

Technical Specification

Frequency range	Model	DC coupled	AC coupled
	4082B	2Hz to 8.4GHz	10MHz to 8.4GHz
	4082D	2Hz to 18GHz	10MHz to 18GHz
	4082E	2Hz to 26.5GHz	10MHz to 26.5GHz
	4082F	2Hz to 45GHz	10MHz to 45GHz
	4082H	2Hz to 50GHz	10MHz to 50GHz
	4082L	2Hz to 67GHz	10MHz to 67GHz
	4082N	2Hz to 90GHz	—
	4082P	2Hz to 110GHz	—
10 MHz Precise Frequency Reference	Frequency accuracy: $\pm$ (last calibration date $\times$ aging rate + temperature stability + calibration accuracy) Aging rate: $\pm 5 \times 10^{-10}$ /day Temperature stability: $\pm 1.5 \times 10^{-8}$		
Frequency Readout Accuracy	$\pm$ (frequency readout $\times$ frequency reference accuracy+0.1% frequency band+5% resolution bandwidth+2Hz+0.5 horizontal resolution*) *: horizontal resolution = span/ (sweep points – 1)		
Sweep Points	101 to 120001		
Frequency Counting Accuracy	$\pm$ (frequency readout $\times$ frequency reference accuracy+0.1Hz)		

Span	Range: 0Hz (zero frequency span),10Hz to the highest frequency of the model Accuracy: $\pm (0.1\% \times \text{Frequency span} + \text{Frequency span} / (\text{sweep points}-1))$
Sweep Time Range	Frequency span $\geq 10\text{Hz}$: 3μs to 16000s Frequency span $= 0\text{Hz}$: 1μs to 16000s
Resolution Bandwidth	Range: 0.1Hz to 20MHz (1,2,3,5 steps) Conversion uncertainty: $\pm 0.10\text{dB}$ 1Hz to 3MHz (1,2,3,5 steps) $\pm 0.30\text{dB}$ 5MHz to 20MHz (1,2,3,5 steps)
Analysis Bandwidth	Standard: 10MHz Option H38-40: 40MHz Option H38-200: 200MHz Option H38-400: 400MHz Option H38-600: 600MHz Option H38-1200: 1.2GHz Option H38-2000: 2GHz
Video Bandwidth	1Hz to 20MHz (1,2,3,5 steps)
Trigger Source	Free, Line, video, external 1, external level 2, burst RF, timer
Trace Detector	Normal, positive peak, negative peak, sample, video average, power average, voltage average
SSB Phase Noise	Frequency offset Specfication Typical

(1GHz carrier,20°C ~ 30°C)	100Hz	-107dBc/Hz	-115dBc/Hz
	1kHz	-125dBc/Hz	-128dBc/Hz
	10kHz	-134dBc/Hz	-135dBc/Hz
	100kHz	-136dBc/Hz	-137dBc/Hz
	1MHz	-140dBc/Hz	-140dBc/Hz
	10MHz	-152dBc/Hz	-154dBc/Hz
Residual FM	≤(0.25 Hz x N) p-p, (10Hz resolution bandwidth, 10Hz video bandwidth, the rated value within 20ms N is the number of frequency multiple times of LO)		
Displayed Average Noise Level (the input end is connected to match load, sample or average wave detection, the average type is logarithm, 0dB input attenuation, RF gain takes the DANL as the priority, Normalized to 1Hz, 20°C ~ 30°C)	4082B (Without Pre-amplifier)		
	Frequency Range	Specification	Typical
	10MHz ≤ f ≤100MHz	-149dBm	-151dBm
	100MHz < f ≤1.2GHz	-152dBm	-154dBm
	1.2GHz < f ≤2.2GHz	-151dBm	-153dBm
	2.2GHz < f ≤3.25GHz	-150dBm	-153dBm
	3.25GHz< f ≤ 5.25GHz	-148dBm	-150dBm
	5.25GHz < f ≤ 6.5GHz	-144dBm	-148dBm
	6.5GHz < f ≤ 8.4GHz	-142dBm	-145dBm
	4082B (Pre-amplifier ON)		
	Frequency Range	Specification	Typical
	10MHz ≤ f ≤100MHz	-156dBm	-158dBm
	100MHz < f ≤ 3.25GHz	-161dBm	-163dBm
3.25GHz < f ≤ 5.25GHz	-160dBm	-162dBm	
5.25GHz < f ≤ 8.4GHz	-156dBm	-159dBm	

