 5 000) mPa·s	1.5 × 10^{-2}	

209. Fluid flow

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Anemometers; hot-wire	20901	(2 ~ 5) m/s	1.6 × 10^{-2}	Wind Tunnel, pitot tube
		(5 ~ 40) m/s	1.5 × 10^{-2}	SCTI-I-209-08
Anemometers; pitot tube, etc.	20902	(2 ~ 5) m/s	1.6 × 10^{-2}	Wind Tunnel, pitot tube
		(5 ~ 40) m/s	1.5 × 10^{-2}	SCTI-I-209-09

209. Fluid flow

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Gas flowmeters; differential pressure	20908	(0.001 8 ~ 250) m^3/h	2.8 × 10^{-3}	Sonicnozzle SCTI-I-209-01
Gas flowmeters; thermal mass, etc.	20911	(0.001 8 ~ 250) m^3/h	2.8 × 10^{-3}	Sonicnozzle SCTI-I-209-02
Gas flowmeters; positive displacement	20914	(0.001 8 ~ 250) m^3/h	2.8 × 10^{-3}	Sonicnozzle SCTI-I-209-03
Gas flowmeters; turbine	20916	(0.001 8 ~ 250) m^3/h	2.8 × 10^{-3}	Sonicnozzle SCTI-I-209-04
Gas flowmeters; ultrasonic	20918	(0.001 8 ~ 250) m^3/h	2.8 × 10^{-3}	Sonicnozzle SCTI-I-209-07
Gas flowmeters; variable area	20920	(0.001 8 ~ 250) m^3/h	2.8 × 10^{-3}	Sonicnozzle SCTI-I-209-05
Gas flowmeters; vortex	20922	(0.001 8 ~ 250) m^3/h	2.8 × 10^{-3}	Sonicnozzle SCTI-I-209-06
Anemometers; vane, etc	20925	(2 ~ 5) m/s (5 ~ 40) m/s	1.6 × 10^{-2} 1.5 × 10^{-2}	Wind Tunnel, pitot tube SCTI-I-209-10

210. Hardness

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Brinell hardness testers	21001	(100 ~ 225) HBW 10/3 000 (225 ~ 400) HBW 10/3 000 (Test Force : 29.42 kN)	2.5 HBW 10/3 000 4.5 HBW 10/3 000	Brinell standard block /SCTI-I-210-01
Rockwell hardness testers	21002	(20 ~ 70) HRC (20 ~ 100) HRBW (70 ~ 94) HR15N (67 ~ 93) HR15TW (42 ~ 86) HR30N (29 ~ 82) HR30TW	0.4 HRC 0.7 HRBW 0.7 HR15N 1.1 HR15TW 0.7 HR30N 1.1 HR30TW	Rockwell standard block /SCTI-I-210-02
Shore hardness testers	21003	(25 ~ 100) HS	1.5 HS	Shore standard block / SCTI-I-210-03

210. Hardness

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Vickers hardness testers	21004	≦225 HV 0.2	4.8 HV 0.2	Vickers standard block, / SCTI-I-210-04
		(400 ~ 600) HV 0.2	14 HV 0.2	
		＞700 HV 0.2	21 HV 0.2	
		≦225 HV 0.5	4.8 HV 0.5	
		(400 ~ 600) HV 0.5	15 HV 0.5	
		＞700 HV 0.5	20 HV 0.5	
		≦225 HV 1	4.0 HV 1	
		(400 ~ 600) HV 1	13 HV 1	
		＞700 HV 1	23 HV 1	
		≦225 HV 10	2.8 HV 10	
		(400 ~ 600) HV 10	4.6 HV 10	
		＞700 HV 10	9.0 HV 10	
		≦225 HV 30	1.8 HV 30	
		(400 ~ 600) HV 30	5.5 HV 30	
		＞700 HV 30	9.6 HV 30	
Durometer hardness testers	21005	(0 ~ 100) HDA	0.3 HDA	Durimeter Calibrator, Setting Blocks, Measuring microscopes, /SCTI-I-210-05
		(0 ~ 100) HDD	0.3 HDD	
Leeb hardness testers	21006	(400 ~ 1 000) HLD	5 HLD	Leeb standard block / SCTI-I-210-06

211. Impact

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Charpy impact testers	21102	(0.1 ~ 1 000) J	-	Electric levels Height gauge /SCTI-I-211-01 SCTI-I-211-02
Izod impact testers	21103	(0.1 ~ 1 000) J	-	Electric levels Height gauge /SCTI-I-211-03

301. Time/frequency

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Frequency meters /counters	30104			GPS, Frequency counters /SCTI-I-301-01
reference frequency		1 MHz	1.5×10^{-12}	
		5 MHz	1.8×10^{-12}	
		10 MHz	1.4×10^{-12}	
Input Frequency		10 MHz	1.3×10^{-12}	
Time interval meters/ Stop watches/Timers	30106			Time interval meter
Stop watches		1 ms ~ 24 h	6.7×10^{-8}	/SCTI-I-301-02
Timers		(0.01 ~ 0.1) s	1.0×10^{-4}	/SCTI-I-301-03
		(0.1 ~ 10 000) s	1.0×10^{-5}	
Counters *		1 ~ 100 000	1	/SCTI-I-301-04

302. Velocity & revolution

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Standard RPM generators Rotational velocity(Centrifuge)	30201	(6 ~ 4 000) min^{-1}	0.2 min^{-1}	Tachometer /SCTI-I-302-04
		(4 000 ~ 9 000) min^{-1}	0.6 min^{-1}	
		(9 000 ~ 15 000) min^{-1}	2 min^{-1}	
Contact-type tachometers	30202	(6 ~ 1 000) min^{-1}	0.06 min^{-1}	RPM generators /SCTI-I-302-01
		(1 000 ~ 4 000) min^{-1}	0.1 min^{-1}	
Photo tachometers/ stroboscopes	30203			RPM generators /SCTI-I-302-02
Photo tachometers		(6 ~ 1 000) min^{-1}	0.01 min^{-1}	
		(1 000 ~ 99 999) min^{-1}	0.1 min^{-1}	
Strobo		(30 ~ 1 000) min^{-1}	0.006 min^{-1}	
		(1 000 ~ 50 000) min^{-1}	0.06 min^{-1}	
		(50 000 ~ 60 000) min^{-1}	0.6 min^{-1}	

302. Velocity & revolution

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Speed meters	30204			Delay generator,
Speed		(1 ~ 50) cm		Oscilloscope,
		1 m/h ~ 1 000 km/h	1.1×10^{-3}	Frequency counter,
		50 cm ~ 1 m		GPS Receiver,
		2 m/h ~ 10 km/h	5.0×10^{-4}	Tapeline
		(10 ~ 1 000) km/h	1.1×10^{-3}	/SCTI-I-302-03
		(1 ~ 5) m		
		10 m/h ~ 10 km/h	2.0×10^{-4}	
		(10 ~ 1 000) km/h	1.1×10^{-3}	
		(5 ~ 10) m		
		20 m/h ~ 10 km/h	3.0×10^{-4}	
		(10 ~ 100) km/h	1.2×10^{-4}	
		(100 ~ 1 000) km/h	1.1×10^{-3}	

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
DC ammeters	40101			Current Calibrator,
DC Current		10 μA	7.0×10^{-4}	/SCTI-I-401-01
		(10 ~ 100) μA	1.2×10^{-4}	
		100 μA ~ 1 mA	5.0×10^{-5}	
		(1 ~ 10) mA	5.0×10^{-5}	
		(10 ~ 100) mA	6.0×10^{-5}	
		100 mA ~ 1 A	1.1×10^{-4}	
		(1 ~ 10) A	4.7×10^{-4}	
		(10 ~ 100) A	1.0×10^{-3}	
DC voltage/current Calibrators	40103			Digital Multimeter, Current Shunt
DC Voltage		10 mV	3.0×10^{-5}	/SCTI-I-401-03
		(10 ~ 100) mV	5.0×10^{-6}	
		100 mV ~ 1 V	4.0×10^{-6}	
		(1 ~ 10) V	4.0×10^{-6}	
		(10 ~ 100) V	5.0×10^{-6}	
		(100 ~ 1 000) V	6.0×10^{-6}	

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
DC voltage/current Calibrators	40103			Digital Multimeter, Current Shunt /SCTI-I-401-03
DC Current		10 μA	1.0×10^{-4}	
		(10 ~ 100) μA	1.5×10^{-5}	
		100 μA ~ 1 mA	1.3×10^{-5}	
		(1 ~ 10) mA	1.5×10^{-5}	
		(10 ~ 100) mA	4.8×10^{-5}	
		100 mA ~ 1 A	1.4×10^{-4}	
		(1 ~ 10) A	3.0×10^{-4}	
		(10 ~ 50) A	5.8×10^{-4}	
Electrical temperature Calibrators	40104			Digital Multimeter Voltage, Resistance Calibrator /SCTI-I-401-09
Output		-10 mV	3.0×10^{-5}	
DC Voltage(TC)		(-10 ~ -5) mV	6.0×10^{-5}	
		(-5 ~ 1) mV	0.3 μV	
		(1 ~ 10) mV	3.0×10^{-5}	
		(10 ~ 100) mV	1.5×10^{-5}	
Resistance(RTD)		1 Ω	6.0×10^{-5}	
		(1 ~ 10) Ω	3.5×10^{-5}	
		(10 ~ 100) Ω	2.0×10^{-5}	
		100 Ω ~ 1 kΩ	1.5×10^{-5}	
		(1 ~ 10) kΩ	1.5×10^{-5}	
Input		-10 mV	6.0×10^{-5}	
DC Voltage(TC)		(-10 ~ -5) mV	1.2×10^{-4}	
		(-5 ~ 1) mV	0.5 μV	
		(1 ~ 10) mV	6.0×10^{-5}	
		(10 ~ 100) mV	3.5×10^{-5}	
Input		1 Ω	1.2×10^{-3}	
Resistance(RTD)		(1 ~ 10) Ω	6.5×10^{-4}	
		(10 ~ 100) Ω	1.2×10^{-4}	
		100 Ω ~ 1 kΩ	4.7×10^{-5}	
		(1 ~ 4) kΩ	4.7×10^{-5}	

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Electrical temperature Calibrators	40104			Digital Multimeter Voltage, Resistance Calibrator /SCTI-I-401-09
Output DC Voltage		1 mV	3.0×10^{-4}	
		(1 ~ 10) mV	3.0×10^{-5}	
		(10 ~ 100) mV	5.0×10^{-6}	
		100 mV ~ 1 V	4.0×10^{-6}	
		(1 ~ 10) V	4.0×10^{-6}	
		(10 ~ 100) V	5.0×10^{-6}	
		(100 ~ 300) V	1.0×10^{-5}	
Output DC Current		1 mA	1.4×10^{-5}	
		(1 ~ 10) mA	1.6×10^{-5}	
		(10 ~ 100) mA	4.8×10^{-5}	
		100 mA ~ 1 A	2.1×10^{-4}	
		(1 ~ 10) A	4.8×10^{-4}	
Output Resistance		1 Ω	1.0×10^{-4}	
		(1 ~ 10) Ω	2.0×10^{-5}	
		(10 ~ 100) Ω	9.0×10^{-6}	
		100 Ω ~ 1 kΩ	9.0×10^{-6}	
		(1 ~ 10) kΩ	9.0×10^{-6}	
		(10 ~ 100) kΩ	9.0×10^{-6}	
		100 kΩ ~ 1 MΩ	1.0×10^{-5}	
		(1 ~ 10) MΩ	2.3×10^{-5}	
		(10 ~ 100) MΩ	1.5×10^{-4}	
Input DC Voltage		1 mV	5.0×10^{-4}	
		(1 ~ 10) mV	6.0×10^{-5}	
		(10 ~ 100) mV	1.3×10^{-5}	
		100 mV ~ 1 V	7.0×10^{-6}	
		(1 ~ 10) V	5.0×10^{-6}	
		(10 ~ 100) V	7.0×10^{-6}	
		(100 ~ 500) V	1.0×10^{-5}	
Input DC Current		1 mA	4.9×10^{-5}	
		(1 ~ 10) mA	4.5×10^{-5}	
		(10 ~ 100) mA	6.0×10^{-5}	
		100 mA ~ 1 A	1.1×10^{-4}	
		(1 ~ 10) A	4.7×10^{-4}	

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Electrical temperature Calibrators	40104			Digital Multimeter Voltage,
Input Resistance		1 Ω	1.2×10^{-4}	Resistance Calibrator /SCTI-I-401-09
		(1 ~ 10) Ω	2.7×10^{-5}	
		(10 ~ 100) Ω	1.3×10^{-5}	
		100 Ω ~ 1 kΩ	9.0×10^{-6}	
		(1 ~ 10) kΩ	9.0×10^{-6}	
		(10 ~ 100) kΩ	1.4×10^{-5}	
		100 kΩ ~ 1 MΩ	1.8×10^{-5}	
		(1 ~ 10) MΩ	5.0×10^{-5}	
		(10 ~ 100) MΩ	1.2×10^{-4}	
DC current shunts	40105			Current Calibrator,
		0.1 mΩ	1.0×10^{-4}	Digital Multimeter
		(0.1 ~ 1) mΩ	1.3×10^{-4}	/SCTI-I-401-04
		(1 ~ 10) mΩ	1.7×10^{-4}	
		(10 ~ 100) mΩ	1.1×10^{-4}	
		100 mΩ ~ 1 Ω	6.0×10^{-5}	
		(1 ~ 10) Ω	5.0×10^{-5}	
		(10 ~ 100) Ω	5.0×10^{-5}	
		100 Ω ~ 1 kΩ	1.2×10^{-4}	
		(1 ~ 10) kΩ	7.0×10^{-4}	
Galvanometers/null detectors	40106			Voltage Calibrator
DC Voltage		10 μV	6.0×10^{-2}	/SCTI-I-401-05
		(10 ~ 100) μV	7.0×10^{-3}	
		100 μV ~ 1 mV	4.0×10^{-3}	
		(1 ~ 10) mV	4.0×10^{-3}	
		(10 ~ 100) mV	4.0×10^{-3}	
		100 mV ~ 1 V	4.0×10^{-3}	
		(1 ~ 10) V	4.0×10^{-3}	
		(10 ~ 100) V	4.0×10^{-3}	
		(100 ~ 1 000) V	4.0×10^{-3}	
DC Current		(100 ~ 500) nA	1.6×10^{-2}	
		500 nA ~ 5 μA	8.0×10^{-3}	
		(5 ~ 50) μA	8.0×10^{-3}	

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
DC power supplies	40108			Digital Multimeter
DC Voltage		100 mV	1.0×10^{-5}	Current Shunt,
		100 mV ~ 1 V	1.0×10^{-5}	Current Sensor
		(1 ~ 10) V	1.0×10^{-5}	/SCTI-I-401-08
		(10 ~ 100) V	1.0×10^{-5}	
		(100 ~ 300) V	3.3×10^{-5}	
		(300 ~ 500) V	2.0×10^{-5}	
		(500 ~ 1 000) V	6.0×10^{-4}	
DC Current		10 mA	1.2×10^{-4}	
		(10 ~ 100) mA	1.2×10^{-4}	
		100 mA ~ 1 A	1.2×10^{-4}	
		(1 ~ 10) A	3.0×10^{-4}	
		(10 ~ 100) A	5.8×10^{-4}	
		(100 ~ 200) A	8.0×10^{-4}	
		(200 ~ 400) A	7.7×10^{-4}	
		(400 ~ 600) A	7.8×10^{-4}	
		(600 ~ 800) A	7.9×10^{-4}	
		(800 ~ 1 000) A	7.8×10^{-4}	
Ripple		(100 V / 100 A)		
		100 μV	1.0×10^{-1}	
		100 μV ~ 1 mV	1.0×10^{-2}	
		(1 ~ 10) mV	2.0×10^{-3}	
		(10 ~ 100) mV	2.0×10^{-3}	
Load Regulation		(100 V / 100 A)		
		1 mV	1.0×10^{-3}	
		(1 ~ 5) mV	2.0×10^{-4}	
		(5 ~ 50) mV	2.0×10^{-4}	
		(50 ~ 500) mV	2.0×10^{-4}	

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
DC voltmeters	40112			Voltage Calibrator
DC Voltage		100 μV	5.0×10^{-3}	/SCTI-I-401-14
		100 μV ~ 50 mV	4.0×10^{-5}	
		(50 ~ 300) mV	3.3×10^{-5}	
		300 mV ~ 1 V	1.0×10^{-5}	
		(1 ~ 3) V	3.3×10^{-5}	
		(3 ~ 10) V	1.0×10^{-5}	
		(10 ~ 30) V	3.3×10^{-5}	
		(30 ~ 100) V	1.0×10^{-5}	
		(100 ~ 300) V	3.3×10^{-5}	
		(300 ~ 1 000) V	2.0×10^{-5}	
Static/ionic voltmeters	40113			DC Power Supply
Positive		0.02 kV	1.0×10^{-1}	/SCTI-I-401-10
		(0.02 ~ 0.1) kV	2.0×10^{-2}	
		(0.1 ~ 15) kV	1.2×10^{-2}	
		(15 ~ 20) kV	1.2×10^{-2}	
Negative		0.02 kV	1.0×10^{-1}	
		(0.02 ~ 0.1) kV	2.0×10^{-2}	
		(0.1 ~ 15) kV	1.2×10^{-2}	
		(15 ~ 20) kV	1.2×10^{-2}	

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Earth testers	40205			Decade Resistor,
Resistance		1 mΩ	1.0×10^{-2}	Standard Resistor,
		(1 ~ 10) mΩ	1.0×10^{-3}	Multimeter,
		(10 ~ 100) mΩ	1.0×10^{-3}	Current Shunt
		100 mΩ ~ 1 Ω	1.0×10^{-4}	/SCTI-I-402-01
		(1 ~ 10) Ω	1.0×10^{-4}	
		(10 ~ 100) Ω	1.0×10^{-4}	
		100 Ω ~ 1 kΩ	1.0×10^{-4}	
		(1 ~ 10) kΩ	1.0×10^{-4}	
AC Voltage		50 Hz ~ 1 kHz		
(Input Voltage)		(1 ~ 1 000) V	2.0×10^{-4}	

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Earth testers	40205			Decade Resistor,
AC Voltage		50 Hz ~ 1 kHz		Standard Resistor,
(Output Voltage)		(1 ~ 10) V	6.0×10^{-3}	Multimeter,
				Current Shunt
AC Current		50 Hz ~ 1 kHz		/SCTI-I-402-01
		1 A	6.0×10^{-3}	
		(1 ~ 10) A	1.3×10^{-3}	
		(10 ~ 50) A	1.3×10^{-3}	
Insulation testers	40210			Decade Resistor,
Resistance		10 Ω	1.0×10^{-3}	Multimeter,
		(10 ~ 100) Ω	3.0×10^{-4}	Highvoltage meter,
		100 Ω ~ 1 kΩ	2.0×10^{-4}	/SCTI-I-402-02
		(1 ~ 10) kΩ	2.0×10^{-4}	
		(10 ~ 100) kΩ	2.0×10^{-4}	
		100 kΩ ~ 1 MΩ	4.0×10^{-4}	
		(1 ~ 10) MΩ	4.0×10^{-4}	
		(10 ~ 100) MΩ	1.2×10^{-3}	
		100 MΩ ~ 1 GΩ	1.4×10^{-3}	
		(1 ~ 10) GΩ	5.8×10^{-3}	
		(10 ~ 100) GΩ	6.0×10^{-3}	
		100 GΩ ~ 1 TΩ	2.0×10^{-2}	
		(1 ~ 10) TΩ	6.0×10^{-2}	
AC Voltage		40 Hz ~ 1 kHz		
		10 V	3.0×10^{-4}	
		(10 ~ 100) V	3.0×10^{-4}	
		(100 ~ 300) V	5.3×10^{-4}	
		(300 ~ 500) V	6.0×10^{-4}	
		(500 ~ 1 000) V	5.0×10^{-4}	
Test Voltage		10 V	1.0×10^{-3}	
		(10 ~ 100) V	1.0×10^{-3}	
		(100 ~ 1 000) V	4.0×10^{-4}	
		(1 000 ~ 5 000) V	7.6×10^{-3}	

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Resistance bridges & Similar instruments	40213			Standard Resistor, /SCTI-I-402-03
Resistance (ratio arm)		1 mΩ	1.2×10^{-4}	
		10 mΩ	9.0×10^{-5}	
		100 mΩ	1.0×10^{-5}	
		1 Ω	1.0×10^{-5}	
		10 Ω	1.0×10^{-5}	
		100 Ω	1.0×10^{-5}	
		1 kΩ	1.0×10^{-4}	
		10 kΩ	1.0×10^{-4}	
		100 kΩ	1.0×10^{-4}	
		1 MΩ	1.0×10^{-4}	
		10 MΩ	1.0×10^{-4}	
Resistance (rheostat arm)		(0.1 ~ 1) Ω	1.0×10^{-4}	
		(1 ~ 10) Ω	6.7×10^{-5}	
		(10 ~ 100) Ω	2.5×10^{-5}	
		100 Ω ~ 1 kΩ	2.0×10^{-5}	
		(1 ~ 10) kΩ	2.0×10^{-5}	
Resistance meters	40214			Decade Resistor,
Standard resistor		0.1 mΩ	1.2×10^{-3}	Standard Resistor,
		1 mΩ	1.2×10^{-4}	Multimeter,
		10 mΩ	8.7×10^{-5}	Current Shunt
		100 mΩ	9.0×10^{-6}	/SCTI-I-402-04
		1 Ω	8.0×10^{-6}	
		10 Ω	8.0×10^{-6}	
		100 Ω	8.0×10^{-6}	
		1 kΩ	8.0×10^{-6}	
		10 kΩ	8.0×10^{-6}	
		100 kΩ	1.2×10^{-5}	
		1 MΩ	1.9×10^{-5}	
		10 MΩ	2.5×10^{-5}	
Decade resistor		(1 ~ 10) Ω	2.0×10^{-4}	
		(10 ~ 100) Ω	4.0×10^{-5}	
		100 Ω ~ 1 kΩ	3.0×10^{-5}	
		(1 ~ 10) kΩ	3.0×10^{-5}	
		(10 ~ 100) kΩ	2.0×10^{-5}	
		100 kΩ ~ 1 MΩ	1.0×10^{-4}	

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Resistance meters	40214			Decade Resistor,
Decade resistor		(1 ~ 10) MΩ	3.7×10^{-4}	Standard Resistor,
		(10 ~ 100) MΩ	1.3×10^{-3}	Multimeter,
		(100 ~ 1 000) MΩ	3.5×10^{-3}	Current Shunt
		(1 ~ 10) GΩ	1.0×10^{-2}	/SCTI-I-402-04
		(10 ~ 100) GΩ	1.0×10^{-2}	
Resistors	40215			Digiatl Multimeter
		(0.1 ~ 1) mΩ	1.0×10^{-3}	/SCTI-I-402-05
		(1 ~ 10) mΩ	1.0×10^{-3}	
		(10 ~ 100) mΩ	1.5×10^{-4}	
		(100 ~ 1 000) mΩ	1.1×10^{-4}	
		(1 ~ 10) Ω	5.0×10^{-5}	
		(10 ~ 100) Ω	2.5×10^{-5}	
		100 Ω ~ 1 kΩ	2.0×10^{-5}	
		(1 ~ 10) kΩ	2.0×10^{-5}	
		(10 ~ 100) kΩ	2.0×10^{-5}	
		100 kΩ ~ 1 MΩ	3.0×10^{-5}	
		(1 ~ 10) MΩ	8.5×10^{-5}	
		(10 ~ 100) MΩ	6.5×10^{-4}	
Electrical conductivity	40216			STD. Conductivity
meters		16.8 MS/m	0.3 MS/m	/SCTI-I-402-10
		22.8 MS/m	0.4 MS/m	
		25.1 MS/m	0.4 MS/m	
		33.2 MS/m	0.5 MS/m	
		59.1 MS/m	0.8 MS/m	
Impedance bridges/LCR	40217			STD. Inductance
meters				STD. Capacitance
Capacitance		1 pF		STD. Resistance
		1 kHz ~ 3 MHz	5.3×10^{-4}	/SCTI-I-402-09
		(3 ~ 5) MHz	9.5×10^{-4}	
		(5 ~ 13) MHz	3.7×10^{-3}	
		(1 ~ 10) pF		
		1 kHz ~ 4 MHz	3.5×10^{-4}	
		(4 ~ 13) MHz	3.8×10^{-4}	
		(10 ~ 100) pF		
		1 kHz ~ 5 MHz	3.7×10^{-4}	
		(5 ~ 10) MHz	4.8×10^{-4}	
		(10 ~ 13) MHz	6.0×10^{-4}	

