

CERTIFICATE OF ACCREDITATION

Keysight Technologies Korea Ltd.

Accreditation No. : KC01-071

Corporation Registration No. : 110111-5328623

Address of Laboratory : 15F #57 Yeouinaru-ro, Yeongdeungpo-gu, Yeouido,
Seoul, Republic of Korea

Date of Initial Accreditation : November 19, 2001.

Validity of Accreditation : September 03, 2023. ~ September 02, 2027.

Scope of Accreditation : Attached Annex

Date of issue : August 16, 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

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CALIBRATION

Valid To : Sep. 02, 2027.

Accreditation No : KC01-017

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	Field Code	Item of Calibration	on-site	Field Code	Item of Calibration	on-site
301. Time/frequency								
30104	Frequency meters/counters	N						
401. Direct Current								
40103	DC voltage/current calibrato	Y						
40108	DC Power Supplies	Y						
402. Resistance								
Capacitance and Inductance								
40217	Impedance bridges/LCR meters	Y						
404. Other DC & LF Measurements								
40411	Function generators	Y						
40419	Analogue/Digital multimeters	Y						
40421	Oscilloscope	Y						
406. Radio frequency measurements								
40602	Coaxial attenuators	Y						
40621	Mobile communication Test Set	Y						
40623	Network analyzers	Y						
40635	RF power meters	Y						
40637	Thermocouple power sensors	N						
40638	Pulse generators	Y						
40640	RF signal generators	Y						
40641	RF spectrum analyzers	Y						

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.

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	10 MHz	2.6×10^{-12}	GPS Receiver/CSG-CI-T002
Timebase Output Frequency Insight Technologies Korea Ltd. Input Frequency		10 MHz	6.2×10^{-11}	GPS Receiver/CSG-CI-T002

401. Direct 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 DC Voltage Source	40103	(±)		DMM/CSG-CI-E003
		(0 ~ 8)V	0.1 mV	
		(8 ~ 10)V	0.2 mV	
		(10 ~ 20)V	0.3 mV	
		(20 ~ 30)V	0.4 mV	
		(30 ~ 35)V	0.5 mV	
		(35 ~ 45)V	0.6 mV	
		(45 ~ 50)V	0.7 mV	
		(50 ~ 60)V	0.8 mV	
		(60 ~ 70)V	0.9 mV	
		(70 ~ 80)V	1.0 mV	
		(80 ~ 90)V	1.1 mV	
		(90 ~ 100)V	2 mV	
		(100 ~ 150)V	3 mV	
		(150 ~ 250)V	4 mV	
		(250 ~ 350)V	5 mV	
		(350 ~ 450)V	6 mV	
	(450 ~ 500)V	7 mV		
	(500 ~ 600)V	8 mV		
	(600 ~ 700)V	9 mV		
	(700 ~ 800)V	10 mV		
	(800 ~ 900)V	11 mV		
	(900 ~ 1 000)V	0.02 V		

401. Direct 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 DC Current Source	40103	(±) (0 ~ 1) μA (1 ~ 10) μA (10 ~ 100) μA (0.1 ~ 1) mA (1 ~ 10) mA (10 ~ 100) mA (0.1 ~ 1) A	 0.1 nA 0.4 nA 4 nA 0.1 μA 0.3 μA 5 μA 0.2 mA	DMM/CSG-CI-E003
DC Power Supply Output Voltage Output Current	40108	0 V (0 ~ 1) V (1 ~ 10) V (10 ~ 100) V (100 ~ 1 000) V 0 A (0 ~ 1) A (1 ~ 10) A (10 ~ 100) A	 0.58 mV 5.8×10^{-4} 5.9×10^{-5} 5.4×10^{-5} 2.7×10^{-5} 0.58 mA 5.9×10^{-4} 9.0×10^{-5} 7.9×10^{-5}	DMM/CSG-CI-E002 DMM, Shunt Resistor /CSG-CI-E002

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 Capacitance	40217	1 pF 1 kHz 1 kHz ~ 1 MHz 1 MHz ~ 2 MHz 2 MHz ~ 3 MHz 3 MHz ~ 4 MHz 4 MHz ~ 5 MHz 5 MHz ~ 10 MHz 10 MHz ~ 13 MHz 10 pF 1 kHz 1 kHz ~ 1 MHz 1 MHz ~ 2 MHz 2 MHz ~ 3 MHz 3 MHz ~ 4 MHz 4 MHz ~ 5 MHz 5 MHz ~ 10 MHz 10 MHz ~ 13 MHz	 0.37 fF 0.38 fF 0.43 fF 0.55 fF 0.73 fF 0.96 fF 2.6 fF 3.8 fF 3.6 fF 3.6 fF 3.6 fF 3.6 fF 3.6 fF 3.6 fF 3.6 fF 3.8 fF 3.9 fF	Standard Capacitance /CSG-CI-E004

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 Capacitance	40217	100 pF		Standard Capacitance /CSG-CI-E004
		1 kHz	0.036 pF	
		1 kHz ~ 1 MHz	0.036 pF	
		1 MHz ~ 2 MHz	0.036 pF	
		2 MHz ~ 3 MHz	0.037 pF	
		3 MHz ~ 4 MHz	0.037 pF	
		4 MHz ~ 5 MHz	0.038 pF	
		5 MHz ~ 10 MHz	0.049 pF	
		10 MHz ~ 13 MHz	0.061 pF	
		1 000 pF		
		1 kHz	0.36 pF	
		1 kHz ~ 1 MHz	0.37 pF	
		1 MHz ~ 2 MHz	0.39 pF	
		2 MHz ~ 3 MHz	0.46 pF	
		3 MHz ~ 4 MHz	0.57 pF	
		4 MHz ~ 5 MHz	0.72 pF	
		5 MHz ~ 10 MHz	1.9 pF	
		10 MHz ~ 13 MHz	2.8 pF	
		0.01 μF		
		1 kHz	1.3 pF	
		0.1 μF		
		1 kHz	13 pF	
		1 μF		
		1 kHz	0.13 nF	
Resistance	40217	1 mΩ		Standard Resistance /CSG-CI-E004
		DC	0.33 μΩ	
		10 mΩ		
		DC	1.9 μΩ	
		100 mΩ		
		DC	29 μΩ	
		1 Ω		
		DC	0.13 mΩ	
		10 Ω		
		DC	1.3 mΩ	
		DC ~ 1 MHz	3.3 mΩ	
		1 MHz ~ 2 MHz	5.2 mΩ	
2 MHz ~ 3 MHz	6.2 mΩ			
3 MHz ~ 4 MHz	7.2 mΩ			
4 MHz ~ 5 MHz	11 mΩ			

