CellAdvisor™ EMF Analyzer

Mobile service providers must continuously perform radiation measurements to ensure compliance as well as the personal safety of employees and customers. CellAdvisor's EMF Analyzer performs simple and accurate radiation and emissions measurements.

The evolution of cellular networks and the proliferation of transmitters are significantly increasing human exposure to electromagnetic fields (EMF).

Viavi's CellAdvisor has been adopted by major mobile operators due to its comprehensive RAN measurement capabilities. CellAdvisor can measure the operation and performance of cell sites as well as the radiofrequency (RF) environment, including interference and EMF analysis.

CellAdvisor's EMF Analyzer detects RF field strength and EMF using an isotropic antenna. It can perform simple and accurate radiation emissions measurements on site with a clear PASS/FAIL indication based on the radiation levels as compared to the permissible limits.

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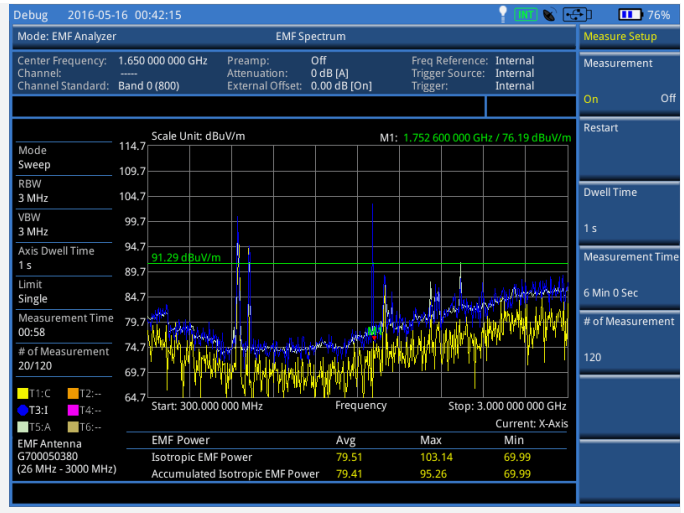
Benefits

- Compliant with the Independent Commission of Non-Ionizing Radiation Protection (ICNIRP)
- Supports 3GPP standard 36.113 Base Station and Repeater Electromagnetic compatibility
- Simple PASS/FAIL and alarm setting to indicate excess radiation



Features

- Accumulated EMF Power at configurable measurement intervals
- Long-term spectrum recording with geolocation and timing information
- EMF spectrum replaying for post-processing analysis
- Automatic report generation

Specification

Parameter	
Antenna Type	Isotropic E Field
Frequency range	26 MHz to 3 GHz
Frequency correction factors	Stored in EEPROM
Typical 3D Isotropy	< ± 0.6 dB (26 MHz to 2 GHz) 900 MHz: < ± 0.50 dB 1800 MHz: < ± 0.55 dB < ± 1 dB (2 GHz to 3 GHz)
Dynamic range	1mV - 300 V/m (26 MHz - 500 MHz) 0.2mV/m - 200V/m (500 MHz to 3 GHz) Up to 1000 V/m for frequencies < 110 MHz
Maximum field strength	> 800 V/m below 100 Mhz, 400 V/m (500MHz to 3 GHz)
RF connector	N-Connector, 50 Ω, male
Operating temperature range	-10 °C to +50 °C
Dimensions	420 mm length and 120 mm antenna head diameter
Weight	700 g
Recommended calibration interval	2 years

Ordering Information

Description	Part Number
EMF Analyzer for CellAdvisor	Opt.050
Isotropic Antenna (26 MHz – 3 GHz)	G700050380

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