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Impedance bridges/LCR meters	40217			STD. Inductance STD. Capacitance STD. Resistance /SCTI-I-402-09
Capacitance		100 pF ~ 1 nF		
		1 kHz ~ 2 MHz	3.7×10^{-4}	
		(2 ~ 5) MHz	7.1×10^{-4}	
		(5 ~ 13) MHz	2.8×10^{-3}	
		(1 ~ 10) nF		
		(0.12 ~ 100) kHz	7.1×10^{-5}	
		(10 ~ 100) nF		
		(0.12 ~ 100) kHz	7.1×10^{-5}	
		100 nF ~ 1 μF		
		(0.12 ~ 10) kHz	7.7×10^{-5}	
		(10 ~ 100) kHz	9.1×10^{-5}	
Resistance		1 kHz		
		0.1 Ω	3.6×10^{-3}	
		(0.1 ~ 1) Ω	1.2×10^{-3}	
		(1 ~ 10) Ω	4.6×10^{-4}	
		(10 ~ 100) Ω	4.5×10^{-4}	
		100 Ω ~ 1 kΩ	4.5×10^{-4}	
		(1 ~ 10) kΩ	4.5×10^{-4}	
		(10 ~ 100) kΩ	4.5×10^{-4}	
Inductance		1 kHz		
		100 μH	4.4×10^{-4}	
		100 μH ~ 1 mH	3.1×10^{-4}	
		(1 ~ 10) mH	3.1×10^{-4}	
		(10 ~ 100) mH	3.1×10^{-4}	
		100 mH ~ 1 H	3.1×10^{-4}	
		(1 ~ 10) H	3.1×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC ammeters	40301			Current Calibrator,
AC Current		60 Hz ~ 1 kHz		/SCTI-I-403-01
		100 μA	2.6×10^{-3}	
		100 μA ~ 1 mA	1.7×10^{-4}	
		(1 ~ 10) mA	1.7×10^{-4}	
		(10 ~ 100) mA	1.8×10^{-4}	
		100 mA ~ 1 A	3.5×10^{-4}	
		(1 ~ 10) A	6.0×10^{-4}	
		(60 ~ 400) Hz		
		(10 ~ 20) A	5.0×10^{-3}	
		(20 ~ 100) A	1.7×10^{-3}	
Clamp ammeters/ voltmeters (Current Probe Amplifier)	40302			Voltage Calibrator, Current Calibrator, Meter Calibrator,
DC Voltage		10 mV	1.0×10^{-4}	Turn Coil,
		(10 ~ 100) mV	2.0×10^{-5}	Decade Resistor,
		100 mV ~ 1 V	1.0×10^{-4}	Standard Resistor,
		(1 ~ 10) V	1.0×10^{-4}	/SCTI-I-403-02
		(10 ~ 100) V	1.0×10^{-4}	
		(100 ~ 500) V	2.0×10^{-4}	
		(500 ~ 1 000) V	1.0×10^{-3}	
AC Voltage		40 Hz ~ 10 kHz		
		10 mV	1.0×10^{-3}	
		(10 ~ 100) mV	3.4×10^{-4}	
		100 mV ~ 1 V	3.0×10^{-4}	
		(1 ~ 10) V	3.0×10^{-4}	
		(10 ~ 100) V	3.0×10^{-4}	
		(100 ~ 500) V	4.0×10^{-4}	
		(500 ~ 1 000) V	1.0×10^{-3}	
DC Current		1 mA	3.0×10^{-3}	
		(1 ~ 10) mA	2.3×10^{-3}	
		(10 ~ 100) mA	2.3×10^{-3}	
		100 mA ~ 1 A	3.0×10^{-3}	
		(1 ~ 10) A	2.3×10^{-3}	
		(10 ~ 100) A	2.3×10^{-3}	
		(100 ~ 300) A	2.3×10^{-3}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Clamp ammeters/ voltmeters (Current Probe Amplifier)	40302			Voltage Calibrator, Current Calibrator, Meter Calibrator, Turn Coil, Decade Resistor, Standard Resistor, /SCTI-I-403-02
DC Current		(300 ~ 500) A	2.4×10^{-3}	
		(500 ~ 1 000) A	2.3×10^{-3}	
		(1 000 ~ 2 000) A	2.5×10^{-3}	
		(2 000 ~ 3 000) A	2.3×10^{-3}	
		(3 000 ~ 4 000) A	2.3×10^{-3}	
		(4 000 ~ 5 000) A	2.4×10^{-3}	
AC Current		40 Hz ~ 1 kHz		
		1 mA	3.0×10^{-3}	
		(1 ~ 10) mA	2.3×10^{-3}	
		(10 ~ 100) mA	2.3×10^{-3}	
		100 mA ~ 1 A	3.0×10^{-3}	
		(1 ~ 10) A	2.4×10^{-3}	
		(10 ~ 100) A	2.9×10^{-3}	
		(50 ~ 100) Hz		
		(100 ~ 300) A	2.8×10^{-3}	
		(300 ~ 500) A	2.8×10^{-3}	
		(500 ~ 1 000) A	2.5×10^{-3}	
		(1 000 ~ 2 000) A	2.5×10^{-3}	
		100 Hz ~ 1 kHz		
		(100 ~ 300) A	6.0×10^{-3}	
		(300 ~ 500) A	6.0×10^{-3}	
		(500 ~ 1 000) A	3.9×10^{-3}	
		(1 000 ~ 2 000) A	3.0×10^{-3}	
		(50 ~ 100) Hz		
		(2 000 ~ 3 000) A	2.3×10^{-3}	
		(3 000 ~ 4 000) A	2.5×10^{-3}	
		(4 000 ~ 5 000) A	2.4×10^{-3}	
Resistance		1 Ω	1.0×10^{-3}	
		(1 ~ 10) Ω	9.9×10^{-5}	
		(10 ~ 100) Ω	1.0×10^{-4}	
		100 Ω ~ 1 kΩ	1.0×10^{-4}	
		(1 ~ 10) kΩ	1.0×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Clamp ammeters/	40302			Voltage Calibrator,
voltmeters				Current Calibrator,
(Current Probe Amplifier)				Meter Calibrator,
Resistance		(10 ~ 100) kΩ	1.0×10^{-4}	Turn Coil,
		100 kΩ ~ 1 MΩ	1.0×10^{-4}	Decade Resistor,
		(1 ~ 10) MΩ	1.0×10^{-4}	Standard Resistor,
		(10 ~ 100) MΩ	1.0×10^{-3}	/SCTI-I-403-02
AC voltage/current	40303			AC-DC Transfer STD.
calibrators				Current shunts
AC Voltage		50 Hz ~ 1 kHz		/SCTI-I-403-03
		1 mV	7.0×10^{-3}	
		(1 ~ 10) mV	1.2×10^{-3}	
		(10 ~ 100) mV	1.4×10^{-4}	
		100 mV ~ 1 V	9.0×10^{-5}	
		(1 ~ 10) V	9.0×10^{-5}	
		(10 ~ 100) V	9.0×10^{-5}	
		(100 ~ 300) V	2.0×10^{-4}	
		(300 ~ 1 000) V	1.1×10^{-4}	
AC Current		50 Hz ~ 1 kHz		
		30 μA	2.7×10^{-3}	
		(30 ~ 100) μA	3.5×10^{-3}	
		100 μA ~ 100 mA	5.2×10^{-4}	
		100 mA ~ 1 A	9.3×10^{-4}	
		(1 ~ 10) A	1.2×10^{-3}	
		(10 ~ 30) A	1.2×10^{-3}	
		(30 ~ 50) A	1.2×10^{-3}	
Wattmeter calibrators	40304			Wattmeter
DC Power		2 mW	1.0×10^{-2}	/SCTI-I-403-11
		(2 ~ 10) mW	2.0×10^{-3}	
		(10 ~ 100) mW	9.0×10^{-4}	
		100 mW ~ 1 W	8.0×10^{-4}	
		(1 ~ 10) W	8.0×10^{-4}	
		(10 ~ 100) W	8.0×10^{-4}	
		(100 ~ 500) W	9.2×10^{-4}	
		500 W ~ 1 kW	8.0×10^{-4}	
		(1 ~ 5) kW	9.2×10^{-4}	
		(5 ~ 10) kW	8.1×10^{-4}	
		(10 ~ 20) kW	8.0×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Wattmeter calibrators	40304			Wattmeter
AC Power		(50 ~ 60) Hz		/SCTI-I-403-11
		72 mW	2.8×10^{-3}	
		(72 ~ 240) mW	1.7×10^{-3}	
		(240 ~ 600) mW	6.7×10^{-4}	
		600 mW ~ 1.2 W	5.0×10^{-4}	
		(1.2 ~ 6) W	4.2×10^{-4}	
		(6 ~ 12) W	4.2×10^{-4}	
		(12 ~ 60) W	4.2×10^{-4}	
		(60 ~ 120) W	4.2×10^{-4}	
		(120 ~ 600) W	4.2×10^{-4}	
		600 W ~ 1.2 kW	4.1×10^{-4}	
		(1.2 ~ 2.4) kW	4.2×10^{-4}	
		(2.4 ~ 4.8) kW	4.2×10^{-4}	
Power Factor *		(50 ~ 60) Hz		
		(Lead, Lag)		
		(120 ~ 240) V, (0.005 ~ 20) A		
		0.1 ~ 1	0.000 7	
Harmonic Voltage		Harmonic No. 2 ~ 50		
		(50 ~ 60) Hz		
		(110, 220) V		
		0.5 %	2.2×10^{-1}	
		(0.5 ~ 1) %	1.1×10^{-1}	
		(1 ~ 3) %	3.7×10^{-2}	
		(3 ~ 5) %	2.2×10^{-2}	
		(5 ~ 10) %	1.1×10^{-2}	
		(10 ~ 20) %	6.0×10^{-3}	
Harmonic Current		Harmonic No. 2 ~ 50		
		(50 ~ 60) Hz		
		(0.5, 1, 5, 10) A		
		0.5 %	1.0×10^{-1}	
		(0.5 ~ 1) %	4.0×10^{-2}	
		(1 ~ 3) %	1.3×10^{-2}	
		(3 ~ 5) %	8.0×10^{-3}	
		(5 ~ 10) %	4.0×10^{-3}	
		(10 ~ 20) %	2.0×10^{-3}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC current shunts	40305			Current Calibrator,
Resistance		(50 ~ 400) Hz		Digital Multimeter
		0.1 mΩ	3.0×10^{-3}	/SCTI-I-403-04
		(0.1 ~ 1) mΩ	2.9×10^{-3}	
		50 Hz ~ 1 kHz		
		(1 ~ 10) mΩ	6.0×10^{-4}	
		(10 ~ 100) mΩ	8.0×10^{-4}	
		100 mΩ ~ 1 Ω	3.0×10^{-4}	
		(1 ~ 10) Ω	3.0×10^{-4}	
		(10 ~ 100) Ω	3.0×10^{-4}	
		100 Ω ~ 1 kΩ	2.6×10^{-3}	
		(1 ~ 10) kΩ	1.3×10^{-2}	
Power factor meters	40310			Power factor
(LEAD & LAG)		60 Hz		Measurement
		1.0	0.000 2	/SCTI-I-403-05
		0.9	0.000 2	
		0.8	0.000 2	
		0.7	0.000 2	
		0.6	0.000 2	
		0.5	0.000 2	
		0.4	0.000 2	
		0.3	0.000 2	
		0.2	0.000 3	
		0.1	0.000 5	
AC power meters	40311			Voltage Calibrator,
AC Voltage		(50, 60) Hz		Current Calibrator,
		0.1 V	1.0×10^{-3}	Power calibrator,
		(0.1 ~ 1) V	1.0×10^{-4}	/SCTI-I-403-06
		(1 ~ 10) V	7.0×10^{-5}	
		(10 ~ 60) V	1.0×10^{-4}	
		(60 ~ 100) V	8.0×10^{-5}	
		(100 ~ 300) V	1.7×10^{-4}	
		(300 ~ 600) V	1.2×10^{-4}	
		(600 ~ 1 000) V	1.0×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC power meters	40311			Voltage Calibrator,
AC Current		(50, 60) Hz		Current Calibrator,
		100 mA	2.0×10^{-4}	Power calibrator,
		100 mA ~ 1 A	4.0×10^{-4}	/SCTI-I-403-06
		(1 ~ 2) A	1.3×10^{-3}	
		(2 ~ 10) A	6.0×10^{-4}	
		(10 ~ 19) A	1.7×10^{-3}	
		(19 ~ 30) A	6.7×10^{-4}	
		(30 ~ 40) A	7.5×10^{-4}	
		(40 ~ 50) A	6.0×10^{-4}	
AC Power		(50, 60) Hz		
		18 W	2.2×10^{-4}	
		(18 ~ 30) W	1.7×10^{-4}	
		(30 ~ 60) W	1.2×10^{-4}	
		(60 ~ 120) W	1.7×10^{-4}	
		(120 ~ 600) W	1.3×10^{-4}	
		600 W ~ 1.2 kW	1.7×10^{-4}	
		(1.2 ~ 2.4) kW	1.3×10^{-4}	
		(2.4 ~ 4.8) kW	1.5×10^{-4}	
		(4.8 ~ 7.2) kW	1.3×10^{-4}	
		(7.2 ~ 12) kW	1.7×10^{-4}	
Power factor		(50, 60) Hz		
(LEAD & LAG)		1.0	0.000 2	
		0.9	0.000 2	
		0.8	0.000 2	
		0.7	0.000 2	
		0.6	0.000 2	
		0.5	0.000 2	
		0.4	0.000 2	
		0.3	0.000 2	
		0.2	0.000 3	
		0.1	0.000 5	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC power meters	40311			Voltage Calibrator,
Harmonic Voltage		Harmonic No. 2 ~ 50		Current Calibrator,
		(50, 60) Hz		Power calibrator,
		(110, 220) V		/SCTI-I-403-06
		0.5 %	4.0×10^{-2}	
		(0.5 ~ 1) %	2.0×10^{-2}	
		(1 ~ 3) %	1.3×10^{-2}	
		(3 ~ 5) %	1.2×10^{-2}	
		(5 ~ 10) %	1.2×10^{-2}	
		(10 ~ 20) %	1.2×10^{-2}	
Harmonic Current		Harmonic No. 2 ~ 50		
		(50, 60) Hz		
		(0.5, 1, 5, 10) A		
		0.5 %	4.0×10^{-2}	
		(0.5 ~ 1) %	2.0×10^{-2}	
		(1 ~ 3) %	1.3×10^{-2}	
		(3 ~ 5) %	1.2×10^{-2}	
		(5 ~ 10) %	1.2×10^{-2}	
		(10 ~ 20) %	1.2×10^{-2}	
DC Voltage		0.1 V	1.0×10^{-3}	
		(0.1 ~ 1) V	1.0×10^{-4}	
		(1 ~ 10) V	2.0×10^{-5}	
		(10 ~ 60) V	3.3×10^{-5}	
		(60 ~ 100) V	3.0×10^{-5}	
		(100 ~ 300) V	3.3×10^{-5}	
		(300 ~ 600) V	3.3×10^{-5}	
		(600 ~ 1 000) V	3.0×10^{-5}	
DC Current		100 μA	1.0×10^{-3}	
		100 μA ~ 1 mA	1.0×10^{-4}	
		(1 ~ 10) mA	1.5×10^{-4}	
		(10 ~ 100) mA	1.5×10^{-4}	
		100 mA ~ 1 A	3.0×10^{-4}	
		(1 ~ 10) A	7.0×10^{-4}	
		(10 ~ 19) A	1.2×10^{-3}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC power meters	40311			Voltage Calibrator,
DC Power		1 mW	1.0×10^{-3}	
		(1 ~ 10) mW	1.0×10^{-3}	
		(10 ~ 100) mW	1.0×10^{-3}	
		100 mW ~ 1 W	1.0×10^{-3}	
		(1 ~ 10) W	1.0×10^{-3}	
		(10 ~ 100) W	1.0×10^{-3}	
		100 W ~ 1 kW	1.0×10^{-3}	
		(1 ~ 10) kW	9.0×10^{-4}	
		(10 ~ 20) kW	9.5×10^{-4}	
AC power supplies	40312			Digital Multimeter,
AC Voltage		50 Hz ~ 1 kHz		Current Shunt
		1 mV	7.0×10^{-3}	/SCTI-I-403-07
		(1 ~ 10) mV	8.0×10^{-4}	
		(10 ~ 100) mV	6.0×10^{-4}	
		100 mV ~ 1 V	6.0×10^{-4}	
		(1 ~ 10) V	6.0×10^{-4}	
		(10 ~ 100) V	6.0×10^{-4}	
		(100 ~ 300) V	2.7×10^{-4}	
		(300 ~ 700) V	1.6×10^{-4}	
AC Current		60 Hz ~ 1 kHz		
		0.1 mA	6.0×10^{-3}	
		(0.1 ~ 1) mA	8.0×10^{-4}	
		(1 ~ 10) mA	8.0×10^{-4}	
		(10 ~ 100) mA	8.0×10^{-4}	
		100 mA ~ 1 A	1.1×10^{-3}	
		(1 ~ 10) A	1.3×10^{-3}	
		(10 ~ 30) A	1.3×10^{-3}	
		(30 ~ 50) A	1.3×10^{-3}	
Frequency		40 Hz	1.5×10^{-5}	
		(40 ~ 60) Hz	1.0×10^{-5}	
		(60 ~ 100) Hz	6.0×10^{-5}	
		(100 ~ 500) Hz	1.2×10^{-5}	
		(500 ~ 1 000) Hz	6.0×10^{-6}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Puncture/safety testers	40313			High voltage meter,
DC Voltage		0.1 kV	6.0×10^{-2}	Current Measurement
		(0.1 ~ 1) kV	6.0×10^{-3}	/SCTI-I-403-08
		(1 ~ 5) kV	6.6×10^{-3}	
		(5 ~ 10) kV	6.1×10^{-3}	
		(10 ~ 20) kV	1.4×10^{-2}	
		(20 ~ 30) kV	1.3×10^{-2}	
		(30 ~ 40) kV	1.3×10^{-2}	
		(40 ~ 50) kV	1.2×10^{-2}	
		(50 ~ 60) kV	1.3×10^{-2}	
		(60 ~ 70) kV	1.3×10^{-2}	
		(70 ~ 80) kV	1.2×10^{-2}	
		(80 ~ 90) kV	1.2×10^{-2}	
		(90 ~ 95) kV	1.2×10^{-2}	
DC Cut off current		100 μA	6.0×10^{-3}	
		100 μA ~ 1 mA	2.0×10^{-3}	
		(1 ~ 10) mA	6.0×10^{-4}	
		(10 ~ 100) mA	6.0×10^{-4}	
		100 mA ~ 1 A	1.0×10^{-3}	
AC Voltage		60 Hz		
		0.1 kV	6.0×10^{-2}	
		(0.1 ~ 1) kV	6.0×10^{-3}	
		(1 ~ 5) kV	1.2×10^{-2}	
		(5 ~ 10) kV	1.2×10^{-2}	
		(10 ~ 60) kV	1.4×10^{-2}	
		(60 ~ 170) kV	1.3×10^{-2}	
AC Cut off current		60 Hz		
		100 μA	7.0×10^{-3}	
		100 μA ~ 1 mA	2.0×10^{-3}	
		(1 ~ 10) mA	8.0×10^{-4}	
		(10 ~ 100) mA	8.0×10^{-4}	
		100 mA ~ 1 A	2.0×10^{-3}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Puncture/safety testers	40313			High voltage meter,
Operating Time		0.1 s	6.0×10^{-1}	Current Measurement
		(0.1 ~ 1) s	6.0×10^{-2}	/SCTI-I-403-08
		(1 ~ 5) s	1.2×10^{-2}	
		(5 ~ 10) s	1.0×10^{-1}	
		(10 ~ 50) s	2.0×10^{-2}	
		(50 ~ 100) s	1.0×10^{-2}	
Power recorder	40314			Wattmeter Calibrators
Power		60 Hz		/SCTI-I-403-10
		18 W	2.2×10^{-4}	
		(18 ~ 30) W	1.7×10^{-4}	
		(30 ~ 60) W	1.2×10^{-4}	
		(60 ~ 120) W	1.7×10^{-4}	
		(120 ~ 600) W	1.3×10^{-4}	
		600 W ~ 1.2 kW	1.7×10^{-4}	
		(1.2 ~ 2.4) kW	1.3×10^{-4}	
		(2.4 ~ 4.8) kW	1.5×10^{-4}	
		(4.8 ~ 7.2) kW	1.3×10^{-4}	
		(7.2 ~ 12) kW	1.7×10^{-4}	
Power factor		60 Hz		
(LEAD & LAG)		1.0	0.000 2	
		0.9	0.000 2	
		0.8	0.000 2	
		0.7	0.000 2	
		0.6	0.000 2	
		0.5	0.000 2	
		0.4	0.000 2	
		0.3	0.000 2	
		0.2	0.000 3	
		0.1	0.000 5	
AC voltmeters	40318			Voltage Calibrator,
AC Voltage		(40 ~ 500) Hz		/SCTI-I-403-09
		1 mV	9.0×10^{-3}	
		(1 ~ 10) mV	1.0×10^{-3}	
		(10 ~ 100) mV	1.8×10^{-4}	
		100 mV ~ 1 V	1.2×10^{-4}	
		(1 ~ 10) V	1.2×10^{-4}	
		(10 ~ 100) V	1.2×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC voltmeters	40318			Voltage Calibrator,
AC Voltage		(50 ~ 500) Hz		/SCTI-I-403-09
		(100 ~ 300) V	1.7×10^{-4}	
		(300 ~ 1 000) V	9.0×10^{-5}	
		500 Hz ~ 1 kHz		
		1 mV	9.0×10^{-3}	
		(1 ~ 10) mV	1.0×10^{-3}	
		(10 ~ 100) mV	1.5×10^{-4}	
		100 mV ~ 1 V	7.0×10^{-5}	
		(1 ~ 10) V	7.0×10^{-5}	
		(10 ~ 100) V	8.0×10^{-5}	
		(100 ~ 300) V	1.7×10^{-4}	
		(300 ~ 1 000) V	9.0×10^{-5}	
FLATNESS		1 V		
		1 kHz	7.0×10^{-5}	
		10 kHz	7.0×10^{-5}	
		100 kHz	1.4×10^{-4}	
		1 MHz	2.3×10^{-3}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
LF amplifiers	40401			Calibrator
Amplifier				Digital Multimeter
DC		2 mV	3.9×10^{-4}	/SCTI-I-404-39
		(2 ~ 20) mV	3.7×10^{-4}	
		(20 ~ 100) mV	3.7×10^{-4}	
		(0.1 ~ 1) V	4.6×10^{-5}	
		(1 ~ 10) V	2.0×10^{-5}	
		(10 ~ 100) V	1.3×10^{-5}	
AC		10 Hz		
		2 mV	4.0×10^{-3}	
		(2 ~ 20) mV	4.1×10^{-3}	
		(20 ~ 100) mV	4.0×10^{-3}	
		(0.1 ~ 1) V	9.8×10^{-4}	
		(1 ~ 10) V	8.0×10^{-4}	
		(10 ~ 100) V	7.8×10^{-4}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
LF amplifiers	40401			Calibrator
Amplifier				Digital Multimeter
AC		(10 ~ 100) Hz		/SCTI-I-404-39
		2 mV	4.0×10^{-3}	
		(2 ~ 20) mV	3.7×10^{-3}	
		(20 ~ 100) mV	3.8×10^{-3}	
		(0.1 ~ 1) V	5.0×10^{-4}	
		(1 ~ 10) V	2.2×10^{-4}	
		(10 ~ 100) V	1.4×10^{-4}	
		100 Hz ~ 1 kHz		
		2 mV	4.0×10^{-3}	
		(2 ~ 20) mV	3.7×10^{-3}	
		(20 ~ 100) mV	3.8×10^{-3}	
		(0.1 ~ 1) V	5.0×10^{-4}	
		(1 ~ 10) V	2.2×10^{-4}	
		(10 ~ 100) V	1.4×10^{-4}	
		(1 ~ 10) kHz		
		2 mV	4.0×10^{-3}	
		(2 ~ 20) mV	3.7×10^{-3}	
		(20 ~ 100) mV	3.8×10^{-3}	
		(0.1 ~ 1) V	5.0×10^{-4}	
		(1 ~ 10) V	2.2×10^{-4}	
		(10 ~ 100) V	1.4×10^{-4}	
		(10 ~ 100) kHz		
		100 mV	1.3×10^{-3}	
		(0.1 ~ 1) V	1.3×10^{-3}	
		(1 ~ 10) V	1.3×10^{-3}	
		(10 ~ 100) V	3.9×10^{-4}	
DC/LF attenuators	40402			STD. Cell
Attenuator		50 Hz ~ 200 kHz		Current Shunt,
		(0.1 ~ 40) dB	0.01 dB	Digital Multimeter
		(40 ~ 60) dB	0.02 dB	AC Measurement Standard
		(60 ~ 80) dB	0.15 dB	/SCTI-I-404-01
Frequency Response		-15 dB (1 kHz, Ref.= 0 dB)		
		100 Hz ~ 100 kHz	0.01 dB	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Multimeter calibrators	40403			STD. Cell
DC Voltage		Positive		Current Shunt,
		0 mV	0.13 μV	Digital Multimeter
		(0 ~ 10) mV	2.8×10^{-5}	AC Measurement Standard
		(10 ~ 100) mV	4.9×10^{-6}	/SCTI-I-404-02
		100 mV ~ 1 V	3.9×10^{-6}	
		(1 ~ 10) V	3.7×10^{-6}	
		(10 ~ 100) V	5.3×10^{-6}	
		(100 ~ 1 000) V	5.5×10^{-6}	
		Negative		
		(0 ~ 10) mV	2.8×10^{-5}	
		(10 ~ 100) mV	4.9×10^{-6}	
		100 mV ~ 1 V	3.9×10^{-6}	
		(1 ~ 10) V	3.7×10^{-6}	
		(10 ~ 100) V	5.3×10^{-6}	
		(100 ~ 1 000) V	5.5×10^{-6}	
DC Current		Positive		
		0 μA	0.8 nA	
		(0 ~ 100) μA	2.3×10^{-5}	
		100 μA ~ 1 mA	3.0×10^{-5}	
		(1 ~ 10) mA	2.3×10^{-5}	
		(10 ~ 100) mA	2.3×10^{-5}	
		100 mA ~ 1 A	3.0×10^{-5}	
		(1 ~ 20) A	2.3×10^{-5}	
		Negative		
		(0 ~ 100) μA	2.3×10^{-5}	
		100 μA ~ 1 mA	3.0×10^{-5}	
		(1 ~ 10) mA	2.3×10^{-5}	
		(10 ~ 100) mA	2.3×10^{-5}	
		100 mA ~ 1 A	3.0×10^{-5}	
		(1 ~ 20) A	2.3×10^{-5}	
AC Voltage		1 mV		
		10 Hz	1.8×10^{-3}	
		(10 ~ 20) Hz	1.8×10^{-3}	
		20 Hz ~ 20 kHz	1.7×10^{-3}	
		(20 ~ 100) kHz	3.1×10^{-3}	
		(100 ~ 300) kHz	4.9×10^{-3}	
		300 kHz ~ 1 MHz	1.3×10^{-2}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Multimeter calibrators	40403			STD. Cell
AC Voltage		(1 ~ 2) mV		Current Shunt,
		10 Hz	9.5×10^{-4}	Digital Multimeter
		(10 ~ 20) Hz	9.5×10^{-4}	AC Measurement Standard
		20 Hz ~ 20 kHz	9.0×10^{-4}	/SCTI-I-404-02
		(20 ~ 100) kHz	1.6×10^{-3}	
		(100 ~ 300) kHz	2.6×10^{-3}	
		300 kHz ~ 1 MHz	7.5×10^{-3}	
		(2 ~ 5) mV		
		10 Hz	4.2×10^{-4}	
		(10 ~ 20) Hz	4.2×10^{-4}	
		20 Hz ~ 20 kHz	3.8×10^{-4}	
		(20 ~ 100) kHz	6.6×10^{-4}	
		(100 ~ 300) kHz	1.1×10^{-3}	
		300 kHz ~ 1 MHz	4.2×10^{-3}	
		(5 ~ 10) mV		
		10 Hz	2.7×10^{-4}	
		(10 ~ 20) Hz	2.7×10^{-4}	
		20 Hz ~ 20 kHz	2.3×10^{-4}	
		(20 ~ 100) kHz	4.0×10^{-4}	
		(100 ~ 300) kHz	7.1×10^{-4}	
		300 kHz ~ 1 MHz	2.8×10^{-3}	
		(10 ~ 20) mV		
		10 Hz	1.8×10^{-4}	
		(10 ~ 20) Hz	1.7×10^{-4}	
		20 Hz ~ 20 kHz	1.4×10^{-4}	
		(20 ~ 100) kHz	2.3×10^{-4}	
		(100 ~ 300) kHz	4.1×10^{-4}	
		300 kHz ~ 1 MHz	2.3×10^{-3}	
		(20 ~ 50) mV		
		10 Hz	1.5×10^{-4}	
		(10 ~ 20) Hz	1.2×10^{-4}	
		20 Hz ~ 20 kHz	8.2×10^{-5}	
		(20 ~ 100) kHz	1.6×10^{-4}	
		(100 ~ 300) kHz	3.0×10^{-4}	
		300 kHz ~ 1 MHz	1.4×10^{-3}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Multimeter calibrators	40403			STD. Cell
AC Voltage		(50 ~ 100) mV		Current Shunt,
		10 Hz	1.1×10^{-4}	Digital Multimeter
		(10 ~ 20) Hz	1.0×10^{-4}	AC Measurement Standard
		20 Hz ~ 50 kHz	7.0×10^{-5}	/SCTI-I-404-02
		(50 ~ 100) kHz	1.3×10^{-4}	
		(100 ~ 300) kHz	2.5×10^{-4}	
		300 kHz ~ 1 MHz	1.3×10^{-3}	
		(100 ~ 200) mV		
		10 Hz	8.5×10^{-5}	
		(10 ~ 20) Hz	8.5×10^{-5}	
		20 Hz ~ 50 kHz	4.5×10^{-5}	
		(50 ~ 100) kHz	9.0×10^{-5}	
		(100 ~ 300) kHz	1.9×10^{-4}	
		300 kHz ~ 1 MHz	1.2×10^{-3}	
		(200 ~ 500) mV		
		10 Hz	8.0×10^{-5}	
		(10 ~ 20) Hz	8.0×10^{-5}	
		20 Hz ~ 50 kHz	4.0×10^{-5}	
		(50 ~ 100) kHz	8.0×10^{-5}	
		(100 ~ 300) kHz	1.6×10^{-4}	
		300 kHz ~ 1 MHz	1.1×10^{-3}	
		500 mV ~ 1 V		
		10 Hz	8.0×10^{-5}	
		(10 ~ 20) Hz	7.0×10^{-5}	
		20 Hz ~ 50 kHz	4.0×10^{-5}	
		(50 ~ 100) kHz	6.0×10^{-5}	
		(100 ~ 500) kHz	2.7×10^{-4}	
		500 kHz ~ 1 MHz	1.1×10^{-3}	
		(1 ~ 2) V		
		10 Hz	7.5×10^{-5}	
		(10 ~ 20) Hz	7.5×10^{-5}	
		20 Hz ~ 50 kHz	3.5×10^{-5}	
		(50 ~ 100) kHz	6.0×10^{-5}	
		(100 ~ 500) kHz	2.7×10^{-4}	
		500 kHz ~ 1 MHz	1.1×10^{-3}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Multimeter calibrators	40403			STD. Cell
AC Voltage		(2 ~ 5) V		Current Shunt,
		10 Hz	7.8×10^{-5}	Digital Multimeter
		(10 ~ 20) Hz	7.4×10^{-5}	AC Measurement Standard
		20 Hz ~ 50 kHz	3.4×10^{-5}	/SCTI-I-404-02
		(50 ~ 100) kHz	7.4×10^{-5}	
		(100 ~ 500) kHz	4.4×10^{-4}	
		500 kHz ~ 1 MHz	1.4×10^{-3}	
		(5 ~ 10) V		
		10 Hz	9.0×10^{-5}	
		(10 ~ 20) Hz	8.0×10^{-5}	
		20 Hz ~ 50 kHz	4.0×10^{-5}	
		(50 ~ 100) kHz	8.0×10^{-5}	
		(100 ~ 500) kHz	4.4×10^{-4}	
		500 kHz ~ 1 MHz	1.5×10^{-3}	
		(10 ~ 20) V		
		10 Hz	7.5×10^{-5}	
		(10 ~ 20) Hz	7.5×10^{-5}	
		20 Hz ~ 50 kHz	3.5×10^{-5}	
		(50 ~ 100) kHz	7.5×10^{-5}	
		(100 ~ 500) kHz	4.4×10^{-4}	
		500 kHz ~ 1 MHz	1.4×10^{-3}	
		(20 ~ 50) V		
		10 Hz	7.8×10^{-5}	
		(10 ~ 20) Hz	7.4×10^{-5}	
		20 Hz ~ 50 kHz	3.6×10^{-5}	
		(50 ~ 100) kHz	8.0×10^{-5}	
		(100 ~ 300) kHz	1.8×10^{-5}	
		(50 ~ 100) V		
		10 Hz	1.1×10^{-4}	
		(10 ~ 20) Hz	8.0×10^{-5}	
		20 Hz ~ 50 kHz	5.0×10^{-5}	
		(50 ~ 100) kHz	9.0×10^{-5}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Multimeter calibrators	40403			STD. Cell
AC Voltage		(100 ~ 200) V		Current Shunt,
		10 Hz	8.0×10^{-5}	Digital Multimeter
		(10 ~ 20) Hz	7.5×10^{-5}	AC Measurement Standard
		20 Hz ~ 50 kHz	4.0×10^{-5}	/SCTI-I-404-02
		(50 ~ 100) kHz	8.0×10^{-5}	
		(200 ~ 600) V		
		40 Hz	4.0×10^{-5}	
		40 Hz ~ 20 kHz	3.3×10^{-5}	
		(20 ~ 50) kHz	1.3×10^{-4}	
		(50 ~ 100) kHz	5.8×10^{-4}	
		(600 ~ 1 000) V		
		40 Hz	4.0×10^{-5}	
		40 Hz ~ 20 kHz	4.0×10^{-5}	
		(20 ~ 50) kHz	1.3×10^{-4}	
AC Current		30 μA		
		10 Hz	3.0×10^{-4}	
		10 Hz ~ 10 kHz	2.7×10^{-4}	
		(10 ~ 30) kHz	3.0×10^{-4}	
		(30 ~ 50) μA		
		10 Hz	2.0×10^{-4}	
		10 Hz ~ 10 kHz	1.8×10^{-4}	
		(10 ~ 30) kHz	2.0×10^{-4}	
		(50 ~ 100) μA		
		10 Hz	1.6×10^{-4}	
		10 Hz ~ 1 kHz	1.2×10^{-4}	
		(1 ~ 30) kHz	1.5×10^{-4}	
		(100 ~ 200) μA		
		10 Hz	1.3×10^{-4}	
		10 Hz ~ 1 kHz	1.0×10^{-4}	
		(1 ~ 30) kHz	1.2×10^{-4}	
		(200 ~ 300) μA		
		10 Hz	1.4×10^{-4}	
		10 Hz ~ 1 kHz	9.7×10^{-5}	
		(1 ~ 30) kHz	1.2×10^{-4}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Multimeter calibrators	40403			STD. Cell
AC Current		(300 ~ 500) μA		Current Shunt,
		10 Hz	1.2×10^{-4}	Digital Multimeter
		10 Hz ~ 1 kHz	9.2×10^{-5}	AC Measurement Standard
		(1 ~ 30) kHz	1.1×10^{-4}	/SCTI-I-404-02
		500 μA ~ 1 mA		
		10 Hz	1.2×10^{-4}	
		10 Hz ~ 1 kHz	9.0×10^{-5}	
		(1 ~ 30) kHz	1.1×10^{-4}	
		(1 ~ 2) mA		
		10 Hz	1.0×10^{-4}	
		10 Hz ~ 1 kHz	6.0×10^{-5}	
		(1 ~ 30) kHz	7.0×10^{-5}	
		(2 ~ 3) mA		
		10 Hz	1.2×10^{-4}	
		10 Hz ~ 10 kHz	6.3×10^{-5}	
		(10 ~ 30) kHz	6.7×10^{-5}	
		(3 ~ 5) mA		
		10 Hz	1.0×10^{-4}	
		10 Hz ~ 10 kHz	5.8×10^{-5}	
		(10 ~ 30) kHz	6.0×10^{-5}	
		(5 ~ 10) mA		
		10 Hz	9.0×10^{-5}	
		10 Hz ~ 10 kHz	5.3×10^{-5}	
		(10 ~ 30) kHz	5.4×10^{-5}	
		(10 ~ 20) mA		
		10 Hz	9.0×10^{-5}	
		10 Hz ~ 10 kHz	5.0×10^{-5}	
		(10 ~ 30) kHz	5.5×10^{-5}	
		(20 ~ 30) mA		
		10 Hz	9.0×10^{-5}	
		10 Hz ~ 10 kHz	5.0×10^{-5}	
		(10 ~ 30) kHz	5.3×10^{-5}	
		(30 ~ 50) mA		
		10 Hz	8.8×10^{-5}	
		10 Hz ~ 10 kHz	4.8×10^{-5}	
		(10 ~ 30) kHz	5.0×10^{-5}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Multimeter calibrators	40403			STD. Cell
AC Current		(50 ~ 100) mA		Current Shunt,
		10 Hz	8.7×10^{-5}	Digital Multimeter
		10 Hz ~ 10 kHz	4.8×10^{-5}	AC Measurement Standard
		(10 ~ 30) kHz	5.1×10^{-5}	/SCTI-I-404-02
		(100 ~ 200) mA		
		10 Hz	9.0×10^{-5}	
		10 Hz ~ 10 kHz	5.0×10^{-5}	
		(10 ~ 30) kHz	5.5×10^{-5}	
		(200 ~ 300) mA		
		10 Hz	9.3×10^{-5}	
		10 Hz ~ 30 kHz	5.3×10^{-5}	
		(300 ~ 500) mA		
		10 Hz	9.0×10^{-5}	
		10 Hz ~ 1 kHz	5.0×10^{-5}	
		(1 ~ 10) kHz	5.2×10^{-5}	
		500 mA ~ 1 A		
		10 Hz	8.9×10^{-5}	
		10 Hz ~ 1 kHz	5.0×10^{-5}	
		(1 ~ 10) kHz	5.2×10^{-5}	
		(1 ~ 2) A		
		10 Hz	9.0×10^{-5}	
		(10 ~ 400) Hz	5.0×10^{-5}	
		400 Hz ~ 10 kHz	5.5×10^{-5}	
		(2 ~ 3) A		
		10 Hz	9.7×10^{-5}	
		10 Hz ~ 1 kHz	6.0×10^{-5}	
		(1 ~ 10) kHz	6.3×10^{-5}	
		(3 ~ 5) A		
		10 Hz	9.4×10^{-5}	
		10 Hz ~ 1 kHz	5.8×10^{-5}	
		(1 ~ 10) kHz	6.0×10^{-5}	
		(5 ~ 10) A		
		10 Hz	9.7×10^{-5}	
		10 Hz ~ 1 kHz	6.4×10^{-5}	
		(1 ~ 10) kHz	9.1×10^{-5}	
		(10 ~ 15) A		
		10 Hz	1.3×10^{-4}	
		10 Hz ~ 1 kHz	8.0×10^{-5}	
		(1 ~ 10) kHz	1.0×10^{-4}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Multimeter calibrators	40403			STD. Cell
AC Current		(15 ~ 20) A		Current Shunt,
		10 Hz	9.7×10^{-5}	Digital Multimeter
		10 Hz ~ 1 kHz	8.0×10^{-5}	AC Measurement Standard
		(1 ~ 10) kHz	9.5×10^{-5}	/SCTI-I-404-02
Resistance		0 Ω	0.06 mΩ	
		(0 ~ 1) Ω	6.0×10^{-5}	
		(1 ~ 19) Ω	9.5×10^{-6}	
		(19 ~ 190) Ω	8.4×10^{-6}	
		190 Ω ~ 1.9 kΩ	8.4×10^{-6}	
		(1.9 ~ 19) kΩ	8.4×10^{-6}	
		(19 ~ 190) kΩ	8.4×10^{-6}	
		190 kΩ ~ 1.9 MΩ	9.0×10^{-6}	
		(1.9 ~ 19) MΩ	1.7×10^{-5}	
		(19 ~ 190) MΩ	1.5×10^{-4}	
Oscilloscope calibrators	40404			Digital multimeter
DC Voltage Amplitude		(±)		Power Meter,Sensor
		1 mV	2.6×10^{-4}	GPS,Frequency Counter
		(1 ~ 2) mV	1.4×10^{-4}	/SCTI-I-404-40
		(2 ~ 5) mV	5.4×10^{-5}	
		(5 ~ 10) mV	6.0×10^{-5}	
		(10 ~ 20) mV	3.0×10^{-5}	
		(20 ~ 50) mV	1.4×10^{-5}	
		(50 ~ 100) mV	6.0×10^{-5}	
		(100 ~ 200) mV	3.0×10^{-5}	
		(200 ~ 500) mV	1.2×10^{-5}	
		500 mV ~ 1 V	6.0×10^{-5}	
		(1 ~ 2) V	3.0×10^{-5}	
		(2 ~ 5) V	1.2×10^{-5}	
		(5 ~ 10) V	6.0×10^{-5}	
		(10 ~ 20) V	3.0×10^{-5}	
		(20 ~ 50) V	1.4×10^{-5}	
		(50 ~ 100) V	6.0×10^{-5}	
		(100 ~ 150) V	4.0×10^{-5}	
		(150 ~ 200) V	3.0×10^{-5}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Oscilloscope calibrators	40404			Digital multimeter
AC Voltage Amplitude		10 Hz ~ 10 kHz		Power Meter,Sensor
		1 mV	9.0×10^{-4}	GPS,Frequency Counter
		(1 ~ 2) mV	4.5×10^{-4}	/SCTI-I-404-40
		(2 ~ 5) mV	1.8×10^{-4}	
		(5 ~ 10) mV	1.1×10^{-4}	
		(10 ~ 20) mV	5.5×10^{-5}	
		(20 ~ 50) mV	2.6×10^{-5}	
		(50 ~ 100) mV	6.0×10^{-5}	
		(100 ~ 200) mV	3.5×10^{-5}	
		(200 ~ 500) mV	1.6×10^{-5}	
		500 mV ~ 1 V	6.0×10^{-5}	
		(1 ~ 2) V	3.0×10^{-5}	
		(2 ~ 5) V	1.6×10^{-5}	
		(5 ~ 10) V	6.0×10^{-5}	
		(10 ~ 20) V	4.0×10^{-5}	
		(20 ~ 50) V	1.8×10^{-5}	
		(50 ~ 100) V	6.0×10^{-5}	
		(100 ~ 150) V	4.7×10^{-5}	
		(150 ~ 200) V	3.5×10^{-5}	
Sine Wave Genertor		600 mV		
		50 kHz	1.0×10^{-4}	
		(50 ~ 100) kHz	2.0×10^{-4}	
		(100 ~ 500) kHz	9.3×10^{-4}	
		500 kHz ~ 1 MHz	3.2×10^{-3}	
		1 MHz ~ 1 GHz	6.7×10^{-3}	
		(1 ~ 3) GHz	8.3×10^{-3}	
Time Marker Generator		1 ns	1 fs	
		(1 ~ 5) ns	1 fs	
		(5 ~ 50) ns	0.01 ps	
		(50 ~ 500) ns	0.1 ps	
		500 ns ~ 5 µs	1 ps	
		(5 ~ 50) µs	0.01 ns	
		(50 ~ 500) µs	0.1 ns	
		500 µs ~ 5 ms	1 ns	
		(5 ~ 50) ms	0.01 µs	
		(50 ~ 500) ms	0.1 µs	
		500 ms ~ 5 s	1 µs	
		(5 ~ 10) s	0.01 ms	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Video signal generators	40406			Video Measurement Set,
Frequency		10 Hz	5.7×10^{-5}	Frequency Counter,
		(10 ~ 100) Hz	5.7×10^{-6}	Oscilloscope
		100 Hz ~ 1 kHz	5.7×10^{-7}	/SCTI-I-404-20
		(1 ~ 10) kHz	1.0×10^{-7}	
		(10 ~ 100) kHz	1.0×10^{-7}	
		100 kHz ~ 1 MHz	1.0×10^{-7}	
		(1 ~ 10) MHz	6.0×10^{-8}	
		(10 ~ 100) MHz	6.0×10^{-8}	
		(100 ~ 500) MHz	1.2×10^{-8}	
Video Level		100 mV	3.0×10^{-2}	
		(100 ~ 700) mV	2.6×10^{-2}	
		(700 ~ 1 000) mV	2.5×10^{-2}	
TTL Sync Level		100 mV	3.0×10^{-2}	
		(100 ~ 700) mV	2.6×10^{-2}	
		(700 ~ 1 000) mV	2.5×10^{-2}	
		1 000 mV ~ 5 V	2.4×10^{-2}	
Luminance Amplitude (NTSC)		(0.1 ~ 714) mV	6.0×10^{-3}	
Luminance Amplitude(PAL)		(0.1 ~ 700) mV	5.9×10^{-3}	
Chrominance Amplitude(NTSC)		(0.1 ~ 714) mV	1.2×10^{-2}	
Chrominance Amplitude(PAL)		(0.1 ~ 700) mV	1.2×10^{-2}	
Burst Level(NTSC)		(71.4 ~ 571.2) mV	6.3×10^{-3}	
Burst Level(PAL)		(80 ~ 600) mV	1.2×10^{-2}	
Sync Level(NTSC)		(142.8 ~ 571.2) mV	6.3×10^{-3}	
Sync Level(PAL)		(75 ~ 600) mV	5.8×10^{-3}	
H Blanking(NTSC)		(0.1 ~ 16.4) μs	0.06 μs	
H Blanking(PAL)		(0.1 ~ 16.4) μs	0.06 μs	
Sync. Burst Start(NTSC)		(4 ~ 10) μs	0.17 μs	
Sync. Burst Start(PAL)		(5 ~ 8) μs	0.03 μs	
Sync. Width(NTSC)		(3 ~ 7) μs	0.18 μs	
Sync. Width(PAL)		(1 ~ 8) μs	0.02 μs	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Video signal generators	40406			Video Measurement Set,
Burst Width(NTSC)		(1.7 ~ 3.64) μs	0.17 μs	Frequency Counter,
Burst Width(PAL)		(1.4 ~ 3) μs	0.03 μs	Oscilloscope
				/SCTI-I-404-20
Sync. Rise Time(NTSC)		80 ns ~ 1 μs	0.02 μs	
Sync. Rise Time(PAL)		80 ns ~ 1 μs	0.02 μs	
Sync. Fall Time(NTSC)		80 ns ~ 1 μs	0.02 μs	
Sync. Fall Time(PAL)		80 ns ~ 1 μs	0.02 μs	
Front Porch(NTSC)		(0.1 ~ 3) μs	0.02 μs	
Audio distortion analyzers/meters	40407			Voltage Calibrator, Digital Multimeter, GPS /SCTI-I-404-03
Input voltage		60 Hz ~ 1 kHz		
		1 mV	1.0×10^{-2}	
		(1 ~ 10) mV	1.1×10^{-3}	
		(10 ~ 100) mV	3.0×10^{-4}	
		100 mV ~ 100 V	2.0×10^{-4}	
Output voltage		40 Hz ~ 10 kHz		
		1 mV	1.7×10^{-2}	
		(1 ~ 10) mV	1.8×10^{-3}	
		10 mV ~ 10 V	6.0×10^{-4}	
Frequency		10 Hz ~ 100 kHz	1.0×10^{-6}	
Distortion		(1 ~ 5) kHz		
		0.01 %	9.0×10^{-3}	
		(0.01 ~ 0.031 6) %	3.5×10^{-3}	
		(0.031 6 ~ 0.1) %	2.3×10^{-3}	
		(0.1 ~ 0.316) %	2.2×10^{-3}	
		(0.316 ~ 1) %	2.3×10^{-3}	
		(1 ~ 3.16) %	2.2×10^{-3}	
		(3.16 ~ 10) %	2.3×10^{-3}	
		(10 ~ 31.6) %	2.2×10^{-3}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
LF/Audio	40409			Voltage Calibrator,
signal analyzers				Digital Multimeter,
Input AC Voltage		60 Hz ~ 1 kHz		/SCTI-I-404-04
		1 mV	7.0×10^{-3}	
		(1 ~ 10) mV	8.0×10^{-4}	
		(10 ~ 100) mV	2.0×10^{-4}	
		100 mV ~ 100 V	1.0×10^{-4}	
		(100 ~ 300) V	1.7×10^{-4}	
		(1 ~ 10) kHz		
		1 mV	7.0×10^{-3}	
		(1 ~ 10) mV	8.0×10^{-4}	
		(10 ~ 100) mV	2.0×10^{-4}	
		100 mV ~ 100 V	1.0×10^{-4}	
		(10 ~ 100) kHz		
		1 mV	2.1×10^{-2}	
		(1 ~ 10) mV	2.4×10^{-3}	
		(10 ~ 100) mV	6.0×10^{-4}	
		100 mV ~ 10 V	2.0×10^{-4}	
		(10 ~ 100) V	3.0×10^{-4}	
Output AC Voltage		60 Hz ~ 1 kHz		
		1 mV	1.6×10^{-2}	
		(1 ~ 10) mV	1.7×10^{-3}	
		(10 ~ 100) mV	6.0×10^{-4}	
		100 mV ~ 10 V	6.0×10^{-4}	
Output AC Voltage		(1 ~ 10) kHz		
		1 mV	1.6×10^{-2}	
		(1 ~ 10) mV	1.7×10^{-3}	
		(10 ~ 100) mV	7.0×10^{-4}	
		100 mV ~ 10 V	6.0×10^{-4}	
		(10 ~ 100) kHz		
		1 mV	6.6×10^{-2}	
		(1 ~ 10) mV	6.7×10^{-3}	
		(10 ~ 100) mV	1.3×10^{-3}	
		100 mV ~ 10 V	1.1×10^{-3}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
LF/Audio signal analyzers	40409			Voltage Calibrator, Digital Multimeter, /SCTI-I-404-04
Input DC Voltage		1 mV	1.0×10^{-3}	
		1 mV ~ 100 V	1.0×10^{-4}	
		(100 ~ 300) V	3.3×10^{-5}	
Input Frequency		10 Hz ~ 100 kHz	1.0×10^{-6}	
		(100 ~ 200) kHz	5.0×10^{-7}	