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	10 Ω		Standard Resistance /CSG-CI-E004
		5 MHz ~ 10 MHz	0.041 Ω	
		10 MHz ~ 13 MHz	0.061 Ω	
		100 Ω		
		DC	13 mΩ	
		DC ~ 1 MHz	0.033 Ω	
		1 MHz ~ 2 MHz	0.042 Ω	
		2 MHz ~ 3 MHz	0.052 Ω	
		3 MHz ~ 4 MHz	0.052 Ω	
		4 MHz ~ 5 MHz	0.052 Ω	
		5 MHz ~ 10 MHz	0.21 Ω	
		10 MHz ~ 13 MHz	0.31 Ω	
		1 kΩ		
		DC	0.12 Ω	
		DC ~ 100 kHz	0.33 Ω	
		100 kHz ~ 1 MHz	0.33 Ω	
		1 MHz ~ 2 MHz	0.33 Ω	
		2 MHz ~ 3 MHz	0.33 Ω	
		3 MHz ~ 4 MHz	0.42 Ω	
		4 MHz ~ 5 MHz	0.52 Ω	
		5 MHz ~ 10 MHz	2.1 Ω	
		10 MHz ~ 13 MHz	3.1 Ω	
		10 kΩ		
		DC	1.3 Ω	
DC ~ 100 kHz	2.4 Ω			
100 kHz ~ 1 MHz	3.3 Ω			
100 kΩ				
DC	13 Ω			
DC ~ 100 kHz	0.033 kΩ			
100 kHz ~ 1 MHz	0.033 kΩ			

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 Frequency	40411	1 μHz ~ 1 MHz	0.01 Hz	Frequency Counter /CSG-CI-E010
		1 MHz ~ 10 MHz	0.1 Hz	
		10 MHz ~ 100 MHz	1 Hz	

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 Amplitude	40411	1 kHz 100 mV 1 V 10 V 50 V	15 μV 0.14 mV 1.4 mV 6.7 mV	DMM/CSG-CI-E010	
		1 kHz ~ 20 kHz 100 mV 1 V 10 V 50 V	27 μV 0.3 mV 2.7 mV 10 mV		
		20 kHz ~ 100 kHz 100 mV 1 V 10 V 50 V	97 μV 0.97 mV 9.7 mV 14 mV		
		100 kHz ~ 1 MHz 100 mV 1 V 10 V	1.4 mV 14 mV 0.14 V		
		1 MHz ~ 10 MHz 100 mV 1 V	0.02 V 0.16 V		
Flatness		Sine 0 dBm 9 kHz ~ 100 MHz	0.01 dB		Power Meter, Power Senosr /CSG-CI-E010
DC Offset		Sine 1 kHz 0 V 3 V	0.01 mV 0.2 mV		DMM/CSG-CI-E010
Analogue/Digital multimeters DC Voltage	40419	0 V (0 ~ 100) mV 100 mV ~ 1 V (1 ~ 10) V (10 ~ 100) V (100 ~ 1 000) V	0.6 μV 1.7 x 10 ⁻⁵ 7.9 x 10 ⁻⁶ 5.2 x 10 ⁻⁶ 7.6 x 10 ⁻⁶ 9.9 x 10 ⁻⁶		Calibrator/CSG-CI-E001

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 AC Voltage	40419	10 Hz		Calibrator/CSG-CI-E001
		1 mV	6.3 μV	
		(1 ~ 10) mV	9.6×10^{-4}	
		(10 ~ 100) mV	5.4×10^{-4}	
		100 mV ~ 1 V	4.2×10^{-4}	
		(1 ~ 10) V	4.2×10^{-4}	
		(10 ~ 100) V	3.8×10^{-4}	
		(10 ~ 20) Hz		
		1 mV	6.3 μV	
		(1 ~ 10) mV	9.5×10^{-4}	
		(10 ~ 100) mV	5.3×10^{-4}	
		100 mV ~ 1 V	4.1×10^{-4}	
		(1 ~ 10) V	4.1×10^{-4}	
		(10 ~ 100) V	3.6×10^{-4}	
		(20 ~ 40) Hz		
		1 mV	6.1 μV	
		(1 ~ 10) mV	7.4×10^{-4}	
		(10 ~ 100) mV	2.4×10^{-4}	
		100 mV ~ 1 V	1.6×10^{-4}	
		(1 ~ 10) V	1.6×10^{-4}	
		(10 ~ 100) V	1.4×10^{-4}	
		40 Hz ~ 1 kHz		
		1 mV	6.1 μV	
		(1 ~ 10) mV	7.2×10^{-4}	
(10 ~ 100) mV	1.9×10^{-4}			
100 mV ~ 1 V	7.0×10^{-5}			
(1 ~ 10) V	7.4×10^{-5}			
(10 ~ 100) V	8.7×10^{-5}			
(1 ~ 20) kHz				
1 mV	6.1 μV			
(1 ~ 10) mV	7.2×10^{-4}			
(10 ~ 100) mV	1.9×10^{-4}			
100 mV ~ 1 V	7.0×10^{-5}			
(1 ~ 10) V	7.5×10^{-5}			
(10 ~ 100) V	8.8×10^{-5}			
(20 ~ 50) kHz				
1 mV	6.3 μV			
(1 ~ 10) mV	9.1×10^{-4}			
(10 ~ 100) mV	2.8×10^{-4}			
100 mV ~ 1 V	1.2×10^{-4}			
(1 ~ 10) V	1.2×10^{-4}			
(10 ~ 100) V	1.3×10^{-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 multimeters AC Voltage	40419	(50 ~ 100) kHz 1 mV (1 ~ 10) mV (10 ~ 100) mV 100 mV ~ 1 V (1 ~ 10) V (10 ~ 100) V	8.0 μV 1.5×10^{-3} 7.1×10^{-4} 1.7×10^{-4} 1.8×10^{-4} 2.4×10^{-4}	Calibrator/CSG-CI-E001
		50 Hz, 50 Hz ~ 1 kHz (100 ~ 1 000) V (100 ~ 1 000) V	4.2×10^{-4} 1.1×10^{-4}	
DC Current	40419	0 A (0 ~ 10) μA (10 ~ 100) μA 100 μA ~ 1 mA (1 ~ 10) mA (10 ~ 100) mA 100 mA ~ 1 A (1 ~ 10) A	7.0 nA 7.4×10^{-4} 1.2×10^{-4} 5.2×10^{-5} 4.9×10^{-5} 6.2×10^{-5} 1.1×10^{-4} 4.8×10^{-4}	Calibrator/CSG-CI-E001
		AC Current		
AC Current	40419	10 Hz (9 ~ 100) μA 100 μA ~ 1 mA (1 ~ 10) mA (10 ~ 100) mA	5.7×10^{-4} 4.4×10^{-4} 4.3×10^{-4} 4.3×10^{-4}	Calibrator/CSG-CI-E001
		(10 ~ 20) Hz (9 ~ 100) μA 100 μA ~ 1 mA (1 ~ 10) mA (10 ~ 100) mA	5.3×10^{-4} 3.9×10^{-4} 3.8×10^{-4} 3.8×10^{-4}	
		20 Hz 1 A	0.38 mA	
		(20 ~ 40) Hz (9 ~ 100) μA 100 μA ~ 1 mA (1 ~ 10) mA (10 ~ 100) mA 100 mA ~ 1 A 1 A	3.7×10^{-4} 2.8×10^{-4} 2.7×10^{-4} 2.7×10^{-4} 3.7×10^{-4} 3.7×10^{-4}	
		40 Hz 10 A	5.6 mA	