	4082D/E/F/H (Without Pre-amplifier)		
	Frequency Range	Specification	Typical
	10MHz ≤ f ≤ 100MHz	-147dBm	-150dBm
	100MHz < f ≤ 1.2GHz	-151dBm	-153dBm
	1.2GHz < f ≤ 2.2GHz	-150dBm	-152dBm
	2.2GHz < f ≤ 3.25GHz	-148dBm	-150dBm
	3.25GHz < f ≤ 5.25GHz	-145dBm	-148dBm
	5.25GHz < f ≤ 6.5GHz	-142dBm	-147dBm
	6.5GHz < f ≤ 8.2GHz	-140dBm	-143dBm
	8.2GHz < f ≤ 18GHz	-143dBm	-145dBm
	18GHz < f ≤ 26.5GHz	-137dBm	-141dBm
	26.5GHz < f ≤ 40GHz	-130dBm	-133dBm
	40GHz < f ≤ 50GHz	-127dBm	-129dBm
	4082D/E/F/H (Pre-amplifier ON)		
	Frequency Range	Specification	Typical
	10MHz ≤ f ≤ 100MHz	-155dBm	-158dBm
	100MHz < f ≤ 3.25GHz	-162dBm	-164dBm
	3.25GHz < f ≤ 5.25GHz	-160dBm	-163dBm
	5.25GHz < f ≤ 8.4GHz	-156dBm	-158dBm
	8.2GHz < f ≤ 18GHz	-157dBm	-159dBm
	18GHz < f ≤ 26.5GHz	-154dBm	-156dBm
	26.5GHz < f ≤ 40GHz	-151dBm	-153dBm
	40GHz < f ≤ 50GHz	-148dBm	-151dBm

	4082L (Without Pre-amplifier)		
	Frequency Range	Specification	Typical
	10MHz ≤ f ≤ 100MHz	-147dBm	-150dBm
	100MHz < f ≤ 1.2GHz	-150dBm	-152dBm
	1.2GHz < f ≤ 2.2GHz	-149dBm	-152dBm
	2.2GHz < f ≤ 3.25GHz	-148dBm	-150dBm
	3.25GHz < f ≤ 5.25GHz	-145dBm	-148dBm
	5.25GHz < f ≤ 6.5GHz	-142dBm	-149dBm
	6.5GHz < f ≤ 8.2GHz	-140dBm	-143dBm
	8.2GHz < f ≤ 18GHz	-143dBm	-145dBm
	18GHz < f ≤ 26.5GHz	-137dBm	-141dBm
	26.5GHz < f ≤ 40GHz	-130dBm	-133dBm
	40GHz < f ≤ 50GHz	-127dBm	-129dBm
	50GHz < f ≤ 54.8GHz	-135dBm	-139dBm
	54.8GHz < f ≤ 63.6GHz	-133dBm	-137dBm
	63.6GHz < f ≤ 67GHz	-131dBm	-135dBm
	4082L (Pre-amplifier ON)		
	Frequency Range	Specification	Typical
	10MHz ≤ f ≤ 100MHz	-157dBm	-160dBm
	100MHz < f ≤ 3.25GHz	-162dBm	-164dBm
	3.25GHz < f ≤ 5.25GHz	-161dBm	-163dBm
	5.25GHz < f ≤ 8.2GHz	-154dBm	-156dBm
	8.2GHz < f ≤ 18GHz	-156dBm	-159dBm
	18GHz < f ≤ 26.5GHz	-154dBm	-157dBm