Output Frequency		10 Hz ~ 100 kHz	1.0×10^{-6}	
		(100 ~ 200) kHz	5.0×10^{-7}	
Distortion		(1 ~ 5) kHz		
		(0.01 ~ 0.031 6) %	9.0×10^{-3}	
		(0.031 6 ~ 1) %	3.5×10^{-3}	
		(1 ~ 3.16) %	2.2×10^{-3}	
		(3.16 ~ 10) %	2.3×10^{-3}	
		(10 ~ 31.6) %	2.2×10^{-3}	
Line frequency meters	40410			Meter Calibrator /SCTI-I-404-05
Frequency		20 Hz	5.0×10^{-4}	
		(20 ~ 100) Hz	1.0×10^{-3}	
		100 Hz ~ 1 kHz	5.0×10^{-4}	
Function generators	40411			GPS, Frequency Counter, Digital Multimeter, /SCTI-I-404-06
Frequency		1 Hz	8.0×10^{-5}	
		(1 ~ 10) Hz	8.0×10^{-6}	
		(10 ~ 100) Hz	8.0×10^{-7}	
		100 Hz ~ 1 kHz	6.0×10^{-8}	
		(1 ~ 10) kHz	1.0×10^{-7}	
		(10 ~ 100) kHz	1.0×10^{-7}	
		100 kHz ~ 1 MHz	1.0×10^{-7}	
		(1 ~ 10) MHz	6.0×10^{-8}	
		(10 ~ 100) MHz	6.0×10^{-9}	
LEVEL		1 kHz		
		1 mV	1.6×10^{-2}	
		(1 ~ 10) mV	1.6×10^{-3}	
		(10 ~ 100) mV	1.9×10^{-4}	
		100 mV ~ 1 V	1.0×10^{-4}	
		(1 ~ 10) V	1.4×10^{-4}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Function generators	40411			GPS,
Flatness		1 V		Frequency Counter,
		100 Hz ~ 10 kHz	2.0×10^{-4}	Digital Multimeter,
		100 kHz	1.0×10^{-3}	/SCTI-I-404-06
		1 MHz	9.0×10^{-3}	
DC offset		1 V	6.0×10^{-5}	
		(1 ~ 10) V	6.0×10^{-5}	
		(10 ~ 20) V	4.0×10^{-5}	
LEVEL		(10 ~ -10) dBm	1.0×10^{-3}	
		(-10 ~ -20) dBm	5.0×10^{-4}	
		(-20 ~ -30) dBm	3.3×10^{-4}	
		(-30 ~ -40) dBm	2.5×10^{-4}	
		(-40 ~ -50) dBm	6.0×10^{-4}	
		(-50 ~ -60) dBm	2.3×10^{-3}	
		(-60 ~ -70) dBm	6.0×10^{-3}	
AC/DC high voltages volt meters	40413			Voltage Calibrator, /SCTI-I-404-08
DC Voltage		0.1 kV	1.0×10^{-2}	
		(0.1 ~ 1) kV	1.0×10^{-3}	
		(1 ~ 2) kV	7.5×10^{-3}	
		(2 ~ 4) kV	6.8×10^{-3}	
		(4 ~ 6) kV	6.3×10^{-3}	
		(6 ~ 8) kV	6.1×10^{-3}	
		(8 ~ 10) kV	6.1×10^{-3}	
		(10 ~ 20) kV	1.2×10^{-2}	
		(20 ~ 40) kV	1.2×10^{-2}	
		(40 ~ 60) kV	1.2×10^{-2}	
		(60 ~ 80) kV	1.2×10^{-2}	
		(80 ~ 100) kV	1.1×10^{-2}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC/DC high voltages volt meters	40413			Voltage Calibrator, /SCTI-I-404-08
AC Voltage		60 Hz		
		0.1 kV	1.0×10^{-2}	
		(0.1 ~ 1) kV	1.0×10^{-3}	
		(1 ~ 2) kV	1.4×10^{-2}	
		(2 ~ 4) kV	1.3×10^{-2}	
		(4 ~ 5) kV	1.2×10^{-2}	
		(5 ~ 6) kV	1.2×10^{-2}	
		(6 ~ 8) kV	1.3×10^{-2}	
		(8 ~ 10) kV	1.2×10^{-2}	
		(10 ~ 19) kV	1.2×10^{-2}	
		(19 ~ 20) kV	1.4×10^{-2}	
		(20 ~ 40) kV	1.3×10^{-2}	
		(40 ~ 60) kV	1.4×10^{-2}	
		(60 ~ 80) kV	1.3×10^{-2}	
		(80 ~ 100) kV	1.2×10^{-2}	
		(100 ~ 130) kV	1.2×10^{-2}	
LF impulse generators	40414			Oscilloscope
Output voltage		100 V	3.0×10^{-2}	/SCTI-I-404-10
		(100 ~ 500) V	1.2×10^{-2}	
		500 V ~ 1 kV	1.0×10^{-2}	
		(1 ~ 2) kV	5.0×10^{-2}	
		(2 ~ 3) kV	3.3×10^{-2}	
		(3 ~ 4) kV	4.0×10^{-2}	
		(4 ~ 5) kV	3.4×10^{-2}	
		(5 ~ 6) kV	5.5×10^{-2}	
Pulse Width		(10 ~ 100) ns	2.0×10^{-3}	
		(100 ~ 400) ns	5.0×10^{-4}	
		400 ns ~ 10 ms	2.0×10^{-3}	
Rise Time		< 1 ns	1.4×10^{-2}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Leakage current testers	40416			Current Calibrator,
AC Voltage		50 Hz ~ 1 kHz		/SCTI-I-404-11
		10 V	1.0×10^{-3}	
		(10 ~ 100) V	1.0×10^{-3}	
		(100 ~ 300) V	3.3×10^{-4}	
		(300 ~ 500) V	2.0×10^{-4}	
		(500 ~ 1 000) V	1.0×10^{-3}	
DC Current		0.01 mA	2.0×10^{-3}	
		(0.01 ~ 0.1) mA	1.0×10^{-3}	
		(0.1 ~ 1) mA	1.0×10^{-3}	
		(1 ~ 10) mA	1.0×10^{-3}	
		(10 ~ 100) mA	1.0×10^{-3}	
		50 Hz ~ 1 kHz		
		0.01 mA	0.8×10^{-3}	
		(0.01 ~ 0.1) mA	2.0×10^{-3}	
		(0.1 ~ 1) mA	1.0×10^{-3}	
		(1 ~ 10) mA	1.0×10^{-3}	
		(10 ~ 100) mA	1.0×10^{-3}	
Electronic AC/DC loads	40417			Voltage Calibrator,
DC Voltage		1 V	1.0×10^{-4}	Current Calibrator,
		(1 ~ 100) V	2.0×10^{-5}	/SCTI-I-404-12
		(100 ~ 500) V	4.0×10^{-5}	
		(500 ~ 1 000) V	1.0×10^{-4}	
DC Current		100 mA	1.0×10^{-4}	
		100 mA ~ 1 A	2.0×10^{-4}	
		(1 ~ 10) A	3.0×10^{-4}	
		(10 ~ 100) A	6.0×10^{-4}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Analogue/Digital	40419			STD. Cell
multimeters				Current Calibrator,
DC Voltage				Voltage calibrator,
Positive		1 mV	5.0×10^{-4}	STD. Resistance,
		(1 ~ 2) mV	2.6×10^{-4}	/SCTI-I-404-13
		(2 ~ 3) mV	1.7×10^{-4}	
		(3 ~ 5) mV	1.0×10^{-4}	
		(5 ~ 10) mV	5.5×10^{-5}	
		(10 ~ 20) mV	2.9×10^{-5}	
		(20 ~ 30) mV	2.1×10^{-5}	
		(30 ~ 50) mV	1.4×10^{-5}	
		(50 ~ 100) mV	8.9×10^{-6}	
		(100 ~ 200) mV	6.5×10^{-6}	
		(200 ~ 300) mV	8.7×10^{-6}	
		(300 ~ 500) mV	6.6×10^{-6}	
		500 mV ~ 1 V	5.3×10^{-6}	
		(1 ~ 2) V	4.5×10^{-6}	
		(2 ~ 3) V	5.0×10^{-6}	
		(3 ~ 5) V	4.4×10^{-6}	
		(5 ~ 10) V	4.0×10^{-6}	
		(10 ~ 15) V	4.2×10^{-6}	
		(15 ~ 20) V	4.0×10^{-6}	
		(20 ~ 30) V	1.0×10^{-5}	
		(30 ~ 50) V	7.2×10^{-6}	
		(50 ~ 100) V	5.3×10^{-6}	
		(100 ~ 200) V	4.5×10^{-6}	
		(200 ~ 300) V	9.3×10^{-6}	
		(300 ~ 500) V	7.0×10^{-6}	
		(500 ~ 700) V	6.1×10^{-6}	
		(700 ~ 1 000) V	5.6×10^{-6}	
Negative		1 mV	5.0×10^{-4}	
		(1 ~ 2) mV	2.6×10^{-4}	
		(2 ~ 3) mV	1.7×10^{-4}	
		(3 ~ 5) mV	1.0×10^{-4}	
		(5 ~ 10) mV	5.5×10^{-5}	
		(10 ~ 20) mV	2.9×10^{-5}	
		(20 ~ 30) mV	2.1×10^{-5}	
		(30 ~ 50) mV	1.4×10^{-5}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Analogue/Digital	40419			STD. Cell
multimeters				Current Calibrator,
DC Voltage				Voltage calibrator,
Negative		(50 ~ 100) mV	8.9×10^{-6}	STD. Resistance,
		(100 ~ 200) mV	6.5×10^{-6}	/SCTI-I-404-13
		(200 ~ 300) mV	8.7×10^{-6}	
		(300 ~ 500) mV	6.6×10^{-6}	
		500 mV ~ 1 V	5.3×10^{-6}	
		(1 ~ 2) V	4.5×10^{-6}	
		(2 ~ 3) V	5.0×10^{-6}	
		(3 ~ 5) V	4.4×10^{-6}	
		(5 ~ 10) V	4.0×10^{-6}	
		(10 ~ 15) V	4.2×10^{-6}	
		(15 ~ 20) V	4.0×10^{-6}	
		(20 ~ 30) V	1.0×10^{-5}	
		(30 ~ 50) V	7.2×10^{-6}	
		(50 ~ 100) V	5.3×10^{-6}	
		(100 ~ 200) V	4.5×10^{-6}	
		(200 ~ 300) V	9.3×10^{-6}	
		(300 ~ 500) V	7.0×10^{-6}	
		(500 ~ 700) V	6.1×10^{-6}	
		(700 ~ 1 000) V	5.6×10^{-6}	
AC Voltage		1 mV		
		10 Hz ~ 10 kHz	8.0×10^{-3}	
		(1 ~ 2) mV		
		10 Hz	4.5×10^{-3}	
		10 Hz ~ 10 kHz	4.0×10^{-3}	
		(2 ~ 5) mV		
		10 Hz	2.0×10^{-3}	
		(10 ~ 40) Hz	1.8×10^{-3}	
		40 Hz ~ 10 kHz	1.6×10^{-3}	
		(5 ~ 10) mV		
		10 Hz	1.3×10^{-3}	
		(10 ~ 40) Hz	9.0×10^{-4}	
		40 Hz ~ 10 kHz	8.0×10^{-4}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Analogue/Digital	40419			STD. Cell
multimeters				Current Calibrator,
AC Voltage		(10 ~ 20) mV		Voltage calibrator,
		10 Hz	9.0×10^{-4}	STD. Resistance,
		(10 ~ 40) Hz	5.5×10^{-4}	/SCTI-I-404-13
		40 Hz ~ 10 kHz	4.5×10^{-4}	
		(20 ~ 50) mV		
		10 Hz	8.8×10^{-4}	
		(10 ~ 40) Hz	4.2×10^{-4}	
		40 Hz ~ 20 kHz	2.6×10^{-4}	
		(20 ~ 50) kHz	3.4×10^{-4}	
		(50 ~ 100) kHz	8.4×10^{-4}	
		(100 ~ 200) kHz	1.2×10^{-3}	
		(200 ~ 500) kHz	2.0×10^{-3}	
		500 kHz ~ 1 MHz	5.6×10^{-3}	
		(50 ~ 100) mV		
		10 Hz	7.3×10^{-4}	
		(10 ~ 40) Hz	3.1×10^{-4}	
		40 Hz ~ 20 kHz	1.7×10^{-4}	
		(20 ~ 50) kHz	2.2×10^{-4}	
		(50 ~ 100) kHz	5.6×10^{-4}	
		(100 ~ 200) kHz	8.1×10^{-4}	
		(200 ~ 500) kHz	1.6×10^{-3}	
		500 kHz ~ 1 MHz	4.6×10^{-3}	
		(100 ~ 200) mV		
		10 Hz	6.5×10^{-4}	
		(10 ~ 40) Hz	2.7×10^{-4}	
		40 Hz ~ 20 kHz	1.2×10^{-4}	
		(20 ~ 50) kHz	1.7×10^{-4}	
		(50 ~ 100) kHz	4.1×10^{-4}	
		(100 ~ 200) kHz	6.5×10^{-4}	
		(200 ~ 500) kHz	1.4×10^{-3}	
		500 kHz ~ 1 MHz	4.2×10^{-3}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Analogue/Digital multimeters	40419			STD. Cell Current Calibrator,
AC Voltage		(200 ~ 500) mV		Voltage calibrator,
		10 Hz	7.2×10^{-4}	STD. Resistance,
		(10 ~ 40) Hz	2.4×10^{-4}	/SCTI-I-404-13
		40 Hz ~ 20 kHz	1.0×10^{-4}	
		(20 ~ 50) kHz	1.6×10^{-4}	
		(50 ~ 100) kHz	4.0×10^{-4}	
		(100 ~ 200) kHz	7.6×10^{-4}	
		(200 ~ 500) kHz	1.9×10^{-3}	
		500 kHz ~ 1 MHz	4.2×10^{-3}	
		500 mV ~ 1 V		
		10 Hz	6.1×10^{-4}	
		(10 ~ 40) Hz	2.0×10^{-4}	
		40 Hz ~ 20 kHz	7.0×10^{-5}	
		(20 ~ 50) kHz	1.3×10^{-4}	
		(50 ~ 100) kHz	3.0×10^{-4}	
		(100 ~ 200) kHz	5.9×10^{-4}	
		(200 ~ 500) kHz	1.5×10^{-3}	
		500 kHz ~ 1 MHz	3.2×10^{-3}	
		(1 ~ 2) V		
		10 Hz	5.5×10^{-4}	
		(10 ~ 40) Hz	1.8×10^{-4}	
		40 Hz ~ 20 kHz	5.5×10^{-5}	
		(20 ~ 50) kHz	1.2×10^{-4}	
		(50 ~ 100) kHz	2.6×10^{-4}	
		(100 ~ 200) kHz	5.0×10^{-4}	
		(200 ~ 500) kHz	1.3×10^{-3}	
		500 kHz ~ 1 MHz	2.7×10^{-3}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Analogue/Digital multimeters	40419			STD. Cell Current Calibrator,
AC Voltage		(2 ~ 5) V		Voltage calibrator,
		10 Hz	7.2×10^{-4}	STD. Resistance,
		(10 ~ 40) Hz	2.4×10^{-4}	/SCTI-I-404-13
		40 Hz ~ 20 kHz	1.0×10^{-4}	
		(20 ~ 50) kHz	1.6×10^{-4}	
		(50 ~ 100) kHz	3.2×10^{-4}	
		(100 ~ 200) kHz	8.8×10^{-4}	
		(200 ~ 500) kHz	2.2×10^{-3}	
		500 kHz ~ 1 MHz	4.8×10^{-3}	
		(5 ~ 10) V		
		10 Hz	6.1×10^{-4}	
		(10 ~ 40) Hz	1.9×10^{-4}	
		40 Hz ~ 20 kHz	7.0×10^{-5}	
		(20 ~ 50) kHz	1.3×10^{-4}	
		(50 ~ 100) kHz	2.6×10^{-4}	
		(100 ~ 200) kHz	7.0×10^{-4}	
		(200 ~ 500) kHz	1.8×10^{-3}	
		500 kHz ~ 1 MHz	3.8×10^{-3}	
		(10 ~ 20) V		
		10 Hz	5.5×10^{-4}	
		(10 ~ 40) Hz	1.8×10^{-4}	
		40 Hz ~ 20 kHz	5.5×10^{-5}	
		(20 ~ 50) kHz	1.2×10^{-4}	
		(50 ~ 100) kHz	2.4×10^{-4}	
		(100 ~ 200) kHz	6.0×10^{-4}	
		(200 ~ 500) kHz	1.5×10^{-3}	
		500 kHz ~ 1 MHz	3.3×10^{-3}	
		(20 ~ 50) V		
		10 Hz	7.2×10^{-4}	
		(10 ~ 40) Hz	2.4×10^{-4}	
		40 Hz ~ 20 kHz	1.2×10^{-4}	
		(20 ~ 50) kHz	2.2×10^{-4}	
		(50 ~ 100) kHz	5.6×10^{-4}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Analogue/Digital	40419			STD. Cell
multimeters				Current Calibrator,
AC Voltage		(50 ~ 100) V		Voltage calibrator,
		10 Hz	6.1×10^{-4}	STD. Resistance,
		(10 ~ 40) Hz	1.9×10^{-4}	/SCTI-I-404-13
		40 Hz ~ 20 kHz	7.0×10^{-5}	
		(20 ~ 50) kHz	1.6×10^{-4}	
		(50 ~ 100) kHz	4.4×10^{-4}	
		(100 ~ 200) V		
		10 Hz	5.5×10^{-4}	
		(10 ~ 40) Hz	1.8×10^{-4}	
		40 Hz ~ 20 kHz	6.0×10^{-5}	
		(20 ~ 50) kHz	1.3×10^{-4}	
		(50 ~ 100) kHz	4.0×10^{-4}	
		(200 ~ 700) V		
		(40 ~ 55) Hz	1.3×10^{-4}	
		55 Hz ~ 1 kHz	8.6×10^{-5}	
		(1 ~ 20) kHz	2.1×10^{-4}	
		(700 ~ 1 000) V		
		(40 ~ 55) Hz	1.2×10^{-4}	
		55 Hz ~ 1 kHz	8.0×10^{-5}	
		(1 ~ 20) kHz	2.0×10^{-4}	
DC Current		10 µA	2.4×10^{-4}	
Positive		(10 ~ 20) µA	1.2×10^{-4}	
		(20 ~ 30) µA	8.0×10^{-5}	
		(30 ~ 50) µA	7.0×10^{-5}	
		(50 ~ 100) µA	4.7×10^{-5}	
		(100 ~ 200) µA	3.5×10^{-5}	
		(200 ~ 300) µA	4.7×10^{-5}	
		(300 ~ 500) µA	3.6×10^{-5}	
		500 µA ~ 1 mA	3.1×10^{-5}	
		(1 ~ 2) mA	3.0×10^{-5}	
		(2 ~ 3) mA	4.7×10^{-5}	
		(3 ~ 5) mA	3.6×10^{-5}	
		(5 ~ 10) mA	3.1×10^{-5}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Analogue/Digital	40419			STD. Cell
multimeters				Current Calibrator,
DC Current		(10 ~ 20) mA	3.0×10^{-5}	Voltage calibrator,
Positive		(20 ~ 30) mA	4.3×10^{-5}	STD. Resistance,
		(30 ~ 50) mA	3.6×10^{-5}	/SCTI-I-404-13
		(50 ~ 100) mA	3.2×10^{-5}	
		(100 ~ 200) mA	3.0×10^{-5}	
		(200 ~ 300) mA	7.3×10^{-5}	
		(300 ~ 500) mA	6.2×10^{-5}	
		500 mA ~ 1 A	5.4×10^{-5}	
		(1 ~ 2) A	5.0×10^{-5}	
		(2 ~ 3) A	6.0×10^{-4}	
		(3 ~ 5) A	5.2×10^{-4}	
		(5 ~ 7) A	5.0×10^{-4}	
		(7 ~ 9) A	4.8×10^{-4}	
		(9 ~ 11) A	4.6×10^{-4}	
		(11 ~ 20) A	1.2×10^{-3}	
Negative		10 μA	2.5×10^{-4}	
		(10 ~ 20) μA	1.3×10^{-4}	
		(20 ~ 30) μA	8.3×10^{-5}	
		(30 ~ 50) μA	7.0×10^{-5}	
		(50 ~ 100) μA	4.6×10^{-5}	
		(100 ~ 200) μA	3.5×10^{-5}	
		(200 ~ 300) μA	4.7×10^{-5}	
		(300 ~ 500) μA	3.6×10^{-5}	
		500 μA ~ 1 mA	3.1×10^{-5}	
		(1 ~ 2) mA	3.0×10^{-5}	
		(2 ~ 3) mA	4.7×10^{-5}	
		(3 ~ 5) mA	3.6×10^{-5}	
		(5 ~ 10) mA	3.1×10^{-5}	
		(10 ~ 20) mA	3.0×10^{-5}	
		(20 ~ 30) mA	4.3×10^{-5}	
		(30 ~ 50) mA	3.6×10^{-5}	
		(50 ~ 100) mA	3.2×10^{-5}	
		(100 ~ 200) mA	3.0×10^{-5}	
		(200 ~ 300) mA	7.3×10^{-5}	
		(300 ~ 500) mA	6.2×10^{-5}	
		500 mA ~ 1 A	5.4×10^{-5}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Analogue/Digital	40419			STD. Cell
multimeters				Current Calibrator,
DC Current				Voltage calibrator,
Negative		(1 ~ 2) A	5.0×10^{-5}	STD. Resistance,
		(2 ~ 3) A	6.0×10^{-4}	/SCTI-I-404-13
		(3 ~ 5) A	5.2×10^{-4}	
		(5 ~ 7) A	5.0×10^{-4}	
		(7 ~ 9) A	4.8×10^{-4}	
		(9 ~ 11) A	4.6×10^{-4}	
		(11 ~ 20) A	1.2×10^{-3}	
AC Current		50 μA		
		10 Hz	2.0×10^{-3}	
		(10 ~ 40) Hz	1.8×10^{-3}	
		40 Hz ~ 1 kHz	1.6×10^{-3}	
		(1 ~ 10) kHz	2.0×10^{-2}	
		(50 ~ 100) μA		
		10 Hz	1.2×10^{-3}	
		(10 ~ 40) Hz	1.0×10^{-3}	
		40 Hz ~ 1 kHz	9.0×10^{-4}	
		(1 ~ 10) kHz	1.1×10^{-2}	
		(100 ~ 200) μA		
		10 Hz	8.0×10^{-4}	
		(10 ~ 40) Hz	6.0×10^{-4}	
		40 Hz ~ 1 kHz	5.0×10^{-4}	
		(1 ~ 10) kHz	6.0×10^{-3}	
		(200 ~ 300) μA		
		10 Hz	6.7×10^{-4}	
		(10 ~ 40) Hz	5.0×10^{-4}	
		40 Hz ~ 1 kHz	3.3×10^{-4}	
		(1 ~ 10) kHz	4.3×10^{-3}	
		(300 ~ 500) μA		
		10 Hz	5.8×10^{-4}	
		(10 ~ 40) Hz	4.0×10^{-4}	
		40 Hz ~ 1 kHz	2.4×10^{-4}	
		(1 ~ 10) kHz	3.2×10^{-3}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Analogue/Digital multimeters	40419			STD. Cell Current Calibrator, Voltage calibrator, STD. Resistance, /SCTI-I-404-13
AC Current		500 μA ~ 1 mA		
		10 Hz	5.1×10^{-4}	
		(10 ~ 40) Hz	3.4×10^{-4}	
		40 Hz ~ 1 kHz	1.7×10^{-4}	
		(1 ~ 10) kHz	2.3×10^{-3}	
		(1 ~ 2) mA		
		10 Hz	5.0×10^{-4}	
		(10 ~ 40) Hz	3.0×10^{-4}	
		40 Hz ~ 1 kHz	1.5×10^{-4}	
		(1 ~ 10) kHz	1.9×10^{-3}	
		(2 ~ 3) mA		
		10 Hz	6.7×10^{-4}	
		(10 ~ 40) Hz	5.0×10^{-4}	
		40 Hz ~ 1 kHz	3.3×10^{-4}	
		(1 ~ 10) kHz	4.3×10^{-3}	
		(3 ~ 5) mA		
		10 Hz	5.8×10^{-4}	
		(10 ~ 40) Hz	4.0×10^{-4}	
		40 Hz ~ 1 kHz	2.4×10^{-4}	
		(1 ~ 10) kHz	3.2×10^{-3}	
		(5 ~ 10) mA		
		10 Hz	5.1×10^{-4}	
		(10 ~ 40) Hz	3.4×10^{-4}	
		40 Hz ~ 1 kHz	1.7×10^{-4}	
		(1 ~ 10) kHz	2.3×10^{-3}	
		(10 ~ 20) mA		
		10 Hz	5.0×10^{-4}	
		(10 ~ 40) Hz	3.0×10^{-4}	
		40 Hz ~ 1 kHz	1.5×10^{-4}	
		(1 ~ 10) kHz	1.9×10^{-3}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Analogue/Digital multimeters	40419			STD. Cell Current Calibrator, Voltage calibrator, STD. Resistance, /SCTI-I-404-13
AC Current		(20 ~ 30) mA		
		10 Hz	7.0×10^{-4}	
		(10 ~ 40) Hz	5.3×10^{-4}	
		(40 ~ 500) Hz	4.0×10^{-4}	
		500 Hz ~ 1 kHz	4.0×10^{-4}	
		(1 ~ 10) kHz	4.3×10^{-3}	
		(30 ~ 50) mA		
		10 Hz	5.8×10^{-4}	
		(10 ~ 40) Hz	4.2×10^{-4}	
		(40 ~ 500) Hz	2.8×10^{-4}	
		500 Hz ~ 1 kHz	2.8×10^{-4}	
		(1 ~ 10) kHz	3.2×10^{-3}	
		(50 ~ 100) mA		
		10 Hz	5.2×10^{-4}	
		(10 ~ 40) Hz	3.5×10^{-4}	
		(40 ~ 55) Hz	1.9×10^{-4}	
		55 Hz ~ 1 kHz	1.8×10^{-4}	
		(1 ~ 10) kHz	2.3×10^{-3}	
		(100 ~ 200) mA		
		10 Hz	5.0×10^{-4}	
		(10 ~ 40) Hz	3.0×10^{-4}	
		40 Hz ~ 1 kHz	1.5×10^{-4}	
		(1 ~ 10) kHz	1.9×10^{-3}	
		(200 ~ 300) mA		
		10 Hz ~ 1 kHz	8.7×10^{-4}	
		(1 ~ 10) kHz	9.0×10^{-3}	
		(300 ~ 500) mA		
		10 Hz ~ 1 kHz	7.6×10^{-4}	
		(1 ~ 10) kHz	8.6×10^{-3}	
		500 mA ~ 1 A		
		10 Hz ~ 1 kHz	6.9×10^{-4}	
		(1 ~ 10) kHz	8.3×10^{-3}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Analogue/Digital multimeters	40419			STD. Cell Current Calibrator, Voltage calibrator, STD. Resistance, /SCTI-I-404-13
AC Current		(1 ~ 2) A		
		10 Hz ~ 1 kHz	6.5×10^{-4}	
		(1 ~ 10) kHz	8.0×10^{-3}	
		(2 ~ 3) A		
		40 Hz ~ 1 kHz	9.3×10^{-4}	
		(1 ~ 10) kHz	4.7×10^{-3}	
		(3 ~ 5) A		
		40 Hz ~ 1 kHz	7.2×10^{-4}	
		(1 ~ 10) kHz	4.4×10^{-3}	
		(5 ~ 7) A		
		40 Hz ~ 1 kHz	6.4×10^{-4}	
		(1 ~ 10) kHz	4.3×10^{-3}	
		(7 ~ 9) A		
		40 Hz ~ 1 kHz	6.0×10^{-4}	
		(1 ~ 10) kHz	4.2×10^{-3}	
		(9 ~ 11) A		
		40 Hz ~ 1 kHz	5.8×10^{-4}	
		(1 ~ 10) kHz	4.3×10^{-3}	
		(11 ~ 15) A		
		(50 ~ 100) Hz	1.8×10^{-3}	
		100 Hz ~ 1 kHz	2.1×10^{-3}	
		(15 ~ 20) A		
		(50 ~ 100) Hz	1.7×10^{-3}	
		100 Hz ~ 1 kHz	2.0×10^{-3}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Analogue/Digital multimeters	40419			STD. Cell Current Calibrator,
Resistance		100 mΩ	9.0×10^{-6}	Voltage calibrator,
		100 mΩ ~ 1 Ω	7.9×10^{-6}	STD. Resistance,
		(1 ~ 10) Ω	7.9×10^{-6}	/SCTI-I-404-13
		(10 ~ 100) Ω	7.9×10^{-6}	
		100 Ω ~ 1 kΩ	7.9×10^{-6}	
		(1 ~ 10) kΩ	7.9×10^{-6}	
		(10 ~ 100) kΩ	1.2×10^{-5}	
		100 kΩ ~ 1 MΩ	1.9×10^{-5}	
		(1 ~ 10) MΩ	2.5×10^{-5}	
		(10 ~ 100) MΩ	3.6×10^{-5}	
		100 MΩ ~ 1 GΩ	2.4×10^{-3}	
Frequency		10 Hz	1.0×10^{-6}	
		(10 ~ 100) Hz	1.0×10^{-6}	
		100 Hz ~ 1 kHz	1.0×10^{-6}	
		(1 ~ 10) kHz	1.0×10^{-6}	
		(10 ~ 100) kHz	1.0×10^{-6}	
		100 kHz ~ 1 MHz	1.0×10^{-6}	
		(1 ~ 10) MHz	1.0×10^{-6}	
Noise meters	40420			Voltage calibrator,
Level		50 Hz ~ 20 kHz		/SCTI-I-404-14
		1 mV	1.0×10^{-2}	
		(1 ~ 3) mV	3.3×10^{-3}	
		(3 ~ 10) mV	2.0×10^{-3}	
		(10 ~ 30) mV	6.7×10^{-4}	
		(30 ~ 100) mV	1.0×10^{-3}	
		(100 ~ 300) mV	3.3×10^{-4}	
		300 mV ~ 1 V	1.0×10^{-3}	
		(1 ~ 3) V	3.3×10^{-4}	
		(3 ~ 10) V	1.0×10^{-3}	
		(10 ~ 30) V	3.3×10^{-4}	
		(30 ~ 100) V	1.0×10^{-3}	
		(100 ~ 300) V	6.7×10^{-4}	
FREQUENCY RESPONSE		50 Hz ~ 100 kHz		
		1 V	1.0×10^{-3}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Noise meters	40420			Voltage calibrator,
FREQUENCY RESPONSE		100 kHz ~ 1 MHz		/SCTI-I-404-14
		1 V	4.0×10^{-3}	
WEIGHTING FILTERS		DIN/AUDIO	1.0×10^{-3}	
		DIN/NOISE	1.0×10^{-3}	
Oscilloscopes	40421			Voltage calibrator,
DC Voltage		1 mV	2.9×10^{-2}	/SCTI-I-404-15
		(1 ~ 2) mV	1.5×10^{-2}	
		(2 ~ 5) mV	6.0×10^{-3}	
		(5 ~ 10) mV	3.2×10^{-3}	
		(10 ~ 20) mV	1.8×10^{-3}	
		(20 ~ 50) mV	8.6×10^{-4}	
		(50 ~ 100) mV	6.0×10^{-4}	
		(100 ~ 200) mV	4.5×10^{-4}	
		(200 ~ 500) mV	3.4×10^{-4}	
		500 mV ~ 1 V	4.0×10^{-4}	
		(1 ~ 2) V	3.0×10^{-4}	
		(2 ~ 5) V	3.4×10^{-4}	
		(5 ~ 10) V	4.0×10^{-4}	
		(10 ~ 20) V	3.0×10^{-4}	
		(20 ~ 50) V	3.0×10^{-4}	
		(50 ~ 100) V	3.0×10^{-4}	
AC Voltage		1 kHz		
		2 mV	2.5×10^{-2}	
		(2 ~ 5) mV	3.5×10^{-3}	
		(5 ~ 10) mV	2.3×10^{-3}	
		(10 ~ 20) mV	1.8×10^{-3}	
		(20 ~ 50) mV	1.4×10^{-3}	
		(50 ~ 100) mV	1.3×10^{-3}	
		(100 ~ 200) mV	1.2×10^{-3}	
		(200 ~ 500) mV	1.2×10^{-3}	
		500 mV ~ 1 V	1.2×10^{-3}	
		(1 ~ 2) V	1.2×10^{-3}	
		(2 ~ 5) V	1.2×10^{-3}	
		(5 ~ 10) V	1.2×10^{-3}	
		(10 ~ 20) V	1.2×10^{-3}	
		(20 ~ 50) V	1.2×10^{-3}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Oscilloscopes	40421			Voltage calibrator,
Bandwidth		(100 ~ 700) mV		/SCTI-I-404-15
		50 kHz	1.7×10^{-2}	
		50 kHz ~ 10 MHz	2.0×10^{-2}	
		(10 ~ 300) MHz	2.5×10^{-2}	
		(300 ~ 500) MHz	3.0×10^{-2}	
		(500 ~ 600) MHz	4.2×10^{-2}	
		(600 ~ 1 000) MHz	4.2×10^{-2}	
		(1 000 ~ 2 000) MHz	4.8×10^{-2}	
		(2 000 ~ 3 000) MHz	4.8×10^{-2}	
Time		1 ns ~ 1 s	1.0×10^{-4}	
		(1 ~ 2) s	5.0×10^{-5}	
		(2 ~ 5) s	2.0×10^{-5}	
Volt/Current recorders	40424			Voltage calibrator,
DC Voltage				Current calibrator,
Positive		1 mV	5.0×10^{-4}	/SCTI-I-404-16
		(1 ~ 10) mV	6.0×10^{-5}	
		(10 ~ 100) mV	1.3×10^{-5}	
		100 mV ~ 1 V	7.0×10^{-6}	
		(1 ~ 10) V	5.0×10^{-6}	
		(10 ~ 100) V	7.0×10^{-6}	
		(100 ~ 300) V	1.3×10^{-5}	
		(300 ~ 500) V	1.0×10^{-5}	
		(500 ~ 1 000) V	9.0×10^{-6}	
Volt/Current recorders	40424			Voltage calibrator,
DC Voltage		1 mV	5.0×10^{-4}	Current calibrator,
Negative		(1 ~ 10) mV	6.0×10^{-5}	/SCTI-I-404-16
		(10 ~ 100) mV	1.3×10^{-5}	
		100 mV ~ 1 V	7.0×10^{-6}	
		(1 ~ 10) V	5.0×10^{-6}	
		(10 ~ 100) V	7.0×10^{-6}	
		(100 ~ 300) V	1.3×10^{-5}	
		(300 ~ 500) V	1.0×10^{-5}	
		(500 ~ 1 000) V	9.0×10^{-6}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Volt/Current recorders	40424			Voltage calibrator,
DC Current		100 μA	1.0×10^{-4}	Current calibrator,
Positive		100 μA ~ 1 mA	5.0×10^{-5}	/SCTI-I-404-16
		(1 ~ 10) mA	4.5×10^{-5}	
		(10 ~ 100) mA	6.0×10^{-5}	
		100 mA ~ 1 A	1.1×10^{-4}	
Negative		100 μA	1.0×10^{-4}	
		100 μA ~ 1 mA	5.0×10^{-5}	
		(1 ~ 10) mA	4.5×10^{-5}	
		(10 ~ 100) mA	6.0×10^{-5}	
		100 mA ~ 1 A	1.1×10^{-4}	
Relay test sets	40425			Digital Multimeter
Output AC Voltage		50 Hz ~ 1 kHz		Current Shunt
		1 V	1.3×10^{-4}	/SCTI-I-404-17
		(1 ~ 10) V	1.2×10^{-4}	
		(10 ~ 100) V	1.2×10^{-4}	
		(100 ~ 200) V	1.5×10^{-4}	
		(200 ~ 300) V	1.3×10^{-4}	
		(300 ~ 500) V	1.2×10^{-4}	
		(500 ~ 700) V	1.3×10^{-4}	
Output AC Current		50 Hz ~ 1 kHz		
		100 mA	5.3×10^{-4}	
		100 mA ~ 1 A	9.3×10^{-4}	
		(1 ~ 10) A	1.2×10^{-3}	
		(10 ~ 20) A	1.3×10^{-3}	
		(20 ~ 30) A	1.3×10^{-3}	
		(30 ~ 50) A	1.2×10^{-3}	
		(50 ~ 100) A	1.2×10^{-3}	
Output DC Voltage		1 V	6.0×10^{-5}	
		(1 ~ 10) V	1.0×10^{-5}	
		(10 ~ 100) V	1.0×10^{-5}	
		(100 ~ 200) V	5.0×10^{-5}	
		(200 ~ 300) V	3.3×10^{-5}	
		(300 ~ 500) V	2.0×10^{-5}	
		(500 ~ 700) V	1.4×10^{-5}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Relay test sets	40425			Digital Multimeter
Output DC Current		100 mA	8.0×10^{-5}	Current Shunt
		100 mA ~ 1 A	2.2×10^{-4}	/SCTI-I-404-17
		(1 ~ 10) A	5.0×10^{-4}	
		(10 ~ 20) A	6.0×10^{-4}	
		(20 ~ 30) A	6.0×10^{-4}	
		(30 ~ 50) A	5.8×10^{-4}	
		(50 ~ 100) A	6.0×10^{-4}	
Time				
		100 μs	1.0×10^{-2}	
		100 μs ~ 1 ms	2.0×10^{-3}	
		(1 ~ 10) ms	2.0×10^{-3}	
		(10 ~ 100) ms	2.0×10^{-3}	
		100 ms ~ 1 s	2.0×10^{-3}	
		(1 ~ 5) s	4.0×10^{-4}	
LF signal generators	40426			GPS,
Frequency		10 Hz	1.0×10^{-5}	General frequency,
		(10 ~ 100) Hz	1.0×10^{-6}	Attenuation calibrator,
		100 Hz ~ 1 kHz	1.0×10^{-7}	Modulation meter
		(1 ~ 10) kHz	1.0×10^{-8}	/SCTI-I-404-18
		(10 ~ 100) kHz	1.0×10^{-8}	
		100 kHz ~ 1 MHz	1.0×10^{-8}	
		(1 ~ 10) MHz	1.0×10^{-9}	
		(10 ~ 100) MHz	1.0×10^{-10}	
		100 MHz ~ 1 GHz	6.0×10^{-11}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
LF signal generators	40426			GPS,
Level		100 kHz ~ 1 GHz		General frequency,
		13 dBm	7.7×10^{-3}	Attenuation calibrator,
		(13 ~ -10) dBm	1.0×10^{-2}	Modulation meter
		(-10 ~ -20) dBm	5.0×10^{-3}	/SCTI-I-404-18
		(-20 ~ -30) dBm	8.7×10^{-3}	
		(-30 ~ -40) dBm	7.5×10^{-3}	
		(-40 ~ -50) dBm	6.0×10^{-3}	
		(-50 ~ -60) dBm	5.2×10^{-3}	
		(-60 ~ -70) dBm	9.0×10^{-3}	
		(-70 ~ -80) dBm	7.9×10^{-3}	
		(-80 ~ -90) dBm	7.0×10^{-3}	
		(-90 ~ -100) dBm	6.2×10^{-3}	
		(-100 ~ -110) dBm	5.7×10^{-3}	
		(-110 ~ -120) dBm	5.4×10^{-3}	
Flatness		100 kHz ~ 1 GHz		
		13 dBm	7.7×10^{-3}	
		(13 ~ -10) dBm	1.0×10^{-2}	
		(-10 ~ -20) dBm	5.0×10^{-3}	
AM		(5 ~ 90) %	2.0×10^{-2}	
FM		0.5 kHz	5.0×10^{-2}	
		(0.5 ~ 100) kHz	1.2×10^{-2}	
Transistor curve tracers	40432			Digital Multimeter
Output Voltage		1 mV	6.0×10^{-2}	/SCTI-I-404-25
Positive		(1 ~ 10) mV	6.0×10^{-3}	
		(10 ~ 100) mV	6.0×10^{-4}	
		(100 ~ 500) mV	1.2×10^{-4}	
		500 mV ~ 1 V	6.0×10^{-4}	
		(1 ~ 5) V	1.2×10^{-4}	
		(5 ~ 10) V	6.0×10^{-4}	
		(10 ~ 50) V	1.2×10^{-4}	
		(50 ~ 100) V	6.0×10^{-4}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Transistor curve tracers	40432			Digital Multimeter
Output Voltage		-1 mV	6.0×10^{-2}	/SCTI-I-404-25
Negative		(-1 ~ -10) mV	6.0×10^{-3}	
		(-10 ~ -100) mV	6.0×10^{-4}	
		(-100 ~ -500) mV	1.2×10^{-4}	
		-500 mV ~ -1 V	6.0×10^{-4}	
		(-1 ~ -5) V	1.2×10^{-4}	
		(-5 ~ -10) V	6.0×10^{-4}	
		(-10 ~ -50) V	1.2×10^{-4}	
		(-50 ~ -100) V	6.0×10^{-4}	
Output Curretn		1 nA	6.0×10^{-2}	
Positive		(1 ~ 10) nA	9.0×10^{-3}	
		(10 ~ 100) nA	5.2×10^{-3}	
		(100 ~ 500) nA	5.0×10^{-3}	
		500 nA ~ 1 μA	3.0×10^{-3}	
		(1 ~ 5) μA	2.0×10^{-3}	
		(5 ~ 10) μA	1.6×10^{-3}	
		(10 ~ 50) μA	1.4×10^{-3}	
		(50 ~ 100) μA	6.0×10^{-4}	
		(100 ~ 500) μA	1.2×10^{-4}	
		500 μA ~ 1 mA	6.0×10^{-4}	
		(1 ~ 5) mA	1.2×10^{-4}	
		(5 ~ 10) mA	6.0×10^{-4}	
		(10 ~ 50) mA	1.4×10^{-4}	
		(50 ~ 100) mA	6.0×10^{-4}	
		(100 ~ 500) mA	2.6×10^{-4}	
		500 mA ~ 1 A	6.0×10^{-4}	
		(1 ~ 2) A	7.5×10^{-4}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Transistor curve tracers	40432			Digital Multimeter
Output Curretn		-1 nA	6.0×10^{-2}	/SCTI-I-404-25
Negative		(-1 ~ -10) nA	9.0×10^{-3}	
		(-10 ~ -100) nA	5.2×10^{-3}	
		(-100 ~ -500) nA	5.0×10^{-3}	
		-500 nA ~ -1 μA	3.0×10^{-3}	
		(-1 ~ -5) μA	2.0×10^{-3}	
		(-5 ~ -10) μA	1.6×10^{-3}	
		(-10 ~ -50) μA	1.4×10^{-3}	
		(-50 ~ -100) μA	6.0×10^{-4}	
		(-100 ~ -500) μA	1.2×10^{-4}	
		-500 μA ~ -1 mA	6.0×10^{-4}	
		(-1 ~ -5) mA	1.2×10^{-4}	
		(-5 ~ -10) mA	6.0×10^{-4}	
		(-10 ~ -50) mA	1.4×10^{-4}	
		(-50 ~ -100) mA	6.0×10^{-4}	
		(-100 ~ -500) mA	2.6×10^{-4}	
		-500 mA ~ -1 A	6.0×10^{-4}	
		(-1 ~ -2) A	7.5×10^{-4}	
Input Voltage		1 mV	1.0×10^{-1}	
		(1 ~ 10) mV	1.0×10^{-2}	
		(10 ~ 100) mV	1.0×10^{-3}	
		(100 ~ 500) mV	2.0×10^{-4}	
		500 mV ~ 1 V	1.0×10^{-3}	
		(1 ~ 5) V	2.0×10^{-4}	
		(5 ~ 10) V	1.0×10^{-3}	
		(10 ~ 50) V	2.0×10^{-4}	
		(50 ~ 100) V	1.0×10^{-3}	
		(100 ~ 500) V	2.0×10^{-4}	
		(500 ~ 1 000) V	1.0×10^{-3}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Transistor curve tracers	40432			Digital Multimeter
Input Current		1 nA	1.0×10^{-2}	/SCTI-I-404-25
		(1 ~ 10) nA	1.0×10^{-3}	
		(10 ~ 50) nA	8.0×10^{-4}	
		(50 ~ 100) nA	1.0×10^{-3}	
		(100 ~ 500) nA	4.0×10^{-4}	
		500 nA ~ 1 μA	2.3×10^{-2}	
		(1 ~ 5) μA	4.8×10^{-3}	
		(5 ~ 10) μA	3.0×10^{-3}	
		(10 ~ 50) μA	8.0×10^{-4}	
		(50 ~ 100) μA	1.0×10^{-3}	
		(100 ~ 500) μA	2.0×10^{-4}	
		500 μA ~ 1 mA	1.0×10^{-3}	
		(1 ~ 5) mA	4.0×10^{-4}	
		(5 ~ 10) mA	1.0×10^{-3}	
		(10 ~ 50) mA	4.0×10^{-4}	
		(50 ~ 100) mA	1.0×10^{-3}	
		(100 ~ 500) mA	4.0×10^{-4}	
		500 mA ~ 1 A	1.0×10^{-3}	
		(1 ~ 5) A	8.0×10^{-4}	
		(5 ~ 10) A	1.0×10^{-3}	
AC/DC high voltage generators	40434			High Voltage Meter /SCTI-I-404-21
DC Voltage		0.1 kV	6.0×10^{-2}	
		(0.1 ~ 1) kV	6.0×10^{-3}	
		(1 ~ 5) kV	6.6×10^{-3}	
		(5 ~ 10) kV	6.1×10^{-3}	
		(10 ~ 20) kV	1.4×10^{-2}	
		(20 ~ 30) kV	1.3×10^{-2}	
		(30 ~ 40) kV	1.3×10^{-2}	
		(40 ~ 50) kV	1.2×10^{-2}	
		(50 ~ 60) kV	1.3×10^{-2}	
		(60 ~ 70) kV	1.2×10^{-2}	
		(70 ~ 80) kV	1.2×10^{-2}	
		(80 ~ 90) kV	1.2×10^{-2}	
		(90 ~ 95) kV	1.2×10^{-2}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC/DC high voltage probes	40435			High voltage generator, Digital Multimeter /SCTI-I-404-22
DC Voltage		0.1 kV	1.0×10^{-2}	
		(0.1 ~ 0.5) kV	2.0×10^{-3}	
		(0.5 ~ 1) kV	1.0×10^{-3}	
		(1 ~ 5) kV	7.5×10^{-3}	
		(5 ~ 10) kV	6.3×10^{-3}	
		(10 ~ 20) kV	1.2×10^{-2}	
		(20 ~ 30) kV	1.2×10^{-2}	
		(30 ~ 40) kV	1.2×10^{-2}	
		(40 ~ 50) kV	1.2×10^{-2}	
		(50 ~ 60) kV	1.2×10^{-2}	
AC Voltage		60 Hz		
		0.1 kV	1.0×10^{-2}	
		(0.1 ~ 0.5) kV	2.0×10^{-3}	
		(0.5 ~ 1) kV	1.0×10^{-3}	
		(1 ~ 3) kV	1.4×10^{-2}	
		(3 ~ 10) kV	1.3×10^{-2}	
		(10 ~ 20) kV	1.2×10^{-2}	
		(20 ~ 30) kV	1.3×10^{-2}	
Telephone testers	40437			Frequency Measurement Multimeter, Level Measurement /SCTI-I-404-23
Belling Frequency		(15 ~ 90) Hz	4.0×10^{-3}	
Belling Voltage		60 Hz ~ 1 kHz		
		10 V	6.0×10^{-3}	
		(10 ~ 50) V	1.2×10^{-3}	
		(50 ~ 70) V	8.6×10^{-4}	
		(70 ~ 80) V	7.5×10^{-4}	
		(80 ~ 100) V	6.0×10^{-3}	
		(100 ~ 150) V	4.0×10^{-3}	
Tone Level		(0 ~ -20) dBm	6.0×10^{-2}	
Tone Frequency HIGH		(1 200 ~ 1 700) Hz	6.1×10^{-4}	
LOW		(500 ~ 1 000) Hz	6.5×10^{-4}	
Line Voltage		(40 ~ 50) V	1.5×10^{-3}	
Loop Current		(10 ~ 100) mA	6.0×10^{-2}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Video signal analyzers	40438			
Vector scopes				Signal Generation Platform
Color Bar Decoding Accuracy(Gain)				/SCTI-I-404-24
NTSC		(0 ~ 1 000) mV	9.0×10^{-3}	
PAL		(0 ~ 1 000) mV	9.0×10^{-3}	
Color Bar Decoding Accuracy(Phase)				
NTSC		(0 ~ 360)°	0.8°	
PAL		(0 ~ 360)°	0.8°	
Frequency				
NTSC		(0.1 ~ 5) MHz	2.8×10^{-7}	
PAL		(0.1 ~ 5) MHz	2.3×10^{-7}	
Demodulation Bandwidth Test		-3 dB		
NTSC		(0.1 ~ 5) MHz	2.8×10^{-5}	
PAL		(0.1 ~ 5) MHz	2.3×10^{-5}	
Video signal moniter				
Color Bar tester				
NTSC		(0 ~ 714) mV	9.1×10^{-3}	
		(714 ~ 1 000) mV	1.3×10^{-2}	
PAL		(0 ~ 700) mV	9.1×10^{-3}	
		(700 ~ 980) mV	1.4×10^{-2}	
Frequency Test		10 Hz	6.0×10^{-5}	
		(10 ~ 100) Hz	6.0×10^{-6}	
		100 Hz ~ 100 kHz	1.0×10^{-6}	
Horizontal Frequency Test		(0.1 ~ 10) MHz	1.0×10^{-4}	
NTSC Gain Frequency		50 kHz ~ 20 MHz		
Response Test		714 mV	2.2×10^{-2}	
		(0 ~ 1 000) mV	1.6×10^{-2}	
PAL Gain Frequency		50 kHz ~ 20 MHz		
Response Test		714 mV	2.3×10^{-2}	
		(0 ~ 980) mV	1.6×10^{-2}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Fluxmeters	40503			Fluxmeter Calibrator,
Magnetic Flux		(1 ~ 10) mWb	8.0×10^{-4}	Multimeter
		10 mWb ~ 1 Wb	7.0×10^{-4}	/SCTI-I-405-01
		(1 ~ 10) Wb	6.0×10^{-4}	
Magnetometers	40508			Helmholtz Coil
Magnetic Flux Density		(0.1 ~ 1) mT	1.3×10^{-2}	Reference Magnet
		(1 ~ 25) mT	3.3×10^{-3}	/SCTI-I-405-02
		50 mT	8.4×10^{-3}	
		100 mT	7.8×10^{-3}	
		200 mT	6.4×10^{-3}	
		500 mT	5.9×10^{-3}	
		1 000 mT	9.5×10^{-3}	