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 AC Current	40419	40 Hz ~ 1 kHz (9 ~ 100) μ A 100 μ A ~ 1 mA (1 ~ 10) mA (10 ~ 100) mA 100 mA ~ 1 A (1 ~ 10) A	3.0×10^{-4} 2.2×10^{-4} 2.1×10^{-4} 2.0×10^{-4} 3.7×10^{-4} 5.6×10^{-4}	Calibrator/CSG-CI-E001
		(1 ~ 5) kHz (9 ~ 100) μ A 100 μ A ~ 1 mA (1 ~ 10) mA (10 ~ 100) mA 100 mA ~ 1 A (1 ~ 10) A	5.1×10^{-4} 3.9×10^{-4} 3.3×10^{-4} 3.1×10^{-4} 6.4×10^{-4} 1.2×10^{-3}	
Resistance		(5 ~ 10) kHz (9 ~ 100) μ A 100 μ A ~ 1 mA (1 ~ 10) mA (10 ~ 100) mA 100 mA ~ 1 A (1 ~ 10) A	2.1×10^{-3} 2.1×10^{-3} 1.9×10^{-3} 1.4×10^{-3} 8.3×10^{-3} 4.4×10^{-3}	Calibrator/CSG-CI-E001
		1 Ω (1 ~ 10) Ω (10 ~ 100) Ω 100 Ω ~ 1 k Ω (1 ~ 10) k Ω (10 ~ 100) k Ω 100 k Ω ~ 1 M Ω (1 ~ 10) M Ω (10 ~ 100) M Ω	0.13 m Ω 3.2×10^{-5} 1.5×10^{-5} 9.7×10^{-6} 9.5×10^{-6} 1.2×10^{-5} 1.8×10^{-5} 5.4×10^{-5} 1.5×10^{-4}	
Oscilloscope Port Impedance	40421	50 Ω 1 mV/Div ~ 1 V/Div	17 m Ω	DMM/CSG-CI-E008
		1 M Ω 1 mV/Div ~ 1 V/Div	0.17 k Ω	
DC Gain		50 Ω 1 mV/Div 2 mV/Div 5 mV/Div 10 mV/Div 20 mV/Div 50 mV/Div	1.3μ V 2.3μ V 5.6μ V 13μ V 23μ V 0.09 mV	Oscilloscope Calibrator /CSG-CI-E008

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	40421	50 Ω	100 mV/Div	0.13 mV	Oscilloscope Calibrator /CSG-CI-E008			
			200 mV/Div	0.23 mV				
			500 mV/Div	0.6 mV				
			1 V/Div	1.3 mV				
			1 M Ω	1 mV/Div		31 μ V		
				2 mV/Div		31 μ V		
				5 mV/Div		35 μ V		
				10 mV/Div		50 μ V		
				20 mV/Div		54 μ V		
				50 mV/Div		0.15 mV		
		100 mV/Div		0.18 mV				
		200 mV/Div		0.26 mV				
		500 mV/Div		0.9 mV				
		1 V/Div		2.4 mV				
		Offset Gain	40421	50 Ω		1 mV/Div	1.3 μ V	Oscilloscope Calibrator /CSG-CI-E008
						2 mV/Div	2.3 μ V	
						5 mV/Div	8.2 μ V	
						10 mV/Div	62 μ V	
						20 mV/Div	64 μ V	
						50 mV/Div	82 μ V	
100 mV/Div	0.14 mV							
200 mV/Div	0.64 mV							
500 mV/Div	0.82 mV							
1 V/Div	1.3 mV							
1 M Ω	1 mV/Div			34 μ V				
	2 mV/Div			37 μ V				
	5 mV/Div			49 μ V				
	10 mV/Div			0.14 mV				
	20 mV/Div			0.14 mV				
	50 mV/Div			0.43 mV				
	100 mV/Div			0.68 mV				
	200 mV/Div			2.1 mV				
	500 mV/Div			2.1 mV				
	1 V/Div			2.4 mV				
Time Marker	40421	1 ns/Div	0.06 ps	Oscilloscope Calibrator /CSG-CI-E008				
		2 ns/Div	0.06 ps					
		5 ns/Div	0.06 ps					
		10 ns/Div	0.6 ps					
		20 ns/Div	0.6 ps					
		50 ns/Div	0.6 ps					
		100 ns/Div	0.6 ps					

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 Time Marker	40421	200 ns/Div	0.6 ps	Oscilloscope Calibrator /CSG-CI-E008
		500 ns/Div	0.9 ps	
		1 μs/Div	0.9 ps	
		2 μs/Div	0.9 ps	
		5 μs/Div	0.06 ns	
		10 μs/Div	0.06 ns	
		20 μs/Div	0.06 ns	
		50 μs/Div	0.6 ns	
		100 μs/Div	0.6 ns	
		200 μs/Div	0.6 ns	
		500 μs/Div	6 ns	
		1 ms/Div	6 ns	
		2 ms/Div	6 ns	
		5 ms/Div	0.06 μs	
		10 ms/Div	0.07 μs	
		20 ms/Div	0.19 μs	
		50 ms/Div	6 μs	
100 ms/Div	7 μs			
200 ms/Div	10 μs			
500 ms/Div	0.06 ms			
AUX Output Accuracy		1 V	0.06 mV	DMM/CSG-CI-E008
Analog Bandwidth		50 MHz ~ 3 GHz	0.43 dB	RF Signal Generator, Power sensor, Power meter, Power splitter /CSG-CI-E008
		3 GHz ~ 7 GHz	0.43 dB	
		7 GHz ~ 18 GHz	0.30 dB	
		18 GHz ~ 26.5 GHz	0.39 dB	
		26.5 GHz ~ 33 GHz	0.44 dB	
		33 GHz ~ 40 GHz	0.57 dB	
		40 GHz ~ 50 GHz	0.71 dB	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Coaxial attenuators Fixed Attenuation [TYPE N]	40602	(DC ~ 30 MHz)		Measuring Receiver /CSG-CI-M001
		0 dB ~ 10 dB	0.25 dB	
		10 dB ~ 20 dB	0.24 dB	
		20 dB ~ 30 dB	0.24 dB	
		(30 MHz ~ 1 GHz)		
		0 dB ~ 10 dB	0.25 dB	
		10 dB ~ 20 dB	0.24 dB	
		20 dB ~ 30 dB	0.24 dB	
		(1 GHz ~ 8 GHz)		
		0 dB ~ 10 dB	0.36 dB	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.			
Coaxial attenuators Fixed Attenuation [TYPE N]	40602	(1 GHz ~ 8 GHz)		Measuring Receiver /CSG-CI-M001			
		10 dB ~ 20 dB	0.35 dB				
		20 dB ~ 30 dB	0.35 dB				
		(8 GHz ~ 12.4 GHz)					
		0 dB ~ 10 dB	0.53 dB				
		10 dB ~ 20 dB	0.52 dB				
		20 dB ~ 30 dB	0.52 dB				
		(12.4 GHz ~ 18 GHz)					
		0 dB ~ 10 dB	0.53 dB				
		10 dB ~ 20 dB	0.52 dB				
		20 dB ~ 30 dB	0.52 dB				
		Variable Attenuation [TYPE N]	40602		(DC ~ 30 MHz)		Measuring Receiver /CSG-CI-M001
					0 dB ~ 10 dB	0.64 dB	
					10 dB ~ 20 dB	0.64 dB	
					20 dB ~ 30 dB	0.69 dB	
					30 dB ~ 40 dB	0.74 dB	
					40 dB ~ 50 dB	0.81 dB	
					50 dB ~ 60 dB	0.87 dB	
60 dB ~ 70 dB	0.96 dB						
70 dB ~ 80 dB	1.1 dB						
80 dB ~ 90 dB	1.1 dB						
90 dB ~ 100 dB	1.2 dB						
100 dB ~ 110 dB	1.3 dB						
(30 MHz ~ 1 GHz)							
0 dB ~ 10 dB	0.64 dB						
10 dB ~ 20 dB	0.64 dB						
20 dB ~ 30 dB	0.69 dB						
30 dB ~ 40 dB	0.74 dB						
40 dB ~ 50 dB	0.81 dB						
50 dB ~ 60 dB	0.87 dB						
60 dB ~ 70 dB	0.96 dB						
70 dB ~ 80 dB	1.1 dB						
80 dB ~ 90 dB	1.1 dB						
90 dB ~ 100 dB	1.2 dB						
100 dB ~ 110 dB	1.3 dB						
(1 GHz ~ 8 GHz)							
0 dB ~ 10 dB	0.87 dB						
10 dB ~ 20 dB	0.87 dB						
20 dB ~ 30 dB	0.90 dB						
30 dB ~ 40 dB	0.94 dB						
40 dB ~ 50 dB	0.99 dB						
50 dB ~ 60 dB	1.2 dB						
60 dB ~ 70 dB	1.2 dB						
70 dB ~ 80 dB	1.2 dB						