	26.5GHz < f ≤40GHz	-151dBm	-153dBm
	40GHz < f ≤48GHz	-145dBm	-150dBm
	48GHz < f ≤54.8GHz	-146dBm	-152dBm
	54.8GHz < f ≤63.6GHz	-142dBm	-148dBm
	63.6GHz < f ≤67GHz	-140dBm	-143dBm
	4082N/P (Without Pre-amplifier) RF Port 2		
	Frequency Range	Specification	Typical
	10MHz ≤ f ≤100MHz	-145dBm	-148dBm
	100MHz < f ≤1.2GHz	-148dBm	-149dBm
	1.2GHz < f ≤ 2.2GHz	-146dBm	-148dBm
	2.2GHz < f ≤ 3.25GHz	-144dBm	-147dBm
	3.25GHz < f ≤ 5.25GHz	-141dBm	-146dBm
	5.25GHz < f ≤ 6.5GHz	-140dBm	-146dBm
	6.5GHz < f ≤ 8.2GHz	-138dBm	-141dBm
	8.2GHz < f ≤18GHz	-141dBm	-143dBm
	18GHz < f ≤26.5GHz	-135dBm	-139dBm
	26.5GHz < f ≤40GHz	-127dBm	-133dBm
	40GHz < f ≤50GHz	-122dBm	-125dBm
	50GHz < f ≤54.8GHz	-133dBm	-135dBm
	54.8GHz < f ≤63.6GHz	-130dBm	-133dBm
	63.6GHz < f ≤67.2GHz	-128dBm	-131dBm
	67.2GHz < f ≤ 74GHz	-138dBm	-141dBm
	73.8GHz < f ≤ 82.8GHz	-143dBm	-145dBm

	82.6GHz < f ≤ 91.6GHz	-142dBm	-144dBm
	91.4GHz < f ≤ 99.6GHz	-141dBm	-144dBm
	99.4GHz < f ≤ 110GHz	-138dBm	-141dBm
	4082N/P (Pre-amplifier ON) RF Port 1		
	Frequency Range	Specification	Typical
	10MHz ≤ f ≤ 100MHz	-155dBm	-158dBm
	100MHz < f ≤ 3.25GHz	-160dBm	-162dBm
	3.25GHz < f ≤ 5.25GHz	-159dBm	-161dBm
	5.25GHz < f ≤ 8.2GHz	-152dBm	-154dBm
	8.2GHz < f ≤ 18GHz	-154dBm	-157dBm
	18GHz < f ≤ 26.5GHz	-151dBm	-155dBm
	26.5GHz < f ≤ 40GHz	-149dBm	-151dBm
	40GHz < f ≤ 48GHz	-147dBm	-149dBm
	48GHz < f ≤ 54.8GHz	-146dBm	-149dBm
	54.8GHz < f ≤ 63.6GHz	-142dBm	-145dBm
	63.6GHz < f ≤ 67GHz	-135dBm	-137dBm
Frequency Response & Absolute Amplitude Accuracy (10dB attenuation, 20°C ~ 30°C)	4082B (Without Pre-amplifier)		
	Frequency Range	Specification	Typical
	10MHz ≤ f ≤ 100MHz	±0.50dB	±0.34dB
	100MHz < f ≤ 3.25GHz	±0.40dB	±0.30dB
	3.25GHz < f ≤ 5.25GHz	±0.50dB	±0.31dB
	5.25GHz < f ≤ 8.4GHz	±0.50dB	±0.33dB
	4082B (Pre-amplifier ON)		
	Frequency Range	Specification	Typical