406. RF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Coaxial attenuators	40602			Network Analyzer,
Attenuation		9 kHz		Calibration Kit,
		(0 ~ 10) dB	0.07 dB	Signal Generator,
		(10 ~ 20) dB	0.07 dB	Measuring Receiver
		(20 ~ 30) dB	0.07 dB	/SCTI-I-406-15
		(30 ~ 40) dB	0.12 dB	
		(40 ~ 50) dB	0.12 dB	
		(50 ~ 60) dB	0.24 dB	
		(9 ~ 100) kHz		
		(0 ~ 10) dB	0.12 dB	
		(10 ~ 20) dB	0.14 dB	
		(20 ~ 30) dB	0.15 dB	
		(30 ~ 40) dB	0.16 dB	
		(40 ~ 50) dB	0.18 dB	
		(50 ~ 60) dB	0.26 dB	

406. RF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Coaxial attenuators	40602			Network Analyzer,
Attenuation		100 kHz ~ 2.5 MHz		Calibration Kit,
		(0 ~ 10) dB	0.12 dB	Signal Generator,
		(10 ~ 20) dB	0.14 dB	Measuring Receiver
		(20 ~ 30) dB	0.15 dB	/SCTI-I-406-15
		(30 ~ 40) dB	0.16 dB	
		(40 ~ 50) dB	0.18 dB	
		(50 ~ 60) dB	0.26 dB	
		2.5 MHz ~ 18 GHz		
		(0 ~ 10) dB	0.16 dB	
		(10 ~ 20) dB	0.17 dB	
		(20 ~ 30) dB	0.17 dB	
		(30 ~ 40) dB	0.22 dB	
		(40 ~ 50) dB	0.22 dB	
		(50 ~ 60) dB	0.22 dB	
		(60 ~ 70) dB	0.60 dB	
		(70 ~ 80) dB	0.60 dB	
		(80 ~ 90) dB	0.60 dB	
		(90 ~ 100) dB	0.60 dB	
		(100 ~ 110) dB	0.60 dB	
Burst pulse generators	40605			Oscilloscopes,
Voltage		Open		Attenuators
		20 V ~ 4.4 kV	1.2×10^{-2}	/SCTI-I-406-16
		-20 V ~ -4.4 kV	1.2×10^{-2}	
		1 000 Ω		
		19 V ~ 4.18 kV	1.3×10^{-2}	
		-19 V ~ -4.18 kV	1.3×10^{-2}	
		50 Ω		
		10 V ~ 2.2 kV	1.3×10^{-2}	
		-10 V ~ -2.2 kV	1.3×10^{-2}	
Rise time		1 ns	2.0×10^{-3}	
		(1 ~5) ns	4.0×10^{-4}	
		5 ns ~ 100 ms	2.0×10^{-3}	