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Coaxial attenuators Variable Attenuation [TYPE N]	40602	(1 GHz ~ 8 GHz) 80 dB ~ 90 dB	1.3 dB	Measuring Receiver /CSG-CI-M001
		(8 GHz ~ 12.4 GHz) 0 dB ~ 10 dB 10 dB ~ 20 dB 20 dB ~ 30 dB 30 dB ~ 40 dB 40 dB ~ 50 dB 50 dB ~ 60 dB 60 dB ~ 70 dB 70 dB ~ 80 dB 80 dB ~ 90 dB	0.87 dB 0.87 dB 0.90 dB 0.94 dB 0.99 dB 1.1 dB 1.2 dB 1.2 dB 1.3 dB	
Fixed Attenuation [TYPE 3.5mm]	40602	(12.4 GHz ~ 18 GHz) 0 dB ~ 10 dB 10 dB ~ 20 dB 20 dB ~ 30 dB 30 dB ~ 40 dB 40 dB ~ 50 dB 50 dB ~ 60 dB 60 dB ~ 70 dB 70 dB ~ 80 dB 80 dB ~ 90 dB	0.87 dB 0.87 dB 0.90 dB 0.94 dB 0.99 dB 1.1 dB 1.2 dB 1.2 dB 1.3 dB	Measuring Receiver /CSG-CI-M001
		(DC ~ 30 MHz) 0 dB ~ 10 dB 10 dB ~ 20 dB 20 dB ~ 30 dB (30 MHz ~ 1 GHz) 0 dB ~ 10 dB 10 dB ~ 20 dB 20 dB ~ 30 dB (1 GHz ~ 8 GHz) 0 dB ~ 10 dB 10 dB ~ 20 dB 20 dB ~ 30 dB (8 GHz ~ 12.4 GHz) 0 dB ~ 10 dB 10 dB ~ 20 dB 20 dB ~ 30 dB (12.4 GHz ~ 26.5 GHz) 0 dB ~ 10 dB	0.08 dB 0.09 dB 0.09 dB 0.08 dB 0.09 dB 0.09 dB 0.08 dB 0.09 dB 0.09 dB 0.12 dB 0.12 dB 0.12 dB 0.12 dB	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Coaxial attenuators Fixed Attenuation [TYPE 3.5mm]	40602	(12.4 GHz ~ 26.5 GHz)		Measuring Receiver /CSG-CI-M001
		10 dB ~ 20 dB	0.12 dB	
		20 dB ~ 30 dB	0.13 dB	
Variable Attenuation [TYPE 3.5mm]	40602	(DC ~ 30 MHz)		Measuring Receiver /CSG-CI-M001
		0 dB ~ 10 dB	0.49 dB	
		10 dB ~ 20 dB	0.50 dB	
		20 dB ~ 30 dB	0.56 dB	
		30 dB ~ 40 dB	0.63 dB	
		40 dB ~ 50 dB	0.72 dB	
		50 dB ~ 60 dB	0.78 dB	
		60 dB ~ 70 dB	0.89 dB	
		70 dB ~ 80 dB	0.95 dB	
		80 dB ~ 90 dB	1.1 dB	
		90 dB ~ 100 dB	1.1 dB	
		100 dB ~ 110 dB	1.2 dB	
		(30 MHz ~ 1 GHz)		
		0 dB ~ 10 dB	0.49 dB	
		10 dB ~ 20 dB	0.50 dB	
		20 dB ~ 30 dB	0.56 dB	
		30 dB ~ 40 dB	0.63 dB	
		40 dB ~ 50 dB	0.72 dB	
		50 dB ~ 60 dB	0.78 dB	
		60 dB ~ 70 dB	0.89 dB	
		70 dB ~ 80 dB	0.95 dB	
		80 dB ~ 90 dB	1.1 dB	
		90 dB ~ 100 dB	1.1 dB	
		100 dB ~ 110 dB	1.2 dB	
		(1 GHz ~ 8 GHz)		
		0 dB ~ 10 dB	0.61 dB	
		10 dB ~ 20 dB	0.62 dB	
		20 dB ~ 30 dB	0.67 dB	
		30 dB ~ 40 dB	0.72 dB	
		40 dB ~ 50 dB	0.80 dB	
		50 dB ~ 60 dB	0.85 dB	
		60 dB ~ 70 dB	0.95 dB	
		70 dB ~ 80 dB	1.1 dB	
		80 dB ~ 90 dB	1.1 dB	
		(8 GHz ~ 12.4 GHz)		
		0 dB ~ 10 dB	0.61 dB	
		10 dB ~ 20 dB	0.62 dB	
		20 dB ~ 30 dB	0.67 dB	
		30 dB ~ 40 dB	0.72 dB	
		40 dB ~ 50 dB	0.80 dB	
		50 dB ~ 60 dB	0.85 dB	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Coaxial attenuators Variable Attenuation [TYPE 3.5mm]	40602	(8 GHz ~ 12.4 GHz)		Measuring Receiver /CSG-CI-M001
		60 dB ~ 70 dB	0.95 dB	
		70 dB ~ 80 dB	1.1 dB	
		80 dB ~ 90 dB	1.1 dB	
		(12.4 GHz ~ 26.5 GHz)		
		0 dB ~ 10 dB	0.61 dB	
		10 dB ~ 20 dB	0.62 dB	
		20 dB ~ 30 dB	0.67 dB	
		30 dB ~ 40 dB	0.72 dB	
		40 dB ~ 50 dB	0.80 dB	
		50 dB ~ 60 dB	0.85 dB	
		60 dB ~ 70 dB	0.95 dB	
		70 dB ~ 80 dB	1.1 dB	
		80 dB ~ 90 dB	1.1 dB	
Mobile communication test sets RF Generator FM Distortion	40621	800 MHz ~ 2 GHz		Audio Analyzer /CSG-CI-M013
		Deviation 4 kHz	0.12 %	
		Deviation 20 kHz	0.12 %	
		800 MHz ~ 2 GHz		
		Deviation 0.5 kHz	35 Hz	
		Deviation 5 kHz	0.30 kHz	
		Deviation 20 kHz	1.2 kHz	
		800 MHz ~ 2 GHz		
		-14 dBm ~ -19 dBm	0.38 dB	
		-20 dBm ~ -39 dBm	0.38 dB	
		-40 dBm ~ -49 dBm	0.38 dB	
		-50 dBm ~ -59 dBm	0.38 dB	
		-60 dBm ~ -69 dBm	0.53 dB	
		-70 dBm ~ -79 dBm	0.53 dB	
-80 dBm ~ -99 dBm	0.53 dB			
-100 dBm ~ -109 dBm	0.53 dB			
2 GHz ~ 5 GHz				
0 dBm ~ -110 dBm	0.44 dB			
5 GHz ~ 6 GHz				
0 dBm ~ -110 dBm	0.51 dB			
RF Generator Level Accuracy				Measuring Receiver /CSG-CI-M013
RF Generator Harmonics Spectral Purity		2nd Harmonics		Spectrum Analyzer /CSG-CI-M013
		-17 dBm ~ -26 dBm		
		800 MHz ~ 960 MHz	1.4 dB	
		1.7 GHz ~ 6 GHz	2.6 dB	