	100kHz ≤ f ≤ 100MHz	±0.80dB	±0.50dB
	100MHz < f ≤ 3.25GHz	±0.70dB	±0.50dB
	3.25GHz < f ≤ 5.25GHz	±0.80dB	±0.60dB
	5.25GHz < f ≤ 8.4GHz	±0.90dB	±0.70dB
	4082D/E/F/H (Without Pre-amplifier)		
	Frequency Range	Specification	Typical
	10MHz ≤ f ≤ 100MHz	±0.50dB	±0.34dB
	100MHz < f ≤ 3.25GHz	±0.40dB	±0.30dB
	3.25GHz < f ≤ 5.25GHz	±0.50dB	±0.31dB
	5.25GHz < f ≤ 8.2GHz	±0.50dB	±0.33dB
	8.2GHz < f ≤ 18GHz	±1.50dB	±0.95dB
	18GHz < f ≤ 26.5GHz	±1.80dB	±0.95dB
	26.5GHz < f ≤ 40GHz	±2.50dB	±1.50dB
	40GHz < f ≤ 50GHz	±2.80dB	±1.60dB
	4082D/E/F/H (Pre-amplifier ON)		
	Frequency Range	Specification	Typical
	100kHz ≤ f ≤ 100MHz	±0.50dB	±0.34dB
	100MHz < f ≤ 3.25GHz	±0.70dB	±0.50dB
	3.25GHz < f ≤ 5.25GHz	±0.80dB	±0.60dB
	5.25GHz < f ≤ 8.2GHz	±0.90dB	±0.70dB
	8.2GHz < f ≤ 18GHz	±2.00dB	±1.35dB
	18GHz < f ≤ 26.5GHz	±2.30dB	±1.55dB
	26.5GHz < f ≤ 40GHz	±2.80dB	±1.86dB
	40GHz < f ≤ 50GHz	±3.00dB	±2.00dB

	4082L/N/P (Without Pre-amplifier)		
	Frequency Range	Specification	Typical
	10MHz ≤ f ≤ 100MHz	±0.50dB	±0.34dB
	100MHz < f ≤ 3.25GHz	±0.40dB	±0.30dB
	3.25GHz < f ≤ 5.25GHz	±0.50dB	±0.31dB
	5.25GHz < f ≤ 8.2GHz	±0.50dB	±0.33dB
	8.2GHz < f ≤ 18GHz	±1.50dB	±0.95dB
	18GHz < f ≤ 26.5GHz	±1.80dB	±0.95dB
	26.5GHz < f ≤ 40GHz	±2.50dB	±1.50dB
	40GHz < f ≤ 48GHz	±2.80dB	±1.60dB
	48GHz < f ≤ 67GHz	±3.0 0dB	±1.50dB
	67GHz < f ≤ 110GHz	±4.00 dB	±2.50dB
	4082L/N/P (Pre-amplifier ON)		
	Frequency Range	Specification	Typical
	100kHz ≤ f ≤ 100MHz	±0.50dB	±0.34dB
	100MHz < f ≤ 3.25GHz	±0.70dB	±0.50dB
	3.25GHz < f ≤ 5.25GHz	±0.80dB	±0.60dB
	5.25GHz < f ≤ 8.2GHz	±0.90dB	±0.70dB
	8.2GHz < f ≤ 18GHz	±2.00dB	±1.35dB
	18GHz < f ≤ 26.5GHz	±2.30dB	±1.55dB
	26.5GHz < f ≤ 40GHz	±2.80dB	±1.86dB
	40GHz < f ≤ 48GHz	±3.00dB	±2.00dB
	48GHz < f ≤ 67GHz	±3.50dB	±2.50dB