406. RF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Burst pulse generators	40605			Oscilloscopes,
Pulse width		(1 ~ 10) ns	2.0×10^{-3}	Attenuators
		(10 ~50) ns	4.0×10^{-4}	/SCTI-I-406-16
		(50 ~ 100) ns	2.0×10^{-3}	
		(100 ~ 150) ns	1.4×10^{-3}	
		150 ns ~ 1 s	2.0×10^{-3}	
Repetition frequency		1 µs ~ 1 s	2.0×10^{-3}	
		(1 ~ 5) s	4.0×10^{-4}	
Period		1 µs ~ 1 s	2.0×10^{-3}	
		(1 ~ 5) s	4.0×10^{-4}	
Duration		1 µs ~ 1 s	2.0×10^{-3}	
RF power meter calibrators	40607			Multimeter
Power Range		100 mW	13 µW	/SCTI-I-406-17
		30 mW	1.4 µW	
		10 mW	1.4 µW	
		3 mW	0.14 µW	
		1 mW	0.14 µW	
		300 µW	20 nW	
		100 µW	4.0 nW	
		30 µW	2.0 nW	
		10 µW	2.1 nW	
		3 µW	0.40 nW	
EMC transducers ; current probes, absorbing clamps, etc.	40608			Network Analyzer, Calibration Kit /SCTI-I-406-24
EMC trandusers		9 kHz	1.8 dB	/SCTI-I-406-25
Transfer impedance		9 kHz ~ 1 GHz	1.8 dB	
Absorbing clamps		30 MHz	1.8 dB	
Insertion loss		30 MHz ~ 1 GHz	1.8 dB	