406. Radio frequency measurement

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 RF Generator Harmonics Spectral Purity	40621	3rd Harmonics -17 dBm ~ -26 dBm 800 MHz ~ 960 MHz 1.7 GHz ~ 5 GHz 5 GHz ~ 6 GHz	1.4 dB 2.6 dB 3.0 dB	Spectrum Analyzer /CSG-CI-M013
RF Analyzer Level Accuracy		800 MHz ~ 2 GHz -14 dBm ~ 8 dBm 2 GHz ~ 4 GHz 3.5 dBm ~ -30 dBm 2 GHz ~ 4 GHz -30 dBm ~ -53 dBm 4 GHz ~ 5 GHz 3.5 dBm ~ -30 dBm 4 GHz ~ 5 GHz -30 dBm ~ -53 dBm 5 GHz ~ 6 GHz 3.5 dBm ~ -30 dBm 5 GHz ~ 6 GHz -30 dBm ~ -53 dBm	0.08 dB 0.14 dB 0.15 dB 0.25 dB 0.26 dB 0.34 dB 0.35 dB	Power Sensor, Power meter /CSG-CI-M013
RF Analyzer FM Accuracy		800 MHz ~ 2 GHz -15 dBm ~ 8 dBm Mod Rate 100 Hz Deviation 5 kHz Deviation 10 kHz Mod Rate 1 kHz Deviation 5 kHz Deviation 10 kHz Mod Rate 10 kHz Deviation 5 kHz Deviation 10 kHz	0.31 kHz 0.60 kHz 0.31 kHz 0.60 kHz 0.31 kHz 0.59 kHz	Measuring Receiver /CSG-CI-M013
AF Generator Level Accuracy		100 Hz ~ 5 kHz 6 V 2 V 600 mV 100 mV	8 mV 5 mV 0.8 mV 0.12 mV	DMM/CSG-CI-M013
AF Analyzer Level Accuracy		200 Hz ~ 10 kHz 5 V 500 mV 50 mV	8 mV 0.8 mV 0.09 mV	DMM/CSG-CI-M013
10 MHz Reference Output Accuracy		10 MHz	0.24 Hz	Frequency Counter /CSG-CI-M013

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Network analyzers Frequency Accuracy	40623	50 MHz	11 Hz	Frequency Counter /CSG-CI-M012
		134.1 MHz	28 Hz	
		548 MHz	0.12 kHz	
		3 GHz	0.63 kHz	
		4.5 GHz	0.94 kHz	
		8.5 GHz	1.8 kHz	
		10.5 GHz	2.2 kHz	
		14 GHz	3.0 kHz	
		20 GHz	4.2 kHz	
		30 GHz	6.3 kHz	
		40 GHz	8.4 kHz	
		46 GHz	8.4 kHz	
		RF Output Level Accuracy And Flatness	40623	
68 MHz	0.08 dB			
550 MHz	0.06 dB			
1 050 MHz	0.07 dB			
1 550 MHz	0.07 dB			
2 050 MHz	0.09 dB			
2 550 MHz	0.09 dB			
3 025 MHz	0.09 dB			
3 525 MHz	0.10 dB			
4 025 MHz	0.10 dB			
4 500 MHz	0.10 dB			
5 025 MHz	0.10 dB			
5 525 MHz	0.09 dB			
6 025 MHz	0.09 dB			
6 525 MHz	0.09 dB			
7 025 MHz	0.09 dB			
7 525 MHz	0.08 dB			
8 025 MHz	0.10 dB			
8 500 MHz	0.10 dB			
8 525 MHz	0.10 dB			
9 025 MHz	0.10 dB			
9 525 MHz	0.09 dB			
10 025 MHz	0.09 dB			
10 525 MHz	0.09 dB			
11 025 MHz	0.09 dB			
11 525 MHz	0.10 dB			
12 025 MHz	0.10 dB			
12 525 MHz	0.10 dB			
13 025 MHz	0.09 dB			
13 525 MHz	0.10 dB			
14 000 MHz	0.10 dB			
14 025 MHz	0.11 dB			
14 525 MHz	0.11 dB			