	Absolute Amplitude Accuracy Absolute amplitude accuracy (10 dB attenuation, 20°C ~ 30°C, 1 Hz ≤resolution bandwidth≤ 1 MHz, input signal -10 to -50 dBm): ±0.24dB500MHz ± (0.24dB+frequency response) all frequency except 500MHz frequency point		
1dB Gain Compression (mixer level, dual-tone test, resolution bandwidth is 5kHz, 3MHz frequency interval, 20°C ~ 30°C)	4082B		
	Frequency range	Mixer Input Level	Typical
	10MHz ≤ f ≤100MHz	+14dBm	+16dBm
	100MHz < f ≤ 3.25GHz	+18dBm	+20dBm
	3.25GHz < f ≤ 5.25GHz	+18dBm	+20dBm
	5.25GHz < f ≤ 8.4GHz	+17dBm	+19dBm
	4082D/E/F/H/		
	Frequency range	Mixer Input Level	Typical
	20MHz ≤ f ≤3.25GHz	≥+5dBm	≥+10dBm
	3.25GHz < f ≤50GHz	≥+7dBm	≥+11dBm
	4082L/N/P		
	Frequency range	Mixer Input Level	Typical
	20MHz≤ f ≤5.25GHz	≥+5dBm	≥+10dBm
5.25GHz < f ≤ 8.2GHz	≥+7dBm	≥+11dBm	
8.2GHz < f ≤ 67GHz	≥+6dBm	≥+11dBm	
67GHz < f ≤ 90GHz	≥-3dBm	/	
90GHz < f ≤ 110GHz	≥-1dBm	/	
TOI distortion (input mixer 2 -10dBm signal test,	4082B		
	Frequency Range	Specification	Typical
	10MHz ≤ f ≤100MHz	+14dBm	+16dBm

frequency interval is 50kHz,20°C ~ 30°C)	100MHz < f ≤ 3.25GHz	+18dBm	+20dBm
	3.25GHz < f ≤ 5.25GHz	+18dBm	+20dBm
	5.25GHz f ≤ 8.4GHz	+17dBm	+19dBm
	4082D/E/F/H/L/N/P		
	Frequency Range	Specification	Typical
	10MHz ≤ f ≤100MHz	+14dBm	+16dBm
	100MHz < f ≤ 3.25GHz	+18dBm	+20dBm
	3.25GHz < f ≤ 5.25GHz	+20dBm	+23dBm
	5.25GHz < f ≤ 8.2GHz	+21dBm	+23dBm
	8.2GHz < f ≤50GHz	+18dBm	+20dBm
	50GHz < f ≤67GHz	+18dBm	+20dBm
Residual response (the input end is connected to match load, 0dB attenuation)	≤-98dBm 1MHz ≤ f ≤8GHz RF Port 1		
IQ Data	Memory depth (IQ length): 500M IQ samples IQ bits length: 32 bit I,32 bit Q(Analysis bandwidth ≤40MHz) Memory depth (IQ length): 1000M IQ samples IQ bits length: 16 bit I, 16 bit Q(Analysis bandwidth>40MHz)		
Dimensions	W (mm)×H (mm)×D (mm): (426±4) mm ×(222±4) mm ×(450±4) mm(excluding handle, foot-pad, bottom feet)		
Weight	About 35kg (different configuration have different weights)		
Power supply	AC 100 to 240V:50 to 60Hz		

Power Consumption	Maximum 450W(Standard configuration)
Temperature Range	Operating temperature:0°C~+50°C Storage temperature:-40°C~+70°C

Notes:

1. Rated values refer to the estimated performance, or the performance which is useful for the product beyond the warrant range.
2. Typical value refers to other performance information beyond the product guarantee range; when the performance is over the technical index, 80% of the samples will present 95% confidence within 20°C ~ 30°C temperature range; typical performance excludes test uncertainty.