406. RF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Coaxial directional couplers/splitters	40610			Network Analyzer, Calibration Kit /SCTI-I-406-18
Coupling factor		9 kHz		
		(0 ~ 10) dB	0.07 dB	
		(10 ~ 20) dB	0.07 dB	
		(20 ~ 30) dB	0.06 dB	
		(30 ~ 40) dB	0.12 dB	
		(40 ~ 50) dB	0.12 dB	
		(50 ~ 60) dB	0.24 dB	
		(9 ~ 100) kHz		
		(0 ~ 10) dB	0.12 dB	
		(10 ~ 20) dB	0.14 dB	
		(20 ~ 30) dB	0.15 dB	
		(30 ~ 40) dB	0.16 dB	
		(40 ~ 50) dB	0.18 dB	
		(50 ~ 60) dB	0.26 dB	
		100 kHz ~ 6 GHz		
		(0 ~ 10) dB	0.12 dB	
		(10 ~ 20) dB	0.15 dB	
		(20 ~ 30) dB	0.15 dB	
		(30 ~ 40) dB	0.16 dB	
		(40 ~ 50) dB	0.18 dB	
		(50 ~ 60) dB	0.26 dB	
		(6 ~18) GHz		
		(0 ~ 10) dB	0.21 dB	
		(10 ~ 20) dB	0.23 dB	
		(20 ~ 30) dB	0.23 dB	
		(30 ~ 40) dB	0.30 dB	
		(40 ~ 50) dB	0.81 dB	
		(50 ~ 60) dB	2.3 dB	

406. RF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Electrostatic discharge generator	40613			Electrostatic Discharge Generator /SCTI-I-406-14
Peak current		0.2 kV, 0.75 A	1.3×10^{-2}	
		(0.2 ~ 20) kV, (0.75 ~ 75) A	1.2×10^{-2}	
		(20 ~ 30) kV, (75 ~ 112.5) A	1.3×10^{-2}	
		-0.2 kV, -0.75 A	1.3×10^{-2}	
		-(0.2 ~ 20) kV, -(0.75 ~ 75) A	1.2×10^{-2}	
		-(20 ~ 30) kV, -(75 ~ 112.5) A	1.3×10^{-2}	
Current at 30 ns		0.2 kV, 0.4 A	1.3×10^{-2}	
		(0.2 ~ 30) kV, (0.4 ~ 60) A	1.2×10^{-2}	
		-0.2 kV, -0.4 A	1.3×10^{-2}	
		-(0.2 ~ 30) kV, -(0.4 ~ 60) A	1.2×10^{-2}	
Current at 60 ns		0.2 kV, 0.2 A	1.3×10^{-2}	
		(0.2 ~ 30) kV, (0.2 ~ 30) A	1.3×10^{-2}	
		-0.2 kV, -0.2 A	1.3×10^{-2}	
		-(0.2 ~ 30) kV, -(0.2 ~ 30) A	1.3×10^{-2}	
Current at 65 ns		0.2 kV, 0.4 A	1.3×10^{-2}	
		(0.2 ~ 30) kV, (0.4 ~ 60) A	1.2×10^{-2}	
		-0.2 kV, -0.4 A	1.3×10^{-2}	
		-(0.2 ~ 30) kV, -(0.4 ~ 60) A	1.2×10^{-2}	
Current at 130 ns		0.2 kV, 0.2 A	1.3×10^{-2}	
		(0.2 ~ 30) kV, (0.2 ~ 30) A	1.3×10^{-2}	
		-0.2 kV, -0.2 A	1.3×10^{-2}	
		-(0.2 ~ 30) kV, -(0.2 ~ 30) A	1.3×10^{-2}	
Current at 180 ns		0.2 kV, 0.055 A	1.3×10^{-2}	
		(0.2 ~ 8) kV, (0.055 ~ 2.2) A	1.3×10^{-2}	
		(8 ~ 30) kV, (2.2 ~ 8.25) A	1.2×10^{-2}	
		-0.2 kV, -0.055 A	1.3×10^{-2}	
		-(0.2 ~ 8) kV, -(0.055 ~ 2.2) A	1.2×10^{-2}	
		-(8 ~ 30) kV, -(2.2 ~ 8.25) A	1.2×10^{-2}	

406. RF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Electrostatic discharge generator	40613			Electrostatic Discharge Generator /SCTI-I-406-14
Current at 360 ns		0.2 kV, 0.03 A	1.3×10^{-2}	
		(0.2 ~ 8) kV, (0.03 ~ 1.2) A	1.2×10^{-2}	
		(8 ~ 30) kV, (1.2 ~ 4.5) A	1.2×10^{-2}	
		-0.2 kV, -0.03 A	1.3×10^{-2}	
		-(0.2 ~ 8) kV, -(0.03~ 1.2) A	1.2×10^{-2}	
		-(8 ~ 30) kV, -(1.2 ~ 4.5) A	1.2×10^{-2}	
Current at 400 ns		0.2 kV, 0.055 A	1.3×10^{-2}	
		(0.2 ~ 8) kV, (0.055 ~ 2.2) A	1.3×10^{-2}	
		(8 ~ 30) kV, (2.2 ~ 8.25) A	1.2×10^{-2}	
		-0.2 kV, -0.055 A	1.3×10^{-2}	
		-(0.2 ~ 8) kV, -(0.055 ~ 2.2) A	1.3×10^{-2}	
		-(8 ~ 30) kV, -(2.2 ~ 8.25) A	1.2×10^{-2}	
Current at 800 ns		0.2 kV, 0.03 A	1.3×10^{-2}	
		(0.2 ~ 8) kV, (0.03 ~ 1.2) A	1.2×10^{-2}	
		(8 ~ 30) kV, (1.2 ~ 4.5) A	1.2×10^{-2}	
		-0.2 kV, -0.03 A	1.3×10^{-2}	
		-(0.2 ~ 8) kV, -(0.03~ 1.2) A	1.2×10^{-2}	
		-(8 ~ 30) kV, -(1.2 ~ 4.5) A	1.2×10^{-2}	
RISE TIME		(0.6 ~ 1) ns	3.8×10^{-3}	
Line impedance stabilization networs	40618			Network Analyzer, Calibration Kit /SCTI-I-406-26 /SCTI-I-406-27
Impedance		9 kHz	1.5 Ω	
		(9 ~ 100) kHz	1.6 Ω	
		100 kHz ~ 1 GHz	0.66 Ω	
Insertion Loss		9 kHz	0.09 dB	
		9 kHz ~ 1 GHz	0.09 dB	
Phase Angle		9 kHz	4.2°	
		(9 ~ 100) kHz	4.2°	
		100 kHz ~ 50 MHz	3.6°	
		50 MHz ~ 1 GHz	1.2°	

406. RF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Line impedance stabilization networs	40618			Network Analyzer, Calibration Kit /SCTI-I-406-26 /SCTI-I-406-27
CDN				
Impedance		9 kHz	8.3 Ω	
		(9 ~ 100) kHz	8.4 Ω	
		100 kHz ~ 1 GHz	4.7 Ω	
Insertion Loss		9 kHz	0.09 dB	
		9 kHz ~ 1 GHz	0.09 dB	
Phase Angle		9 kHz	4.2°	
		(9 ~ 100) kHz	4.2°	
		100 kHz ~ 50 MHz	3.6°	
		50 MHz ~ 1 GHz	1.2°	
Mobile communication test sets	40621			GPS,Frequency Counter Measuring Receiver Sensor Module Audio Analyzer Power Meter,Sensor Multimeter Spectrum Analyzer /SCTI-I-406-09
Output Frequency				
		20 Hz	1 mHz	
		20 Hz ~ 500 kHz	1 mHz	
		500 kHz ~ 100 MHz	0.01 Hz	
		(100 ~ 500) MHz	0.03 Hz	
		500 MHz ~ 1 GHz	0.06 Hz	
		(1 ~ 2) GHz	0.12 Hz	
		(2 ~ 3) GHz	0.18 Hz	
		(3 ~ 6) GHz	1 Hz	
Output Power		(0 ~ 20) dBm		
		100 kHz	0.07 dB	
		100 kHz ~ 1 GHz	0.08 dB	
		(1 ~ 6) GHz	0.09 dB	

406. RF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Mobile communication	40621			GPS,Frequency Counter
test sets				Measuring Receiver
Output Power		100 kHz		Sensor Module
		(0 ~ -10) dBm	0.17 dB	Audio Analyzer
		(-10 ~ -20) dBm	0.17 dB	Power Meter,Sensor
		(-20 ~ -30) dBm	0.17 dB	Multimeter
		(-30 ~ -40) dBm	0.17 dB	Spectrum Analyzer
		(-30 ~ -50) dBm	0.17 dB	/SCTI-I-406-09
		(-50 ~ -60) dBm	0.17 dB	
		(-60 ~ -70) dBm	0.18 dB	
		(-70 ~ -80) dBm	0.18 dB	
		(-80 ~ -90) dBm	0.18 dB	
		(-90 ~ -100) dBm	0.18 dB	
		(-100 ~ -110) dBm	0.18 dB	
		(-110 ~ -120) dBm	0.18 dB	
		100 kHz ~ 2.5 MHz		
		(0 ~ -10) dBm	0.17 dB	
		(-10 ~ -20) dBm	0.17 dB	
		(-20 ~ -30) dBm	0.17 dB	
		(-30 ~ -40) dBm	0.17 dB	
		(-30 ~ -50) dBm	0.17 dB	
		(-50 ~ -60) dBm	0.17 dB	
		(-60 ~ -70) dBm	0.18 dB	
		(-70 ~ -80) dBm	0.18 dB	
		(-80 ~ -90) dBm	0.18 dB	
		(-90 ~ -100) dBm	0.18 dB	
		(-100 ~ -110) dBm	0.18 dB	
		(-110 ~ -120) dBm	0.18 dB	

406. RF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Mobile communication test sets	40621			GPS,Frequency Counter Measuring Receiver
Output Power		2.5 MHz ~ 6 GHz		Sensor Module
		(0 ~ -10) dBm	0.23 dB	Audio Analyzer
		(-10 ~ -20) dBm	0.24 dB	Power Meter,Sensor
		(-20 ~ -30) dBm	0.24 dB	Multimeter
		(-30 ~ -40) dBm	0.28 dB	Spectrum Analyzer
		(-30 ~ -50) dBm	0.28 dB	/SCTI-I-406-09
		(-50 ~ -60) dBm	0.29 dB	
		(-60 ~ -70) dBm	0.62 dB	
		(-70 ~ -80) dBm	0.62 dB	
		(-80 ~ -90) dBm	0.62 dB	
		(-90 ~ -100) dBm	0.63 dB	
		(-100 ~ -110) dBm	0.63 dB	
		(-110 ~ -120) dBm	0.64 dB	
Output FM modulation		(0.5 ~ 400) kHz	2.7×10^{-2}	
Output FM Distortion		(0 ~ 10) %	0.015 %	
Output AM modulation		(10 ~ 90) %	2.7×10^{-2}	
Output AM Distortion		(0 ~ 10) %	0.015 %	
Output Harmonics		10 kHz ~ 3 GHz	0.32 dB	
		(3 ~ 6) GHz	0.79 dB	
Output AC Voltage		10 mV		
		40 Hz	17 μV	
		40 Hz ~ 10 kHz	17 μV	
		(10 ~ 100) kHz	68 μV	
		(10 ~ 100) mV		
		40 Hz	21 μV	
		40 Hz ~ 10 kHz	25 μV	
		(10 ~ 100) kHz	0.12 mV	

406. RF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Mobile communication test sets	40621			GPS,Frequency Counter Measuring Receiver Sensor Module Audio Analyzer Power Meter,Sensor Multimeter Spectrum Analyzer /SCTI-I-406-09
Output AC Voltage		100 mV ~ 1 V		
		40 Hz	0.15 μV	
		40 Hz ~ 10 kHz	0.21 μV	
		(10 ~ 100) kHz	0.96 mV	
		(1 ~ 10) V		
		40 Hz	1.5 μV	
		40 Hz ~ 10 kHz	2.0 μV	
		(10 ~ 100) kHz	9.6 mV	
Output DC Voltage		1 mV	0.9 μV	
		(1 ~ 10) mV	1.0 μV	
		(10 ~ 100) mV	1.7 μV	
		100 mV ~ 1 V	10 μV	
		(1 ~ 10) V	0.10 mV	
Input Frequency		20 Hz	0.01 Hz	
		(20 ~ 100) Hz	0.01 Hz	
		100 Hz ~ 500 kHz	0.1 Hz	
		500 kHz ~ 6 GHz	1.0 Hz	
Input Power		100 kHz		
		(20 ~ 0) dBm	0.19 dB	
		(0 ~ -10) dBm	0.24 dB	
		(-10 ~ -20) dBm	0.24 dB	
		(-20 ~ -30) dBm	0.24 dB	
		(-30 ~ -40) dBm	0.24 dB	
		(-30 ~ -50) dBm	0.24 dB	
		(-50 ~ -60) dBm	0.24 dB	
		(-60 ~ -70) dBm	0.24 dB	
		(-70 ~ -80) dBm	0.25 dB	
		(-80 ~ -90) dBm	0.25 dB	
		(-90 ~ -100) dBm	0.25 dB	
		(-100 ~ -110) dBm	0.25 dB	
		(-110 ~ -120) dBm	0.25 dB	

406. RF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Mobile communication test sets	40621			GPS,Frequency Counter Measuring Receiver
Input Power		100 kHz ~ 2.5 GHz		Sensor Module
		(20 ~ 0) dBm	0.19 dB	Audio Analyzer
		(0 ~ -10) dBm	0.24 dB	Power Meter,Sensor
		(-10 ~ -20) dBm	0.24 dB	Multimeter
		(-20 ~ -30) dBm	0.24 dB	Spectrum Analyzer
		(-30 ~ -40) dBm	0.24 dB	/SCTI-I-406-09
		(-30 ~ -50) dBm	0.24 dB	
		(-50 ~ -60) dBm	0.24 dB	
		(-60 ~ -70) dBm	0.24 dB	
		(-70 ~ -80) dBm	0.25 dB	
		(-80 ~ -90) dBm	0.25 dB	
		(-90 ~ -100) dBm	0.25 dB	
		(-100 ~ -110) dBm	0.25 dB	
		(-110 ~ -120) dBm	0.25 dB	
		2.5 MHz ~ 6 GHz		
		(20 ~ 0) dBm	0.19 dB	
		(0 ~ -10) dBm	0.24 dB	
		(-10 ~ -20) dBm	0.25 dB	
		(-20 ~ -30) dBm	0.25 dB	
		(-30 ~ -40) dBm	0.29 dB	
		(-30 ~ -50) dBm	0.29 dB	
		(-50 ~ -60) dBm	0.29 dB	
		(-60 ~ -70) dBm	0.62 dB	
		(-70 ~ -80) dBm	0.62 dB	
		(-80 ~ -90) dBm	0.62 dB	
		(-90 ~ -100) dBm	0.62 dB	
		(-100 ~ -110) dBm	0.62 dB	
		(-110 ~ -120) dBm	0.63 dB	
Input FM modulation		(0.5 ~ 400) kHz	2.7×10^{-2}	
Input AM modulation		(10 ~ 90) %	2.7×10^{-2}	
Input AC Voltage		10 mV		
		40 Hz	10 μV	
		40 Hz ~ 10 kHz	10 μV	
		(10 ~ 100) kHz	25 μV	