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Network analyzers	40623			
RF Output Level Accuracy And Flatness		15 025 MHz	0.11 dB	Power Sensor,Power Meter /CSG-CI-M012
		15 525 MHz	0.11 dB	
		16 025 MHz	0.11 dB	
		16 525 MHz	0.11 dB	
		17 025 MHz	0.11 dB	
		17 525 MHz	0.11 dB	
		18 025 MHz	0.12 dB	
		18 525 MHz	0.12 dB	
		19 025 MHz	0.12 dB	
		19 525 MHz	0.13 dB	
		20 000 MHz	0.13 dB	
		21 000 MHz	0.53 dB	
		22 000 MHz	0.53 dB	
		23 000 MHz	0.53 dB	
		24 000 MHz	0.53 dB	
		25 000 MHz	0.53 dB	
		26 000 MHz	0.53 dB	
		27 000 MHz	0.53 dB	
		28 000 MHz	0.69 dB	
		29 000 MHz	0.69 dB	
		30 000 MHz	0.69 dB	
		31 000 MHz	0.69 dB	
		32 000 MHz	0.69 dB	
		33 000 MHz	0.69 dB	
		34 000 MHz	0.69 dB	
		35 000 MHz	0.69 dB	
		36 000 MHz	0.69 dB	
		37 000 MHz	0.69 dB	
		38 000 MHz	0.69 dB	
		39 000 MHz	0.69 dB	
		40 000 MHz	0.69 dB	
		41 000 MHz	0.85 dB	
		42 000 MHz	0.85 dB	
		43 000 MHz	0.85 dB	
		44 000 MHz	0.85 dB	
		45 000 MHz	0.85 dB	
		46 000 MHz	0.85 dB	
		47 000 MHz	0.85 dB	
		48 000 MHz	0.85 dB	
		49 000 MHz	0.85 dB	
		50 000 MHz	0.85 dB	
		51 000 MHz	0.62 dB	
		52 000 MHz	0.62 dB	
		53 000 MHz	0.62 dB	
		54 000 MHz	0.61 dB	
		55 000 MHz	0.61 dB	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Network analyzers	40623			
RF Output Level Accuracy And Flatness		56 000 MHz	0.61 dB	Power Sensor,Power Meter /CSG-CI-M012
		57 000 MHz	0.61 dB	
		58 000 MHz	0.61 dB	
		59 000 MHz	0.62 dB	
		60 000 MHz	0.62 dB	
		61 000 MHz	0.62 dB	
		62 000 MHz	0.62 dB	
		63 000 MHz	0.62 dB	
		64 000 MHz	0.62 dB	
		65 000 MHz	0.61 dB	
		66 000 MHz	0.61 dB	
		67 000 MHz	0.61 dB	
RF Output Level Linearity		50 MHz		
		(10 dBm ~ -12.5 dBm)	0.08 dB	
		(-15 dBm ~ -25 dBm)	0.08 dB	
		3 GHz		
		(10 dBm ~ -12.5 dBm)	0.09 dB	
		(-15 dBm ~ -25 dBm)	0.08 dB	
		4.5 GHz		
		(10 dBm ~ -12.5 dBm)	0.10 dB	
		(-15 dBm ~ -25 dBm)	0.08 dB	
		5 GHz		
		(10 dBm ~ -12.5 dBm)	0.10 dB	
		(-15 dBm ~ -25 dBm)	0.08 dB	
		6 GHz		
		(10 dBm ~ -12.5 dBm)	0.09 dB	
		(-15 dBm ~ -25 dBm)	0.08 dB	
		7 GHz		
		(10 dBm ~ -12.5 dBm)	0.09 dB	
		(-15 dBm ~ -25 dBm)	0.08 dB	
		8.5 GHz		
		(9 dBm ~ -12.5 dBm)	0.10 dB	
		(-15 dBm ~ -25 dBm)	0.09 dB	
		10.5 GHz		
		(7 dBm ~ -12.5 dBm)	0.09 dB	
		(-15 dBm ~ -25 dBm)	0.09 dB	
		14 GHz		
		(3 dBm ~ -12.5 dBm)	0.10 dB	
		(-15 dBm ~ -25 dBm)	0.09 dB	
		20 GHz		
		(0 dBm ~ -12.5 dBm)	0.13 dB	
		(-15 dBm ~ -25 dBm)	0.11 dB	
		30 GHz		
		(-15 dBm ~ -25 dBm)	0.12 dB	
		40 GHz		
		(-15 dBm ~ -25 dBm)	0.14 dB	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.	
Network analyzers RF Output Level Linearity	40623	50 GHz (-15 dBm ~ -25 dBm)	0.15 dB	Power Sensor,Power Meter /CSG-CI-M012	
Dynamic Accuracy		50 MHz (0 dBm ~ -20 dBm) (-30 dBm ~ -60 dBm) (-70 dBm) (-80 dBm) (-90 dBm) (-100 dBm)	0.069 dB 0.070 dB 0.071 dB 0.072 dB 0.074 dB 0.087 dB	Power Sensor,Step Attenuator /CSG-CI-M012	
RF power meters Instrument Accuracy (Range)		3 μW 10 μW 30 μW 100 μW 300 μW 1 mW 3 mW 10 mW 30 mW 100 mW	0.43 μW 0.43 μW 0.44 μW 0.44 μW 0.73 μW 0.73 μW 5.8 μW 5.9 μW 0.058 mW 0.059 mW	DC Calibrator/CSG-CI-M006	
Power Reference Level		1 mW	4.1 μW	DMM,Power Meter /CSG-CI-M006	
Thermocouple power sensor Calibration Factor		40637	10 MHz	3.0×10^{-2}	Reference Power Sensors /CSG-CI-M004
			10 MHz ~ 30 MHz	2.1×10^{-2}	
			30 MHz ~ 50 MHz	1.7×10^{-2}	
	50 MHz ~ 100 MHz		1.9×10^{-2}		
	100 MHz ~ 2 GHz		2.0×10^{-2}		
	2 GHz ~ 4 GHz		2.1×10^{-2}		
	4 GHz ~ 6 GHz		2.2×10^{-2}		
	6 GHz ~ 8 GHz		2.1×10^{-2}		
	8 GHz ~ 10 GHz		2.2×10^{-2}		
	10 GHz ~ 11 GHz		2.3×10^{-2}		
	11 GHz ~ 12 GHz		2.2×10^{-2}		
	12 GHz ~ 14 GHz		2.3×10^{-2}		
	14 GHz ~ 15 GHz		2.5×10^{-2}		
	15 GHz ~ 16 GHz	2.8×10^{-2}			
	16 GHz ~ 17 GHz	3.1×10^{-2}			
	17 GHz ~ 18 GHz	3.4×10^{-2}			
Pulse generators Periode	40638	1 ns ~ 1 μs 1 μs ~ 1 ms 1 ms ~ 1 s	21 ps 0.58 ns 0.58 μs	Frequency Counter /CSG-CI-M002	
Frequency		1 Hz ~ 1 kHz 1 kHz ~ 1 MHz 1 MHz ~ 165 MHz	1.9 mHz 0.1 Hz 0.1 kHz	Frequency Counter /CSG-CI-M002	