Ordering Information

- Mainframe:

Model	Description	Frequency range
4082B	Signal/Spectrum Analyzer	2Hz to 8.4GHz
4082D	Signal/Spectrum Analyzer	2Hz to 18GHz
4082E	Signal/Spectrum Analyzer	2Hz to 26.5GHz
4082F	Signal/Spectrum Analyzer	2Hz to 45GHz
4082H	Signal/Spectrum Analyzer	2Hz to 50GHz
4082L	Signal/Spectrum Analyzer	2Hz to 67GHz
4082N	Signal/Spectrum Analyzer	2Hz to 90GHz
4082P	Signal/Spectrum Analyzer	2Hz to 110GHz

- Option:

No.	Description	Functions
4082-H02	Auxiliary IF output	Output second IF signal, the frequency is 425MHz,750MHz,1.5GHz
4082-H08	Wideband Log detect output	Output a logarithmic detection signal reflecting the level characteristics of the input signal
4082-H11	10 Gigabit Ethernet Control and Data Interface	Optical fiber based 10 gigabit network interface
4082-H19-2T	Local memory expansion	Supports up to 2TB storage memory (electronic hard disk)
4082-H19-4T	Local memory expansion	Supports up to 4TB storage memory (electronic hard disk)
4082-H33-08	Electronic attenuator	Frequency range: 9kHz to 8GHz,attenuation range: 30dB,in 0.5dB steps

4082-H34-08	Low-noise preamplifier	The preamplifier is selected according to the frequency upper limit of the signal analyzer Example: 4082B frequency upper limit is 8.4GHz,Pre-amplifier need to select option H34-08
4082-H34-18	Low-noise preamplifier	The preamplifier is selected according to the frequency upper limit of the signal analyzer. Example: 4082D frequency upper limit is 18GHz,Pre-amplifier need to select option H34-18.
4082-H34-26	Low-noise preamplifier	The preamplifier is selected according to the frequency upper limit of the signal analyzer. Example: 4082E frequency upper limit is 26.5GHz,Pre-amplifier need to select option H34-26.
4082-H34-45	Low-noise preamplifier	The preamplifier is selected according to the frequency upper limit of the signal analyzer. Example: 4082F frequency upper limit is 45GHz,Pre-amplifier need to select option H34-45.
4082-H34-50	Low-noise preamplifier	The preamplifier is selected according to the frequency upper limit of the signal analyzer. Example: 4082H frequency upper limit is 50GHz,Pre-amplifier need to select option H34-50.
4082-H34-67	Low-noise preamplifier	The preamplifier is selected according to the frequency upper limit of the signal analyzer. Example: 4082L frequency upper limit is 50GHz,Pre-amplifier need to select option H34-67.
4082-H34A-08	Low-noise preamplifier	Only 4082B mainframe can be configured, and 4082-H34-08 is not optional at the same time.

4082-H36	Pre-selector Bypass	The tracking pre-selector in the bypass receiving channel.
4082-H38-40	40MHz Analysis bandwidth	Support 10Hz to 40MHz Analysis bandwidth
4082-H38-200	200MHz Analysis bandwidth	Support 10Hz to 200MHz Analysis bandwidth
4082-H38-400	400MHz Analysis bandwidth	Support 10Hz to 400MHz Analysis bandwidth
4082-H38-600	600MHz Analysis bandwidth	Support 10Hz to 600MHz Analysis bandwidth
4082-H38-1200	1.2GHz Analysis bandwidth	Support 10Hz to 1.2GHz Analysis bandwidth
4082-H38-2000	2GHz Analysis bandwidth	Support 10Hz to 2GHz Analysis bandwidth
4082-H40	External frequency extender	To extend the frequency range using external frequency mixing method. This option provides LO output and IF input, as well as signal recognition ability. (Notes: this option can be selected when the main unit is not 4052B: the extended frequency range depends on the selected extension modules; the frequency extension module needs to buy additionally)
4082-H41-200	Real-time spectrum analysis	This option provides digital phosphor spectrum and seamless waterfall, including frequency template trigger, which can support real-time spectrum analysis of 200MHz bandwidth.
4082-H41-400	Real-time spectrum analysis	This option provides digital phosphor spectrum and seamless waterfall, including frequency template trigger, which can support real-time spectrum analysis of 400MHz bandwidth.
4082-H41-600	Real-time spectrum analysis	This option provides digital phosphor spectrum and seamless waterfall, including frequency template trigger, which can support real-time spectrum analysis of 600MHz bandwidth.