406. RF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Mobile communication test sets	40621			GPS,Frequency Counter Measuring Receiver Sensor Module Audio Analyzer Power Meter,Sensor Multimeter Spectrum Analyzer /SCTI-I-406-09
Input AC Voltage		(10 ~ 100) mV		
		40 Hz	19 μV	
		40 Hz ~ 10 kHz	16 μV	
		(10 ~ 100) kHz	0.06 mV	
		100 mV ~ 1 V		
		40 Hz	0.13 mV	
		40 Hz ~ 10 kHz	0.08 mV	
		(10 ~ 100) kHz	0.15 mV	
		(1 ~ 10) V		
		40 Hz	2 μV	
		40 Hz ~ 10 kHz	1 μV	
		(10 ~ 100) kHz	1.5 mV	
Input DC Voltage		1 mV	0.9 μV	
		(1 ~ 10) mV	0.9 μV	
		(10 ~ 100) mV	1.5 μV	
		100 mV ~ 1 V	8 μV	
		(1 ~ 10) V	0.05 mV	
Network analyzers	40623			GPS,Frequency Counter Power Meter,Sensor Measuring Receiver Sensor Module Calibration Kit SWR(1.10/1.50/2.00) /SCTI-I-406-07
Frequency Accuracy		9 kHz	0.001 Hz	
		(9 ~ 500) kHz	0.001 Hz	
		500 kHz ~ 100 MHz	0.01 Hz	
		100 MHz ~ 1 GHz	0.06 Hz	
		(1 ~ 2) GHz	0.12 Hz	
		(2 ~ 3) GHz	0.18 Hz	
		(3 ~ 12) GHz	1 Hz	
		(12 ~ 18) GHz	2 Hz	
Output Power Flatness		0 dBm		
		9 kHz	0.08 dB	
		9 kHz ~ 1 GHz	0.07 dB	
		(1 ~ 10) GHz	0.09 dB	
		(10 ~ 18) GHz	0.12 dB	

406. RF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Network analyzers	40623			GPS,Frequency Counter
Output Power Linearity		(-15 ~ 10) dBm		Power Meter,Sensor
		9 kHz	0.08 dB	Measuring Receiver
		9 kHz ~ 1 GHz	0.07 dB	Sensor Module
		(1 ~ 10) GHz	0.09 dB	Calibration Kit
		(10 ~ 18) GHz	0.12 dB	SWR(1.10/1.50/2.00)
				/SCTI-I-406-07
Dynamic Accuracy		10 MHz		
		(0 ~ -10) dB	0.16 dB	
		(-10 ~ -20) dB	0.17 dB	
		(-20 ~ -30) dB	0.17 dB	
		(-30 ~ -40) dB	0.22 dB	
		(-40 ~ -50) dB	0.22 dB	
		(-50 ~ -60) dB	0.22 dB	
		(-60 ~ -70) dB	0.60 dB	
		(-70 ~ -80) dB	0.60 dB	
		(-80 ~ -90) dB	0.60 dB	
		(-90 ~ -100) dB	0.60 dB	
		10 MHz ~ 18 GHz		
		(0 ~ -10) dB	0.16 dB	
		(-10 ~ -20) dB	0.17 dB	
		(-20 ~ -30) dB	0.17 dB	
		(-30 ~ -40) dB	0.22 dB	
		(-40 ~ -50) dB	0.22 dB	
		(-50 ~ -60) dB	0.22 dB	
		(-60 ~ -70) dB	0.60 dB	
		(-70 ~ -80) dB	0.60 dB	
		(-80 ~ -90) dB	0.60 dB	
		(-90 ~ -100) dB	0.60 dB	

406. RF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Network analyzers	40623			GPS,Frequency Counter
SWR*		(SWR 1.10)		Power Meter,Sensor
		50 MHz	0.03	Measuring Receiver
		50 MHz ~ 1 GHz	0.03	Sensor Module
		(1 ~ 18) GHz	0.05	Calibration Kit
				SWR(1.10/1.50/2.00)
		(SWR 1.50)		/SCTI-I-406-07
		50 MHz	0.03	
		50 MHz ~ 1 GHz	0.03	
		(1 ~ 18) GHz	0.05	
		(SWR 2.00)		
		50 MHz	0.03	
		50 MHz ~ 1 GHz	0.03	
		(1 ~ 18) GHz	0.05	
Noise impulse simulator	40626			Oscilloscope,
Impulse Voltage		50 V	3.0×10^{-2}	Attenuators
		50 V ~ 3 kV	3.0×10^{-2}	/SCTI-I-406-03
		(3 ~ 4) kV	3.1×10^{-2}	
Impulse Width		50 ns	4.0×10^{-4}	
		(50 ~ 100) ns	2.0×10^{-3}	
		(100 ~ 200) ns	1.0×10^{-3}	
		(200 ~ 400) ns	5.0×10^{-4}	
		(400 ~ 500) ns	4.0×10^{-4}	
		500 ns ~ 1 μs	2.0×10^{-3}	
Rise time		0.1 ns	2.0×10^{-2}	
		(0.1 ~ 100) ns	2.0×10^{-3}	
RF power meters	40635			Range Calibrator,
Zero carryover		(0 ~ 100) nW	0.01 nW	Power Meter, Sensor,
				Multimeter
Instrument accuracy		3 μW ~ 100 mW	3.0×10^{-3}	/SCTI-I-406-05
Power reference level		1 mW	15 μW	

406. RF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Diode power sensors	40636			Power Meter,
Calibration factor		0.1 μW ~ 10 mW		Thermistor Mount,
		9 kHz	2.8×10^{-2}	Network Analyzer
		(9 ~ 50) kHz	2.8×10^{-2}	Calibration Kit
		50 kHz ~ 10 MHz	1.2×10^{-2}	/SCTI-I-406-19
		10 MHz ~ 1 GHz	1.3×10^{-2}	
		(1 ~ 6) GHz	1.5×10^{-2}	
		(6 ~ 10) GHz	1.6×10^{-2}	
		(10 ~ 18) GHz	2.0×10^{-2}	
Thermocouple power sensors	40637			Power Meter,
Calibration factor		0.1 μW ~ 10 mW		Thermistor Mount,
		9 kHz	2.8×10^{-2}	Network Analyzer
		(9 ~ 50) kHz	2.8×10^{-2}	Calibration Kit
		50 kHz ~ 10 MHz	1.2×10^{-2}	/SCTI-I-406-20
		10 MHz ~ 1 GHz	1.3×10^{-2}	
		(1 ~ 6) GHz	1.5×10^{-2}	
		(6 ~ 10) GHz	1.6×10^{-2}	
		(10 ~ 18) GHz	2.0×10^{-2}	
Pulse generators	40638			GPS, Time difference
PERIOD		1 ns ~ 100 ms	1.0×10^{-3}	Measurement
		(100 ~ 900) ms	1.1×10^{-4}	Digital Multimeter
				/SCTI-I-406-01
WIDTH		1 ns ~ 100 ms	1.0×10^{-3}	
		(100 ~ 900) ms	1.1×10^{-4}	
DELAY TIME		1 ns ~ 100 ms	1.0×10^{-3}	
		(100 ~ 900) ms	1.1×10^{-4}	
LEVEL		10 mV	1.7×10^{-4}	
		(10 ~ 100) mV	6.0×10^{-5}	
		100 mV ~ 1 V	5.8×10^{-4}	
		(1 ~ 10) V	6.0×10^{-5}	

406. RF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
RF signal generators	40640			GPS,Frequency Counter
Reference Frequency		10 MHz	0.01 Hz	Audio Analyzer
				Measuring Receiver
Frequency Accuracy		9 kHz	1 mHz	Sensor Module
		(9 ~ 500) kHz	1 mHz	Spectrum Analyzer
		500 kHz ~ 100 MHz	0.01 Hz	Power Meter,Sensor
		(100 ~ 500) MHz	0.03 Hz	/SCTI-I-406-04
		500 MHz ~ 1 GHz	0.06 Hz	
		(1 ~ 2) GHz	0.12 Hz	
		(2 ~ 3) GHz	0.18 Hz	
		(3 ~ 12) GHz	1 Hz	
		(12 ~ 18) GHz	2 Hz	
Absolute Output Level		9 kHz		
		(20 ~ -50) dBm	0.08 dB	
		9 kHz ~ 1 GHz		
		(20 ~ -30) dBm	0.07 dB	
		(-30 ~ -50) dBm	0.08 dB	
		1 GHz ~ 2 GHz		
		(20 ~ -30) dBm	0.09 dB	
		(-30 ~ -50) dBm	0.08 dB	
		(2 ~ 18) GHz		
		(20 ~ -50) dBm	0.09 dB	
Relative Output Level		100 kHz		
		(0 ~ -10) dB	0.07 dB	
		(-10 ~ -20) dB	0.07 dB	
		(-20 ~ -30) dB	0.08 dB	
		(-30 ~ -40) dB	0.08 dB	
		(-30 ~ -50) dB	0.09 dB	
		(-50 ~ -60) dB	0.09 dB	
		(-60 ~ -70) dB	0.09 dB	
		(-70 ~ -80) dB	0.10 dB	
		(-80 ~ -90) dB	0.11 dB	
		(-90 ~ -100) dB	0.11 dB	
		(-100 ~ -110) dB	0.11 dB	
		(-110 ~ -120) dB	0.12 dB	

406. RF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
RF signal generators	40640			GPS,Frequency Counter
Relative Output Level		100 kHz ~ 2.5 MHz		Audio Analyzer
		(0 ~ -10) dB	0.07 dB	Measuring Receiver
		(-10 ~ -20) dB	0.07 dB	Sensor Module
		(-20 ~ -30) dB	0.08 dB	Spectrum Analyzer
		(-30 ~ -40) dB	0.08 dB	Power Meter,Sensor
		(-30 ~ -50) dB	0.09 dB	/SCTI-I-406-04
		(-50 ~ -60) dB	0.09 dB	
		(-60 ~ -70) dB	0.09 dB	
		(-70 ~ -80) dB	0.10 dB	
		(-80 ~ -90) dB	0.11 dB	
		(-90 ~ -100) dB	0.11 dB	
		(-100 ~ -110) dB	0.11 dB	
		(-110 ~ -120) dB	0.12 dB	
		2.5 MHz ~ 10 GHz		
		(0 ~ -10) dB	0.17 dB	
		(-10 ~ -20) dB	0.18 dB	
		(-20 ~ -30) dB	0.18 dB	
		(-30 ~ -40) dB	0.23 dB	
		(-30 ~ -50) dB	0.23 dB	
		(-50 ~ -60) dB	0.23 dB	
		(-60 ~ -70) dB	0.60 dB	
		(-70 ~ -80) dB	0.60 dB	
		(-80 ~ -90) dB	0.60 dB	
		(-90 ~ -100) dB	0.60 dB	
		(-100 ~ -110) dB	0.60 dB	
		(-110 ~ -120) dB	0.61 dB	
		(10 ~ 18) GHz		
		(0 ~ -10) dB	0.19 dB	
		(-10 ~ -20) dB	0.20 dB	
		(-20 ~ -30) dB	0.20 dB	
		(-30 ~ -40) dB	0.24 dB	
		(-30 ~ -50) dB	0.24 dB	
		(-50 ~ -60) dB	0.24 dB	
		(-60 ~ -70) dB	0.60 dB	
		(-70 ~ -80) dB	0.61 dB	
		(-80 ~ -90) dB	0.61 dB	
		(-90 ~ -100) dB	0.61 dB	

406. RF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
RF signal generators	40640			GPS,Frequency Counter
Relative Output Level		(10 ~ 18) GHz		Audio Analyzer
		(-100 ~ -110) dB	0.61 dB	Measuring Receiver
		(-110 ~ -120) dB	0.61 dB	Sensor Module
				Spectrum Analyzer
FM Modulation Distortion		(0 ~ 10) %	0.015 %	Power Meter,Sensor
				/SCTI-I-406-04
FM Modulation		Rate 1 kHz		
		(0.5 ~ 100) kHz	2.7×10^{-2}	
AM Modulation Distortion		(0 ~ 10) %	0.015 %	
AM Modulation		Rate 1 kHz		
		(10 ~ 90) %	2.7×10^{-2}	
PM Modulation Distortion		(0 ~ 10) %	0.015 %	
PM Modulation		Rate 1 kHz		
		(1 ~ 400) rad	4.3×10^{-2}	
Harmonic		10 kHz ~ 3 GHz	0.32 dB	
		(3 ~ 6) GHz	0.79 dB	
		(6 ~ 18) GHz	1.3 dB	
RF spectrum analyzers	40641			GPS,Frequency Counter
Reference Frequency		10 MHz	0.01 Hz	Signal Generator
				STEP ATTENUATOR
Calibrator Output Power		(-20 ~ 0) dBm	0.07 dB	Power Meter,Sensor
				CALIBRATION KIT
Display Average Noise Level		9 kHz ~ 18 GHz	0.97 dB	Power Splitter
				/SCTI-I-406-06
Resolution Bandwidth		1 kHz ~ 8 MHz	6.3×10^{-3}	
Resolution Bandwidth Switching		1 kHz ~ 8 MHz	0.01 dB	
Frequency Readout Marker		9 kHz ~ 18 GHz	1.1 Hz	
Marker Frequency Count		9 kHz ~ 3 GHz	0.1 Hz	
		(3 ~ 18) GHz	1 Hz	

406. RF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
RF spectrum analyzers	40641			GPS,Frequency Counter
Scale Fidelity		(-100 ~ -4) dB	0.05 dB	Signal Generator
				STEP ATTENUATOR
Frequency Span		1 kHz ~ 10 GHz	1.1×10^{-4}	Power Meter,Sensor
		(10 ~ 18) GHz	6.2×10^{-4}	CALIBRATION KIT
				Power Splitter
Noise Sideband Level		(-100 ~ 100) kHz	0.97 dB	/SCTI-I-406-06
Reference Level		(0 ~ 80) dB	0.04 dB	
Input Attenuator Switching		(0 ~ 70) dB	0.04 dB	
Frequency Response		9 kHz	0.20 dB	
		9 kHz ~ 10 MHz	0.20 dB	
		10 MHz ~ 4 GHz	0.20 dB	
		(4 ~ 6) GHz	0.20 dB	
		(6 ~ 12) GHz	0.34 dB	
		(12 ~ 18) GHz	0.36 dB	
Surge generators	40643			오실로스코프,
Voltage		1 V	1.2×10^{-2}	고전압 프로브,
		1 V ~ 20 kV	1.2×10^{-2}	전류변환기,
		-1 V	1.2×10^{-2}	감쇠기
		-1 V ~ -20 kV	1.2×10^{-2}	주파수 측정기
				/SCTI-I-406-11
Voltage rise time		10 ns	2.0×10^{-3}	
		10 ns ~ 1 µs	2.0×10^{-3}	
		(1 ~ 6.5) µs	1.7×10^{-3}	
		6.5 µs ~ 100 ms	2.0×10^{-3}	
Voltage front time		10 ns	1.7×10^{-3}	
		10 ns ~ 1 µs	1.7×10^{-3}	
		(1 ~ 1.2) µs	1.5×10^{-3}	
		1.2 µs ~ 100 ms	1.7×10^{-3}	
Voltage duration		10 ns	2.0×10^{-3}	
		10 ns ~ 10 µs	2.0×10^{-3}	
		(10 ~ 50) µs	4.0×10^{-4}	
		(50 ~ 100) µs	2.0×10^{-3}	

406. RF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Surge generators	40643			Oscilloscopes,
Voltage duration		(100 ~ 700) μs	1.5×10^{-3}	High voltage probes,
		700 μs ~ 1 s	2.0×10^{-3}	Current monitor,
		(1 ~ 5) s	4.0×10^{-4}	Attenuators,
				Frequency counter
Period		1 ns	2.0×10^{-4}	/SCTI-I-406-11
		1 ns ~ 100 s	2.0×10^{-4}	
Current		10 A ~ 50 kA	1.2×10^{-2}	
		-10 A ~ -50 kA	1.2×10^{-2}	
Current rise time		10 ns	2.0×10^{-3}	
		(10 ~ 100) ns	2.0×10^{-3}	
		100 ns ~ 4 μs	5.0×10^{-4}	
		(4 ~ 6.4) μs	1.7×10^{-3}	
		6.4 μs ~ 100 ms	2.0×10^{-3}	
Current front time		10 ns	1.3×10^{-3}	
		10 ns ~ 1 μs	1.3×10^{-3}	
		(1 ~ 2.5) μs	8.8×10^{-4}	
		(2.5 ~ 5) μs	4.2×10^{-4}	
		(5 ~ 8) μs	1.7×10^{-3}	
		8 μs ~ 100 ms	1.3×10^{-3}	
Current pulse width		10 ns	2.0×10^{-3}	
		10 ns ~ 1 μs	2.0×10^{-3}	
		(1 ~ 16) μs	1.3×10^{-3}	
		(16 ~ 300) μs	6.7×10^{-4}	
		(300 ~ 320) μs	6.3×10^{-4}	
		320 μs ~ 1 s	2.0×10^{-3}	
		(1 ~ 5) s	4.0×10^{-4}	
Current duration		10 ns	1.1×10^{-3}	
		10 ns ~ 10 μs	1.1×10^{-3}	
		(10 ~ 20) μs	6.8×10^{-4}	
		(20 ~ 25) μs	1.0×10^{-3}	
		25 μs ~ 1 s	1.1×10^{-3}	
		(1 ~ 5) s	4.0×10^{-4}	

406. RF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
RF terminations	40645			Network Analyzer,
SWR		1		Calibration Kit
		9 kHz ~ 2 GHz	0.038	/SCTI-I-406-22
		(2 ~ 6) GHz	0.038	
		(6 ~ 18) GHz	0.048	
		(1 ~ 1.1)		
		9 kHz ~ 2 GHz	0.041	
		(2 ~ 6) GHz	0.041	
		(6 ~ 18) GHz	0.053	
SWR				
		(1.1 ~ 1.2)		
		9 kHz ~ 2 GHz	0.045	
		(2 ~ 6) GHz	0.045	
		(6 ~ 18) GHz	0.058	
		(1.2 ~ 1.3)		
		9 kHz ~ 2 GHz	0.050	
		(2 ~ 6) GHz	0.050	
		(6 ~ 18) GHz	0.064	
		(1.3 ~ 1.4)		
		9 kHz ~ 2 GHz	0.054	
		(2 ~ 6) GHz	0.054	
		(6 ~ 18) GHz	0.070	
		(1.4 ~ 1.5)		
		9 kHz ~ 2 GHz	0.059	
		(2 ~ 6) GHz	0.059	
		(6 ~ 18) GHz	0.075	
		(1.5 ~ 1.8)		
		9 kHz ~ 2 GHz	0.074	
		(2 ~ 6) GHz	0.075	
		(6 ~ 18) GHz	0.095	

406. RF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
RF terminations	40645			Network Analyzer,
SWR				Calibration Kit
		(1.8 ~ 2.0)		/SCTI-I-406-22
		9 kHz ~ 2 GHz	0.086	
		(2 ~ 6) GHz	0.087	
		(6 ~ 18) GHz	0.12	
		(2.0 ~ 2.5)		
		9 kHz ~ 2 GHz	0.13	
		(2 ~ 6) GHz	0.13	
		(6 ~ 18) GHz	0.16	
		(2.5 ~ 3.0)		
		9 kHz ~ 2 GHz	0.17	
		(2 ~ 6) GHz	0.17	
		(6 ~ 18) GHz	0.22	
Dip simulators	40654			Oscilloscopes,
DIP Voltage				High voltage probes
		50 Hz, 60 Hz, 380 V		/SCTI-I-406-23
		DIP 0 %, 0 V	0.002 8 V	
		DIP (0 ~ 120) %, (0 ~ 456) V	1.3×10^{-2}	
		50 Hz, 60 Hz, 230 V		
		DIP 0 %, 0 V	0.002 7 V	
		DIP (0 ~ 120) %, (0 ~ 276) V	1.3×10^{-2}	
		50 Hz, 60 Hz, 220 V		
		DIP 0 %, 0 V	0.002 7 V	
		DIP (0 ~ 120) %, (0 ~ 264) V	1.3×10^{-2}	
		50 Hz, 60 Hz, 120 V		
		DIP 0 %, 0 V	0.002 6 V	

406. RF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Dip simulators	40654			Oscilloscopes,
DIP Voltage				High voltage probes
		DIP (0 ~ 120) %, (0 ~ 144) V	1.3×10^{-2}	/SCTI-I-406-23
		50 Hz, 60 Hz, 110 V		
		DIP 0 %, 0 V	0.002 6 V	
		DIP (0 ~ 120) %, (0 ~ 132) V	1.3×10^{-2}	
Line voltage		50 Hz, 60 Hz		
		380 V	1.2×10^{-2}	
		230 V	1.2×10^{-2}	
		220 V	1.3×10^{-2}	
		120 V	1.3×10^{-2}	
		110 V	1.2×10^{-2}	
DIP time		1 ms ~ 1 s	2.0×10^{-3}	
		(1 ~ 5) s	4.0×10^{-4}	
DIP phase		50 Hz		
		0°	0.002 2°	
		(0 ~ 360)°	1.2×10^{-2}	
		60 Hz		
		0°	0.002 6°	
		(0 ~ 360)°	1.2×10^{-2}	

501. Contact thermometry

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Temperature generators:	50101	(-196 ~ 500) ℃	0.02 ℃	Temperature Recorder,
ovens, furnaces,		(500 ~ 1 100) ℃	1.5 ℃	SPRT, Standard TC
isothermal liquid baths,		(1 100 ~ 1 500) ℃	2.8 ℃	/SCTI-I-501-06
dry-block calibrators				

501. Contact thermometry

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Temperature indicators/ recorders / controllers, temperature calibrators	50102			SPRT, Standard TC Temperature Calibrator /SCTI-I-501-05
(With Sensor)		(-196 ~ -90) ℃	0.028 ℃	
		(-90 ~ 500) ℃	0.030 ℃	
		(500 ~ 1 100) ℃	1.9 ℃	
		(1 100 ~ 1 500) ℃	2.7 ℃	
(Without Sensor)		(-196 ~ 500) ℃	0.14 ℃	
		(500 ~ 1 000) ℃	0.25 ℃	
		(1 000 ~ 1 500) ℃	0.36 ℃	
Glass thermometers; liquid-in-glass, Beckmann	50103	(-50 ~ 350) ℃	0.1 ℃	SPRT /SCTI-I-501-03
		(350 ~ 500) ℃	2 ℃	
Resistance thermometers; SPRT, IPRT, thermistors, etc.	50104	(-196 ~ 500) ℃	0.04 ℃	SPRT /SCTI-I-501-01
Thermal expansion thermometers ; bimetal, gas or liquid type	50105	(-50 ~ 100) ℃	0.3 ℃	SPRT /SCTI-I-501-04
		(100 ~ 200) ℃	1 ℃	
		(200 ~ 500) ℃	2 ℃	
Thermomecoules: noble metal, base metal, pure metal, special type, etc.	50106	(-196 ~ 500) ℃	0.6 ℃	SPRT, Standard TC /SCTI-I-501-02 /SCTI-I-501-09
		(500 ~ 700) ℃	1.4 ℃	
		(700 ~ 1 100) ℃	2.0 ℃	
		(1 100 ~ 1 500) ℃	3.0 ℃	
Temperature transducers	50107	(-196 ~ 500) ℃	0.3 ℃	SPRT, Standard TC /SCTI-I-501-08
		(500 ~ 1 100) ℃	1.7 ℃	
		(1 100 ~ 1 300) ℃	3.1 ℃	