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Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Pulse generators Width DC Level	40638	1 ns ~ 10 ns	1 ps	Oscilloscope /CSG-CI-M002
		10 ns ~ 100 ns	0.01 ns	
100 ns ~ 1 μs	0.1 ns			
1 μs ~ 1 ms	0.01 μs			
1 ms ~ 10 ms	1 μs			
10 ms ~ 1 s	0.1 ms			
		(0.1 ~ 10) V	0.7 mV	DMM/CSG-CI-M002
RF signal generators 10 MHz Reference Output Accuracy Power Level Accuracy	40640	10 MHz	0.24 Hz	Frequency Counter /CSG-CI-M009
		0.3 MHz (7 dBm ~ -20 dBm)	0.19 dB	Measuring Receiver /CSG-CI-M009
		1 MHz (7 dBm ~ -20 dBm)	0.19 dB	
		10 MHz (7 dBm ~ -20 dBm)	0.19 dB	
		30 MHz (7 dBm ~ -5 dBm)	0.19 dB	
		(-10 dBm ~ -30 dBm)	0.27 dB	
		(-40 dBm ~ -70 dBm)	0.29 dB	
		(-80 dBm ~ -90 dBm)	0.48 dB	
		(-100 dBm ~ -120 dBm)	0.60 dB	
		300 MHz (7 dBm ~ -5 dBm)	0.19 dB	
		(-10 dBm ~ -30 dBm)	0.27 dB	
		(-40 dBm ~ -70 dBm)	0.29 dB	
		(-80 dBm ~ -90 dBm)	0.48 dB	
		(-100 dBm ~ -120 dBm)	0.60 dB	
		500 MHz (7 dBm ~ -5 dBm)	0.19 dB	
		(-10 dBm ~ -30 dBm)	0.27 dB	
		(-40 dBm ~ -70 dBm)	0.29 dB	
		(-80 dBm ~ -90 dBm)	0.48 dB	
		(-100 dBm ~ -120 dBm)	0.60 dB	
		1 000 MHz (7 dBm ~ -5 dBm)	0.19 dB	
		(-10 dBm ~ -30 dBm)	0.27 dB	
		(-40 dBm ~ -70 dBm)	0.29 dB	
		(-80 dBm ~ -90 dBm)	0.48 dB	
		(-100 dBm ~ -120 dBm)	0.60 dB	
		2 000 MHz (7 dBm ~ -5 dBm)	0.37 dB	
		(-10 dBm ~ -20 dBm)	0.43 dB	
		(-30 dBm ~ -60 dBm)	0.46 dB	
		(-70 dBm ~ -90 dBm)	0.51 dB	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.	
RF signal generators Power Level Accuracy	40640	3 000 MHz		Measuring Receiver /CSG-CI-M009	
		(7 dBm ~ -5 dBm)	0.38 dB		
		(-10 dBm ~ -20 dBm)	0.44 dB		
		(-30 dBm ~ -60 dBm)	0.47 dB		
		(-70 dBm ~ -90 dBm)	0.52 dB		
		4 000 MHz			
		(7 dBm ~ -5 dBm)	0.38 dB		
		(-10 dBm ~ -20 dBm)	0.44 dB		
		(-30 dBm ~ -60 dBm)	0.47 dB		
		(-70 dBm ~ -90 dBm)	0.52 dB		
		5 000 MHz			
		(7 dBm ~ -5 dBm)	0.38 dB		
		(-10 dBm ~ -20 dBm)	0.44 dB		
		(-30 dBm ~ -60 dBm)	0.47 dB		
		(-70 dBm ~ -90 dBm)	0.52 dB		
		6 000 MHz			
		(7 dBm ~ -5 dBm)	0.38 dB		
		(-10 dBm ~ -20 dBm)	0.44 dB		
		(-30 dBm ~ -60 dBm)	0.47 dB		
		(-70 dBm ~ -90 dBm)	0.52 dB		
		8 000 MHz			
		(7 dBm ~ -5 dBm)	0.38 dB		
		(-10 dBm ~ -20 dBm)	0.44 dB		
		(-30 dBm ~ -60 dBm)	0.47 dB		
		(-70 dBm ~ -90 dBm)	0.52 dB		
		10 000 MHz			
		(7 dBm ~ -5 dBm)	0.38 dB		
		(-10 dBm ~ -20 dBm)	0.44 dB		
		(-30 dBm ~ -60 dBm)	0.47 dB		
		(-70 dBm ~ -90 dBm)	0.52 dB		
		14 000 MHz			
		(7 dBm ~ -5 dBm)	0.39 dB		
		(-10 dBm ~ -20 dBm)	0.44 dB		
		(-30 dBm ~ -60 dBm)	0.47 dB		
		(-70 dBm ~ -90 dBm)	0.52 dB		
		18 000 MHz			
		(7 dBm ~ -5 dBm)	0.39 dB		
		(-10 dBm ~ -20 dBm)	0.44 dB		
		(-30 dBm ~ -60 dBm)	0.47 dB		
		(-70 dBm ~ -90 dBm)	0.52 dB		
22 000 MHz					
(7 dBm ~ -5 dBm)	0.66 dB				
(-10 dBm ~ -20 dBm)	0.69 dB				
(-30 dBm ~ -60 dBm)	0.71 dB				
(-70 dBm ~ -90 dBm)	0.70 dB				
26 500 MHz					
(7 dBm ~ -5 dBm)	0.69 dB				
(-10 dBm ~ -20 dBm)	0.72 dB				

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.		
RF signal generators Power Level Accuracy	40640	26 500 MHz (-30 dBm ~ -60 dBm)	0.73 dB	Measuring Receiver /CSG-CI-M009		
		(-70 dBm ~ -90 dBm)	0.73 dB			
		30 000 MHz (7 dBm ~ -20 dBm)	0.85 dB			
		34 000 MHz (7 dBm ~ -20 dBm)	0.85 dB			
		38 000 MHz (7 dBm ~ -20 dBm)	0.85 dB			
		40 000 MHz (7 dBm ~ -20 dBm)	0.86 dB			
		44 000 MHz (7 dBm ~ -20 dBm)	0.86 dB			
		48 000 MHz (7 dBm ~ -20 dBm)	0.86 dB			
		52 000 MHz (7 dBm ~ -20 dBm)	0.49 dB			
		56 000 MHz (7 dBm ~ -20 dBm)	0.48 dB			
		60 000 MHz (7 dBm ~ -20 dBm)	0.48 dB			
		64 000 MHz (7 dBm ~ -20 dBm)	0.49 dB			
		67 000 MHz (7 dBm ~ -20 dBm)	0.44 dB			
		FM Deviation Accuracy	50 kHz ~ 100 kHz		5.9 kHz	Measuring Receiver /CSG-CI-M009
		AM Accuracy	300 MHz ~ 1.3 GHz		30 %	0.48 %
90 %	1.1 %					
1.3 GHz ~ 26.5 GHz	30 %			0.62 %		
	90 %			1.7 %		
FM Distortion	DC ~ 50 kHz 50 kHz ~ 100 kHz	0.009 %	Audio Analyzer /CSG-CI-M009			
		0.009 %				
AM Distortion	501 kHz ~ 26.5 GHz	30 %	0.009 %	Audio Analyzer /CSG-CI-M009		
		90 %	0.009 %			
Harmonic Spurious		0.25 MHz ~ 10 MHz	0.8 dB	Spectrum Analyzer /CSG-CI-M009		
		10 MHz ~ 3 GHz	1.4 dB			
		3 GHz ~ 13.2 GHz	2.6 dB			
		13.2 GHz ~ 19 GHz	3.0 dB			
		19 GHz ~ 26.5 GHz	3.9 dB			