4082-H41-1200	Real-time spectrum analysis	This option provides digital phosphor spectrum and seamless waterfall, including frequency template trigger, which can support real-time spectrum analysis of 1.2GHz bandwidth.
4082-H48	Noise figure analysis	Provide noise source drive and noise figure measurement function. 4082N/P only support maximum 67GHz noise figure measurement.(note: the option need to select H34 low-noise pre-amplifier option and corresponding 1660X noise source to finish the noise figure measurement.)
4082-H96	User manual (paper publication)	Provide a detailed user manual in hard copy
4082-H97	Mounting rack	handles and accessories for 4052 mounting on standard racks
4082-H99	Aluminum transportation case	High-strength lightweight aluminum transportation case, with handle and roller, convenient for transportation
4082-S02	Noise power ratio measurement	Provide noise power ratio parameters measurement
4082-S04	Phase noise measurement	SSB phase noise curves and single-point phase noise measurement
4082-S05	EMC Pre-Compliance	Provide EMC pre-compliance measurement function
4082-S10	Transient analyzer	To realize the measurement & analysis of transient parameters, spectrum, and time-varying characteristics of signals, support playback of the recorded data.
4082-S12	Vector signal analyzer	This option provides flexible demodulation functions of multiple single-carrier digital modulation signals. It can provide vector charts, constellation diagrams, eye diagrams, spectrum diagrams, etc., to analyze the characteristics of the modulation signal. The modulation error of the signal can be obtained by demodulation, which helps to judge the cause of the signal error.

4082-S13	Pulse signal analyzer	Automatic measurement on time, level and modulation parameters of pulse waveform and statistical analysis of pulse sequence
4082-S16	Multicarrier group delay measurement	Provides absolute and relative group delay measurement capability for wideband signals
4082-S40	WLAN 802.11a/b/g measurement	Broadband wireless local area network protocol physical layer test (802.11a/ b/g), covering radio frequency, modulation analysis, and modulation quality testing.
4082-S40N	WLAN 802.11n measurement	Broadband wireless local area network protocol physical layer test (802.11n), covering radio frequency, modulation analysis, and modulation quality testing.
4082-S40AC	WLAN 802.11ac measurement	Broadband wireless local area network protocol physical layer test (802.11ac), covering radio frequency, modulation analysis, and modulation quality testing.
4082-S40AX	WLAN 802.11ax measurement	Broadband wireless local area network protocol physical layer test (802.11ax), covering radio frequency, modulation analysis, and modulation quality testing.
4082-S46D	5G NR Downlink signal measurement	Support 5G NR DOWNlink signal demodulation, EVM, spectrum flatness, time alignment error; Support ACP, spectrum emission template, transmit on/off, CCDF and other power measurement; Support multiple bandwidth and multiple TM.
4082-S46U	5G NR Uplink signal measurement	Support 5G NR UPLink signal demodulation, EVM, spectrum flatness, time alignment error; Support ACP, spectrum emission template, transmit on/off, CCDF and other power measurement; Support multiple bandwidth and multiple TM.