502. non contact thermometry

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Standard radiation thermometers	50204	(-20 ~ 0) ℃	1.0 ℃	Blackbody source /SCTI-I-502-01
		(0 ~ 50) ℃	0.7 ℃	
		(50 ~ 200) ℃	0.8 ℃	
		(200 ~ 300) ℃	0.9 ℃	
		(300 ~ 400) ℃	1.0 ℃	
		(400 ~ 500) ℃	1.1 ℃	
		(500 ~ 600) ℃	1.8 ℃	
		(600 ~ 900) ℃	2.6 ℃	
		(900 ~ 1 000) ℃	3.0 ℃	
		(1 000 ~ 1 200) ℃	4.1 ℃	
		(1 200 ~ 1 500) ℃	5.7 ℃	
Thermal image apparatus	50205	(-20 ~ 0) ℃	1.0 ℃	Blackbody source /SCTI-I-502-02
		(0 ~ 50) ℃	0.7 ℃	
		(50 ~ 200) ℃	0.8 ℃	
		(200 ~ 300) ℃	0.9 ℃	
		(300 ~ 400) ℃	1.0 ℃	
		(400 ~ 500) ℃	1.1 ℃	
		(500 ~ 600) ℃	1.8 ℃	
		(600 ~ 900) ℃	2.6 ℃	
		(900 ~ 1 000) ℃	3.0 ℃	
		(1 000 ~ 1 200) ℃	4.1 ℃	
		(1 200 ~ 1 500) ℃	5.7 ℃	
Others; ear thermometers. Etc.	50207	(34 ~ 42) ℃	0.1 ℃	SPRT, Bridge, Standard Resistance /SCTI-I-502-03

503. Humidity

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Relative humidity hygrometers; polimer thinfilm, hair, etc.	50302	(5 ~ 30) % R.H.	2.4 % R.H.	Dewpoint Meter /SCTI-I-503-01
		(30 ~ 97) % R.H.	2.2 % R.H.	
		(-40 ~ 100) ℃	0.4 ℃	
Psychrometers; assmann ventilated, PRT type, etc.	50303	(5 ~ 30) % R.H.	2.4 % R.H.	Dewpoint Meter /SCTI-I-503-02
		(30 ~ 97) % R.H.	2.1 % R.H.	
		(10 ~ 50) ℃	0.4 ℃	
Temperature humidity recorders; Hygrothermograph, etc.	50304	(20 ~ 90) % R.H.	4.4 % R.H.	Dewpoint Meter /SCTI-I-503-03
		(10 ~ 50) ℃	0.8 ℃	

503. Humidity

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Transducers; dew-point/ relative humidity	50305	(5 ~ 30) % R.H. (30 ~ 97) % R.H.	2.3 % R.H. 2.1 % R.H.	Dewpoint Meter Digltal Multimeter /SCTI-I-503-04
Humidity generators; two-pressure, two-temperature, flow mixing humidity generator constant temperature and humidity chamber, etc.	50306			Dewpoint Meter, Recorders (T-Type) /SCTI-I-503-05
Humidity		(5 ~ 20) % R.H. (20 ~ 50) % R.H. (50 ~ 70) % R.H. (70 ~ 98) % R.H.	2.1 % R.H. 1.8 % R.H. 1.7 % R.H. 2.1 % R.H.	
Temperature		(-70 ~ 20) ℃ (20 ~ 180) ℃	0.4 ℃ 0.5 ℃	

504. Moisture

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Comments
Cereal moisture meters	50401	(9 ~ 20) % M.C.	0.9 % M.C.	Balance, Dry oven /SCTI-I-504-01
Wood moisture meters	50402	(8 ~ 25) % M.C.	3.5 % M.C.	Balance, Dry oven /SCTI-I-504-02

601. Sound in air

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Comments
Sound Calibrators ; Sound level calibrators Pistonphones, Multifunction acoustic calibrators	60102			Microphone /SCTI-I-601-03, SCTI-I-601-04
Pistonphones		250 Hz	0.11 dB	
Sound level calibrators		250 Hz 1 000 Hz	0.11 dB 0.11 dB	

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Comments
Sound Calibrators ; Sound level calibrators Pistonphones, Multifunction acoustic calibrators	60102			Microphone /SCTI-I-601-03, SCTI-I-601-04
Multifunction acoustic calibrators		31.5 Hz	0.14 dB	
		63 Hz	0.11 dB	
		125 Hz	0.11 dB	
		250 Hz	0.11 dB	
		500 Hz	0.11 dB	
		1 000 Hz	0.11 dB	
		2 000 Hz	0.11 dB	
		4 000 Hz	0.11 dB	
		8 000 Hz	0.11 dB	
		12 500 Hz	0.18 dB	
		16 000 Hz	0.19 dB	
Microphones	60104			Microphone /SCTI-I-601-02
		31.5 Hz	0.14 dB	
		(31.5 ~ 40) Hz	0.13 dB	
		(40 ~ 50) Hz	0.12 dB	
		(50 ~ 6 300) Hz	0.11 dB	
		(6 300 ~ 8 000) Hz	0.13 dB	
		(8 000 ~ 10 000) Hz	0.15 dB	
		(10 000 ~ 12 500) Hz	0.19 dB	
		(12 500 ~ 16 000) Hz	0.20 dB	
Sound level meters	60106			Multifunction Acoustic Calibrator /SCTI-I-601-01
		63 Hz	0.4 dB	
		125 Hz	0.3 dB	
		250 Hz	0.2 dB	
		500 Hz	0.2 dB	
		1 000 Hz	0.2 dB	
		2 000 Hz	0.2 dB	
		4 000 Hz	0.2 dB	
		8 000 Hz	0.5 dB	

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Vibration Calibrators	60301	20 Hz	2.7×10^{-2}	표준 가속도계
		(20 ~ 1 250) Hz	2.7×10^{-2}	/SCTI-I-603-01
Vibration transducers	60302	10 Hz	2.5×10^{-2}	표준 가속도계
		(10 ~ 10 000) Hz	2.5×10^{-2}	/SCTI-I-603-02
Vibration measuring instruments	60303			Standard Accelerometer /SCTI-I-603-03
Acceleration		10 Hz	2.7×10^{-2}	
		(10 ~ 20) Hz	2.6×10^{-2}	
		(20 ~ 40) Hz	2.5×10^{-2}	
		(40 ~ 80) Hz	2.5×10^{-2}	
		(80 ~ 100) Hz	2.6×10^{-2}	
		(100 ~ 160) Hz	2.6×10^{-2}	
		(160 ~ 315) Hz	2.6×10^{-2}	
		(315 ~ 630) Hz	2.6×10^{-2}	
		(630 ~ 1 000) Hz	2.6×10^{-2}	
		(1 000 ~ 1 250) Hz	2.6×10^{-2}	
Velocity		10 Hz	2.7×10^{-2}	
		(10 ~ 20) Hz	2.5×10^{-2}	
		(20 ~ 40) Hz	2.5×10^{-2}	
		(40 ~ 80) Hz	2.5×10^{-2}	
		(80 ~ 100) Hz	2.6×10^{-2}	
		(100 ~ 160) Hz	2.6×10^{-2}	
		(160 ~ 315) Hz	2.6×10^{-2}	
		(315 ~ 630) Hz	2.6×10^{-2}	
		(630 ~ 1 000) Hz	2.6×10^{-2}	
		(1 000 ~ 1 250) Hz	2.6×10^{-2}	
Displacement		10 Hz	2.7×10^{-2}	
		(10 ~ 20) Hz	2.5×10^{-2}	
		(20 ~ 40) Hz	2.5×10^{-2}	
		(40 ~ 80) Hz	2.5×10^{-2}	
		(80 ~ 100) Hz	2.6×10^{-2}	
		(100 ~ 160) Hz	2.6×10^{-2}	
		(160 ~ 315) Hz	2.6×10^{-2}	
		(315 ~ 630) Hz	2.6×10^{-2}	

701. Photometry

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Illuminance meters	70101	(0.5 ~ 1) lx (1 ~ 20 000) lx	3.4×10^{-2} 2.8×10^{-2}	Standard illuminance meters /SCTI-I-701-01
Luminance meters	70102	(5 ~ 50) cd/m² (50 ~ 3 000) cd/m²	3.0×10^{-2} 1.9×10^{-2}	Standard luminance meters /SCTI-I-701-02

702. Properties of detectors & sources

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Colorimeters;source color	70204	CIE1931		Standard source
		x,y = (0.04 ~ 0.9)		Standard luminance meters
Chromaticity *		Red		/SCTI-I-702-01
		x	0.005	
		y	0.005	
		Green		
		x	0.005	
		y	0.005	
		Blue		
		x	0.005	
		y	0.005	
		White		
		x	0.005	
		y	0.007	
Luminance		(5 ~ 50) cd/m²	3.0×10^{-2}	
		(50 ~ 3 000) cd/m²	1.9×10^{-2}	

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Display color analyzer; luminance, chromaticity, white balance, etc. Chromaticity *	70213	 CIE1931 x,y = (0.04 ~ 0.9) Red x y Green x y Blue x y White x y	 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.007	Standard source Standard luminance meters /SCTI-I-702-02
Luminance		(10 ~ 250) cd/m²	2.3×10^{-2}	
UV irradiance meters	70219	 (365 nm) 10 μW/cm² ~ 200 mW/cm² (405 nm) 10 μW/cm² ~ 100 mW/cm²	 3.3×10^{-2} 3.3×10^{-2}	UV Sensor /SCTI-I-702-03

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Colorimeters; material color*	70301			Color standard tiles
(Include Reflectance Std.		White		/SCTI-I-703-01
Light source type A,C,D65		X	0.87	
2°, 10°)		Y	0.78	
		Z	0.86	
		m.grey		
		X	0.31	
		Y	0.28	
		Z	0.33	
		d.grey		
		X	0.12	
		Y	0.11	
		Z	0.13	
		Black		
		X	0.06	
		Y	0.06	
		Z	0.07	
		Red		
		X	0.36	
		Y	0.22	
		Z	0.15	
		Yellow		
		X	0.75	
		Y	0.66	
		Z	0.21	
		Green		
		X	0.20	
		Y	0.24	
		Z	0.21	
		Cyan		
		X	0.21	
		Y	0.24	
		Z	0.48	

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Colorimeters; material color*	70301			Color standard tiles
(Exclude Reflectance Std.		White		/SCTI-I-703-01
Light source type A,C,D65		X	0.87	
2°, 10°)		Y	0.78	
		Z	0.86	
		m.grey		
		X	0.31	
		Y	0.28	
		Z	0.33	
		d.grey		
		X	0.12	
		Y	0.11	
		Z	0.13	
		Black		
		X	0.07	
		Y	0.06	
		Z	0.07	
		Red		
		X	0.36	
		Y	0.22	
		Z	0.15	
		Yellow		
		X	0.75	
		Y	0.66	
		Z	0.21	
		Green		
		X	0.20	
		Y	0.24	
		Z	0.21	
		Cyan		
		X	0.21	
		Y	0.24	
		Z	0.48	

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Color standard tiles	70304			Spectrophotometers
(Include Reflectance Std.		White		/SCTI-I-703-13
Light source type A,C,D65		X	1.1×10^{-2}	
2°, 10°)		Y	1.1×10^{-2}	
		Z	1.2×10^{-2}	
		m.grey		
		X	9.1×10^{-3}	
		Y	8.8×10^{-3}	
		Z	1.1×10^{-2}	
		d.grey		
		X	9.2×10^{-3}	
		Y	8.9×10^{-3}	
		Z	1.0×10^{-2}	
		Black		
		X	1.2×10^{-2}	
		Y	1.2×10^{-2}	
		Z	1.6×10^{-2}	
		Red		
		X	1.1×10^{-2}	
		Y	1.1×10^{-2}	
		Z	1.6×10^{-2}	
		Yellow		
		X	9.7×10^{-3}	
		Y	9.8×10^{-3}	
		Z	1.6×10^{-2}	
		Green		
		X	9.3×10^{-3}	
		Y	9.4×10^{-3}	
		Z	1.2×10^{-2}	
		Cyan		
		X	9.6×10^{-3}	
		Y	9.7×10^{-3}	
		Z	1.1×10^{-2}	

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Color standard tiles	70304			Spectrophotometers
(Exclude Reflectance Std.		White		/SCTI-I-703-13
Light source type A,C,D65		X	1.1×10^{-2}	
2°, 10°)		Y	1.1×10^{-2}	
		Z	1.1×10^{-2}	
		m.grey		
		X	7.9×10^{-3}	
		Y	7.8×10^{-3}	
		Z	8.7×10^{-3}	
		d.grey		
		X	5.8×10^{-3}	
		Y	5.4×10^{-3}	
		Z	7.6×10^{-3}	
		Black		
		X	6.1×10^{-3}	
		Y	5.8×10^{-3}	
		Z	1.6×10^{-2}	
		Red		
		X	9.6×10^{-3}	
		Y	9.1×10^{-3}	
		Z	1.4×10^{-2}	
		Yellow		
		X	9.3×10^{-3}	
		Y	9.3×10^{-3}	
		Z	1.4×10^{-2}	
		Green		
		X	7.3×10^{-3}	
		Y	8.2×10^{-3}	
		Z	9.0×10^{-3}	
		Cyan		
		X	8.0×10^{-3}	
		Y	8.4×10^{-3}	
		Z	9.4×10^{-3}	
Gloss meters	70306	20°	1.0×10^{-2}	Gloss standard plates
		60°	8.0×10^{-3}	/SCTI-I-703-02
		85°	7.0×10^{-3}	

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Gloss standard plates	70307	20 ° 60 ° 85 °	1.2×10^{-2} 8.3×10^{-3} 7.3×10^{-3}	Standard gloss meters /SCTI-I-703-03
Haze meters * Haze	70308	 H-1 H-5 H-10 H-20 H-30	 0.38 0.25 0.5 0.6 0.7	Haze standard plates / SCTI-I-703-05
Haze standard plates * Haze	70309	 H-1 H-5 H-10 H-20 H-30	 0.40 0.28 0.6 0.8 0.9	Standard haze-meter /SCTI-I-703-06
Lens meters * diopter	70312	 (±5.00 ~ ±25.00) D	 0.06 D	Standard lens / SCTI-I-703-07
Optical densitometers * Film density (1 ~ 10) Step 11 Step (12 ~ 13) Step	70315	 (0.31 ~ 2.78) Dτ 3.04 Dτ (3.50 ~ 3.69) Dτ	 0.04 Dτ 0.06 Dτ 0.10 Dτ	X-Ray film tablet / SCTI-I-703-08
Optical filter (380 nm ~ 780 nm)	70316	 (0 ~ 100) %	 9.6×10^{-3}	Spectrophotometers / SCTI-I-703-09
Diffuse-reflectance meters * Mid Grey Deep Grey Black	70320	 Y Y Y	 0.3 0.1 0.1	Color standard tiles / SCTI-I-703-10
Refractometers Refractive index	70321	 (1.332 99 ~ 1.497 39) nD	 0.000 19 nD	Standard refractometer / SCTI-I-703-11
Transmittance meters * Transmittance	70323	 0.15 OD 0.3 OD 0.5 OD 0.7 OD 1.0 OD	 0.15 0.11 0.08 0.06 0.04	ND Filters / SCTI-I-703-12

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Spectrophotometers including FT-IR spectrophotometers	70325			CRM /SCTI-I-703-04
wavelength *		(250 ~ 780) nm	0.4 nm	
Transmittance		0.1		
		250 nm	8.8×10^{-3}	
		300 nm	8.1×10^{-3}	
		350 nm	8.1×10^{-3}	
		400 nm	5.6×10^{-3}	
		450 nm	5.3×10^{-3}	
		500 nm	5.3×10^{-3}	
		550 nm	5.2×10^{-3}	
		600 nm	5.3×10^{-3}	
		650 nm	5.3×10^{-3}	
		700 nm	5.4×10^{-3}	
		750 nm	5.4×10^{-3}	
		0.3		
		250 nm	8.1×10^{-3}	
		300 nm	8.0×10^{-3}	
		350 nm	7.9×10^{-3}	
		400 nm	5.3×10^{-3}	
		450 nm	5.3×10^{-3}	
		500 nm	5.2×10^{-3}	
		550 nm	5.2×10^{-3}	
		600 nm	5.3×10^{-3}	
		650 nm	5.3×10^{-3}	
		700 nm	5.2×10^{-3}	
		750 nm	5.2×10^{-3}	
		0.9		
		250 nm	7.8×10^{-3}	
		300 nm	7.8×10^{-3}	
		350 nm	7.7×10^{-3}	
		400 nm	5.2×10^{-3}	
		450 nm	5.1×10^{-3}	
		500 nm	5.1×10^{-3}	
		550 nm	5.1×10^{-3}	
		600 nm	5.0×10^{-3}	
		650 nm	5.1×10^{-3}	
		700 nm	5.2×10^{-3}	
		750 nm	5.2×10^{-3}	

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Spectrophotometers including FT-IR spectrophotometers	70325			CRM /SCTI-I-703-04
Absorbance*		0.1		
		250 nm	0.003 8	
		300 nm	0.003 5	
		350 nm	0.003 6	
		400 nm	0.002 4	
		450 nm	0.002 3	
		500 nm	0.002 3	
		550 nm	0.002 3	
		600 nm	0.002 3	
		650 nm	0.002 3	
		700 nm	0.002 4	
		750 nm	0.002 4	
		0.3		
		250 nm	0.003 5	
		300 nm	0.003 4	
		350 nm	0.003 4	
		400 nm	0.002 3	
		450 nm	0.002 3	
		500 nm	0.002 3	
		550 nm	0.002 3	
		600 nm	0.002 3	
		650 nm	0.002 3	
		700 nm	0.002 3	
		750 nm	0.002 3	
		0.9		
		250 nm	0.003 5	
		300 nm	0.003 4	
		350 nm	0.003 4	
		400 nm	0.002 3	
		450 nm	0.002 3	
		500 nm	0.002 3	
		550 nm	0.002 3	
		600 nm	0.002 3	
		650 nm	0.002 3	
		700 nm	0.002 3	
		750 nm	0.002 3	

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Spectrophotometers including FT-IR spectrophotometers	70325			CRM /SCTI-I-703-04
Reflectance		8 °:di		
		(380 ~ 780) nm	1.1×10^{-2}	
		8 °:de		
		(380 ~ 780) nm	1.1×10^{-2}	
Wavelengthnumber		(540 ~ 3 125) cm^{-1}		
		544.92 cm^{-1}	2.6 cm^{-1}	
		842.10 cm^{-1}	1.4 cm^{-1}	
		906.82 cm^{-1}	0.11 cm^{-1}	
		1 028.42 cm^{-1}	0.29 cm^{-1}	
		1 069.27 cm^{-1}	0.83 cm^{-1}	
		1 154.62 cm^{-1}	0.10 cm^{-1}	
		1 583.04 cm^{-1}	0.10 cm^{-1}	
		1 601.38 cm^{-1}	0.12 cm^{-1}	
		2 850.20 cm^{-1}	0.13 cm^{-1}	
		3 001.40 cm^{-1}	0.10 cm^{-1}	
		3 026.44 cm^{-1}	0.10 cm^{-1}	
		3 060.14 cm^{-1}	0.10 cm^{-1}	
		3 082.22 cm^{-1}	0.10 cm^{-1}	
wavelength reference materials; absorption cell , bandpass filter. Etc.	70326			CRM /SCTI-I-703-14
wavelength		(270 ~ 780) nm	0.4 nm	
Transmittance		0.1		
		250 nm	8.5×10^{-3}	
		300 nm	8.3×10^{-3}	
		350 nm	8.2×10^{-3}	
		400 nm	5.5×10^{-3}	
		450 nm	5.4×10^{-3}	
		500 nm	5.3×10^{-3}	
		550 nm	5.2×10^{-3}	
		600 nm	5.4×10^{-3}	
		650 nm	5.3×10^{-3}	
		700 nm	5.3×10^{-3}	
		750 nm	5.4×10^{-3}	

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
wavelength reference materials; absorption cell , bandpass filter. Etc.	70326			CRM /SCTI-I-703-14
Transmittance		0.3		
		250 nm	8.4×10^{-3}	
		300 nm	8.1×10^{-3}	
		350 nm	7.8×10^{-3}	
		400 nm	5.4×10^{-3}	
		450 nm	5.3×10^{-3}	
		500 nm	5.3×10^{-3}	
		550 nm	5.3×10^{-3}	
		600 nm	5.3×10^{-3}	
		650 nm	5.3×10^{-3}	
		700 nm	5.3×10^{-3}	
		750 nm	5.3×10^{-3}	
		0.9		
		250 nm	8.4×10^{-3}	
		300 nm	7.7×10^{-3}	
		350 nm	7.7×10^{-3}	
		400 nm	5.2×10^{-3}	
		450 nm	5.1×10^{-3}	
		500 nm	5.1×10^{-3}	
		550 nm	5.2×10^{-3}	
		600 nm	5.2×10^{-3}	
		650 nm	5.1×10^{-3}	
		700 nm	5.1×10^{-3}	
		750 nm	5.1×10^{-3}	
Absorbance		0.1		
		250 nm	0.003 7	
		300 nm	0.003 6	
		350 nm	0.003 6	
		400 nm	0.002 4	
		450 nm	0.002 3	
		500 nm	0.002 3	
		550 nm	0.002 2	
		600 nm	0.002 2	
		650 nm	0.002 2	
		700 nm	0.002 3	
		750 nm	0.002 3	

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
wavelength reference	70326			CRM
Absorbance		0.3		/SCTI-I-703-14
		250 nm	0.003 7	
		300 nm	0.003 6	
		350 nm	0.003 5	
		400 nm	0.002 4	
		450 nm	0.002 4	
		500 nm	0.002 3	
		550 nm	0.002 2	
		600 nm	0.002 2	
		650 nm	0.002 3	
		700 nm	0.002 3	
		750 nm	0.002 4	
		0.9		
		250 nm	0.003 6	
		300 nm	0.003 3	
		350 nm	0.003 3	
		400 nm	0.002 2	
		450 nm	0.002 2	
		500 nm	0.002 2	
		550 nm	0.002 2	
		600 nm	0.002 2	
		650 nm	0.002 2	
		700 nm	0.002 2	
		750 nm	0.002 3	
Reflectance		8 °:di		
		(380 ~ 780) nm	1.2×10^{-2}	
		8 °:de		
		(380 ~ 780) nm	1.2×10^{-2}	

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Gas analyzers	90103			CRM
Ammonia		(0 ~ 50.7) μmol/mol	3.0×10^{-2}	/SCTI-I-901-01
Sulfur dioxide		(0 ~ 10.1) μmol/mol	1.8×10^{-2}	
Nitrogen dioxid		(0 ~ 10.1) μmol/mol	3.0×10^{-2}	
Sulfur hexafluoride		(0 ~ 99.5) cmol/mol	1.4×10^{-3}	
Oxygen		(0 ~ 21.0) cmol/mol	2.8×10^{-2}	
Methane		(0 ~ 1.989) cmol/mol	1.3×10^{-2}	
Isobutane		(0 ~ 0.745) cmol/mol	2.2×10^{-2}	
Carbon Dioxide		(0 ~ 5.04) cmol/mol	2.1×10^{-2}	
Nitrogen Monoxide		(0 ~ 878.8) μmol/mol	2.0×10^{-2}	
Hydrogen		(0 ~ 2.34) cmol/mol	3.0×10^{-2}	
Hydrogen Sulfide		(0 ~ 24.5) μmol/mol	3.6×10^{-2}	
Carbon Monoxide		(0 ~ 103.4) μmol/mol	2.0×10^{-2}	
Isobutylene		(0 ~ 97.9) μmol/mol	1.3×10^{-2}	
Others; pH meter, Electrical conductivity meter, Turbidity meter	90199			CRM /SCTI-I-901-02 /SCTI-I-901-03 /SCTI-I-901-04
pH meter		(4 ~ 10) pH	0.011 pH	
Electrical conductivity meter		100 μS/cm	2.1 μS/cm	
		1 413 μS/cm	5.7 μS/cm	
		10 mS/cm	0.066 mS/cm	
		111 mS/cm	1.6 mS/cm	
Turbidity meter		1 NTU	0.070 NTU	
		10 NTU	0.22 NTU	
		100 NTU	3.0 NTU	
		500 NTU	11 NTU	
		1 000 NTU	10 NTU	