406. Radio frequency measurement

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	10 MHz	0.23 Hz	Frequency Counter /CSG-CI-M011	
10 MHz Reference Output Accuracy					
Power Bandwidth Accuracy		RBW 3 Hz ~1 MHz	0.08 dB	Spectrum Analyzer /CSG-CI-M011	
Resolution Bandwidth Switching Uncertainty		RBW 300 Hz ~ 8 MHz	0.08 dB	Spectrum Analyzer /CSG-CI-M011	
Displayed Average Noise Level		5 MHz	0.7 dB	Spectrum Analyzer /CSG-CI-M011	
		2 GHZ	1.8 dB		
		6 GHZ	2.3 dB		
		13 GHZ	2.7 dB		
		20 GHZ	2.1 dB		
		26.5 GHZ	2.7 dB		
	40 GHZ	2.7 dB			
	50 GHZ	2.7 dB			
Frequency Readout Accuracy	517.590 MHz Span 1.98 MHz	2 kHz	Spectrum Analyzer /CSG-CI-M011		
	832.500 MHz Span 1.98 MHz	2 kHz			
	1 505.00 MHz Span 318 MHz	0.31 MHz			
	1 505.00 MHz Span 127.2 MHz	0.12 MHz			
	1 505.00 MHz Span 54.1 MHz	0.05 MHz			
	1 505.000 0 MHz Span 7.95 MHz	7.7 kHz			
	1 505.0 MHz Span 106 MHz	0.1 MHz			
	Frequency Span Accuracy	517.590 MHz Span 1 MHz		3 kHz	Spectrum Analyzer /CSG-CI-M011
		517.590 MHz Span 1.98 MHz		6 kHz	
		628.600 MHz Span 1.98 MHz		6 kHz	
819.600 MHz Span 1.98 MHz		6 kHz			
832.500 MHz Span 1 MHz		3 kHz			
832.500 MHz Span 1.98 MHz		6 kHz			
832.500 MHz Span 2 MHz		6 kHz			

406. Radio frequency measurement

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	832.500 MHz Span 100 MHz	0.3 MHz	Spectrum Analyzer /CSG-CI-M011
Frequency Span Accuracy				
Count Accuracy		1 GHz	0.6 Hz	Spectrum Analyzer /CSG-CI-M011
Absolute Amplitude Accuracy		-10 dBm ~ -50 dBm	0.25 dB	Power Sensor, Step Attenuator /CSG-CI-M011
Frequency Response		50 MHz	0.08 dB	Power Sensor, Power Splitter /CSG-CI-M011
		150 MHz	0.08 dB	
		350 MHz	0.08 dB	
		550 MHz	0.08 dB	
		750 MHz	0.08 dB	
		950 MHz	0.08 dB	
		1 150 MHz	0.08 dB	
		1 350 MHz	0.08 dB	
		1 550 MHz	0.08 dB	
		1 750 MHz	0.08 dB	
		1 950 MHz	0.08 dB	
		2 150 MHz	0.08 dB	
		2 350 MHz	0.08 dB	
		2 550 MHz	0.08 dB	
		2 750 MHz	0.08 dB	
		2 950 MHz	0.08 dB	
		3 150 MHz	0.08 dB	
		3 350 MHz	0.08 dB	
		3 550 MHz	0.08 dB	
		3 650 MHz	0.08 dB	
		3 850 MHz	0.08 dB	
		4 050 MHz	0.08 dB	
		4 250 MHz	0.08 dB	
4 450 MHz	0.08 dB			
4 650 MHz	0.08 dB			
4 850 MHz	0.08 dB			
5 050 MHz	0.08 dB			
5 250 MHz	0.08 dB			
5 450 MHz	0.08 dB			
5 650 MHz	0.08 dB			
5 850 MHz	0.08 dB			
6 050 MHz	0.09 dB			
6 250 MHz	0.09 dB			
6 450 MHz	0.09 dB			
6 650 MHz	0.09 dB			
6 850 MHz	0.09 dB			
7 050 MHz	0.09 dB			
7 250 MHz	0.09 dB			
7 450 MHz	0.09 dB			
7 650 MHz	0.09 dB			

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
RF spectrum analyzers Frequency Response	40641	7 850 MHz	0.09 dB	Power Sensor, Power Splitter /CSG-CI-M011
		8 050 MHz	0.09 dB	
		8 250 MHz	0.09 dB	
		8 450 MHz	0.09 dB	
		8 650 MHz	0.09 dB	
		8 850 MHz	0.09 dB	
		9 050 MHz	0.09 dB	
		9 250 MHz	0.09 dB	
		9 450 MHz	0.09 dB	
		9 650 MHz	0.09 dB	
		9 850 MHz	0.09 dB	
		10 050 MHz	0.09 dB	
		11 050 MHz	0.09 dB	
		12 050 MHz	0.09 dB	
		13 050 MHz	0.09 dB	
		14 050 MHz	0.09 dB	
		15 050 MHz	0.09 dB	
		16 050 MHz	0.09 dB	
		17 050 MHz	0.09 dB	
		18 050 MHz	0.12 dB	
		19 050 MHz	0.12 dB	
		20 050 MHz	0.12 dB	
		21 050 MHz	0.12 dB	
		22 050 MHz	0.12 dB	
		23 050 MHz	0.12 dB	
		24 050 MHz	0.12 dB	
		25 050 MHz	0.12 dB	
		26 050 MHz	0.12 dB	
		26 450 MHz	0.12 dB	
		27 050 MHz	0.14 dB	
		28 050 MHz	0.14 dB	
		29 050 MHz	0.14 dB	
		30 050 MHz	0.14 dB	
		31 050 MHz	0.14 dB	
		32 050 MHz	0.14 dB	
		33 050 MHz	0.14 dB	
		34 050 MHz	0.14 dB	
		35 050 MHz	0.14 dB	
		36 050 MHz	0.14 dB	
		37 050 MHz	0.14 dB	
		38 050 MHz	0.14 dB	
		39 050 MHz	0.22 dB	
		40 050 MHz	0.19 dB	
		41 050 MHz	0.19 dB	
		42 050 MHz	0.19 dB	
43 050 MHz	0.19 dB			
44 050 MHz	0.19 dB			
45 050 MHz	0.22 dB			

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
RF spectrum analyzers Frequency Response	40641	46 050 MHz	0.22 dB	Power Sensor, Power Splitter /CSG-CI-M011
		47 050 MHz	0.22 dB	
		48 050 MHz	0.22 dB	
		49 050 MHz	0.22 dB	
		50 050 MHz	0.22 dB	