- Warranty and Calibration Services

No.	Name	Functions
4082B-EWT1	Extended warranty for 1 year	Beyond the warranty period, the warranty is extended for 1 year, and the two-year extended warranty is optional for 2 items, and so on
4082D-EWT1	Extended warranty for 1 year	Beyond the warranty period, the warranty is extended for 1 year, and the two-year extended warranty is optional for 2 items, and so on
4082E-EWT1	Extended warranty for 1 year	Beyond the warranty period, the warranty is extended for 1 year, and the two-year extended warranty is optional for 2 items, and so on
4082F-EWT1	Extended warranty for 1 year	Beyond the warranty period, the warranty is extended for 1 year, and the two-year extended warranty is optional for 2 items, and so on
4082H-EWT1	Extended warranty for 1 year	Beyond the warranty period, the warranty is extended for 1 year, and the two-year extended warranty is optional for 2 items, and so on
4082L-EWT1	Extended warranty for 1 year	Beyond the warranty period, the warranty is extended for 1 year, and the two-year extended warranty is optional for 2 items, and so on
4082N-EWT1	Extended warranty for 1 year	Beyond the warranty period, the warranty is extended for 1 year, and the two-year extended warranty is optional for 2 items, and so on
4082P-EWT1	Extended warranty for 1 year	Beyond the warranty period, the warranty is extended for 1 year, and the two-year extended warranty is optional for 2 items, and so on
4082B-JL	Professional calibration services	Provide metrological calibration services and provide metrological reports
4082D-JL	Professional calibration	Provide metrological calibration services and provide metrological

	services	reports
4082E-JL	Professional calibration services	Provide metrological calibration services and provide metrological reports
4082F-JL	Professional calibration services	Provide metrological calibration services and provide metrological reports
4082H-JL	Professional calibration services	Provide metrological calibration services and provide metrological reports
4082L-JL	Professional calibration services	Provide metrological calibration services and provide metrological reports
4082N-JC	Verification services	Provide test report
4082P-JC	Verification services	Provide test report

● USB Power Sensor Option(Requires 4082-S01 option):

Model	Frequency Range
87230 USB CW Power Sensor	9kHz ~ 6GHz Power Sensor
87231 USB CW Power Sensor	10MHz ~ 18GHz Power Sensor
87232 USB CW Power Sensor	50MHz ~ 26.5GHz Power Sensor
87233 USB CW Power Sensor	50MHz ~ 40GHz Power Sensor
87235C USB Average Power Sensor	10MHz ~ 8GHz Power Sensor
87235D USB Average Power Sensor	10MHz ~ 18GHz Power Sensor
87235F USB Average Power Sensor	10MHz ~ 33GHz Power Sensor
87235FA USB Average Power Sensor	10MHz ~ 40GHz Power Sensor
87235H USB Average Power Sensor	10MHz ~ 50GHz Power Sensor

- Spectrum Analyzer Extender Option(Requires 4082-H40 option):

Model	Frequency Range
82407NA Spectrum Analyzer Extender	50GHz ~ 75GHz
82407NC Spectrum Analyzer Extender	60GHz ~ 90GHz
82407PA Spectrum Analyzer Extender	75GHz ~ 110GHz
82407QA Spectrum Analyzer Extender	90GHz ~ 140GHz
82407QB Spectrum Analyzer Extender	110GHz ~ 170GHz
82407RA Spectrum Analyzer Extender	140GHz ~ 220GHz
82407SA Spectrum Analyzer Extender	170GHz ~ 260GHz
82407S Spectrum Analyzer Extender	220GHz ~ 325GHz
82407TA Spectrum Analyzer Extender	260GHz ~ 400GHz
82407R Spectrum Analyzer Extender	325GHz ~ 500GHz
82407U Spectrum Analyzer Extender	500GHz ~ 750GHz

- Noise Source Option(Requires 4082-H48 and 4082-H43 option):

Model	Frequency Range
16603DB Noise Source	10MHz ~ 18GHz
16603EB Noise Source	10MHz ~ 26.5GHz
16603FB Noise Source	10MHz ~ 40GHz
16603HB Noise Source	10MHz ~ 50GHz
16604DB Smart Noise Source	10MHz ~ 18GHz
16604EB Smart Noise Source	10MHz ~ 26.5GHz
16604FB Smart Noise Source	10MHz ~ 40GHz
16604HB Smart Noise Source	10MHz ~ 50GHz