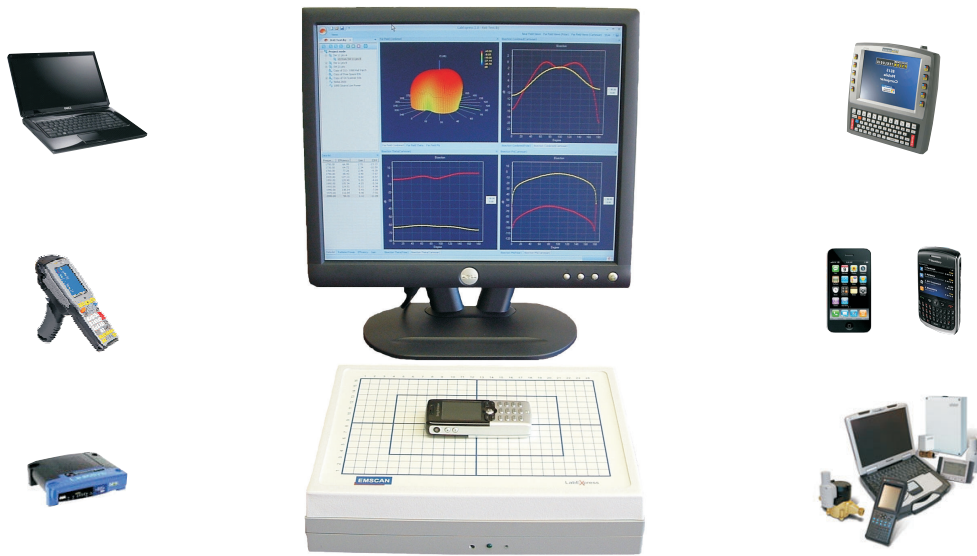


Paradigm Shift in Antenna Pattern Measurements



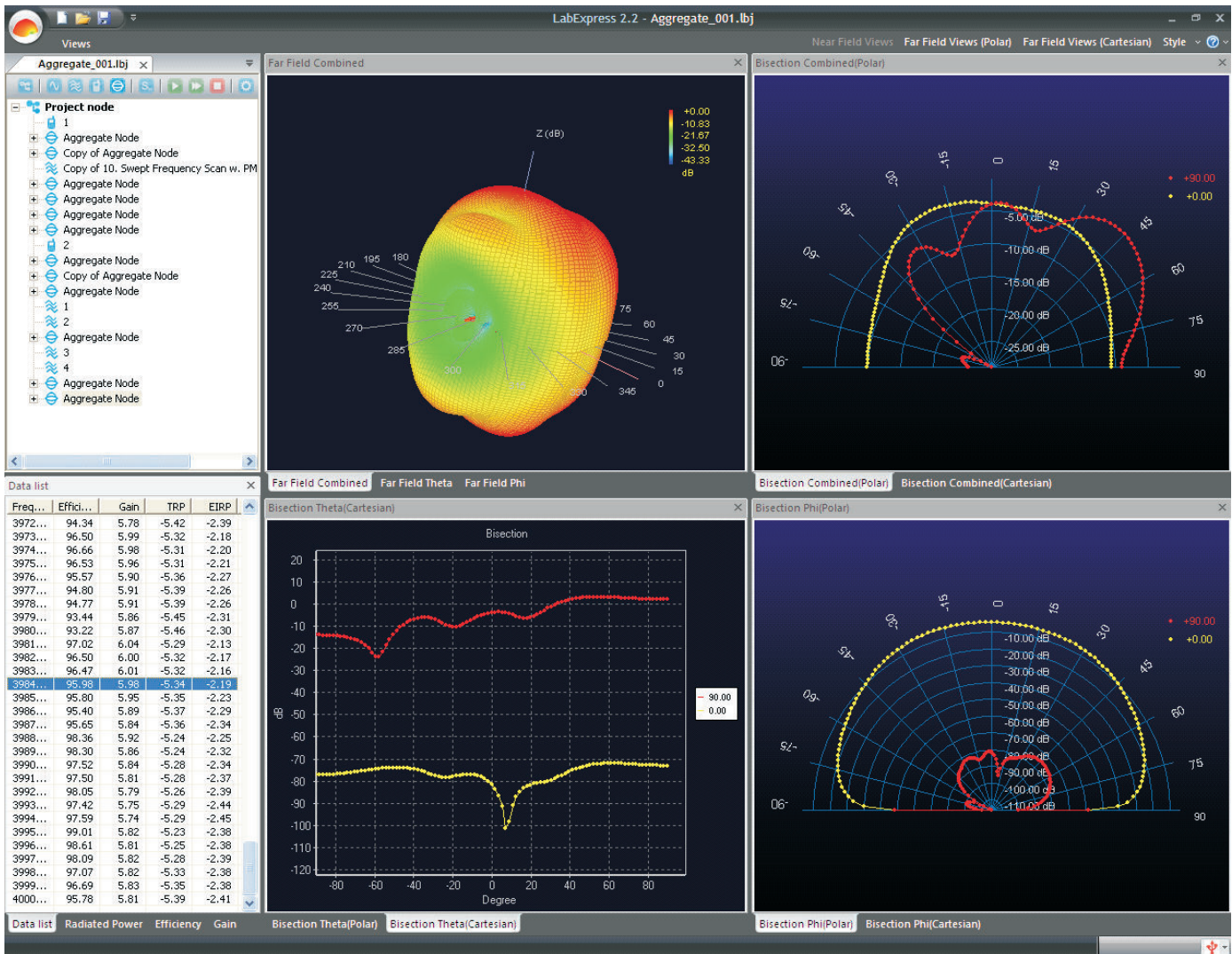
Rapidly and accurately measure:

- 2D and 3D near field patterns (amplitude, phase)
- Broad frequency coverage: 700 MHz - 6 GHz *(down to 300 MHz without FF patterns)
- Polarization diversity
- EIRP, radiated power
- Far field patterns and bi-sections
- Designate Golden Samples and make comparisons

Optimally integrate antennas into complex structures

Integrate with NA and BSE for rapid measurements

Features



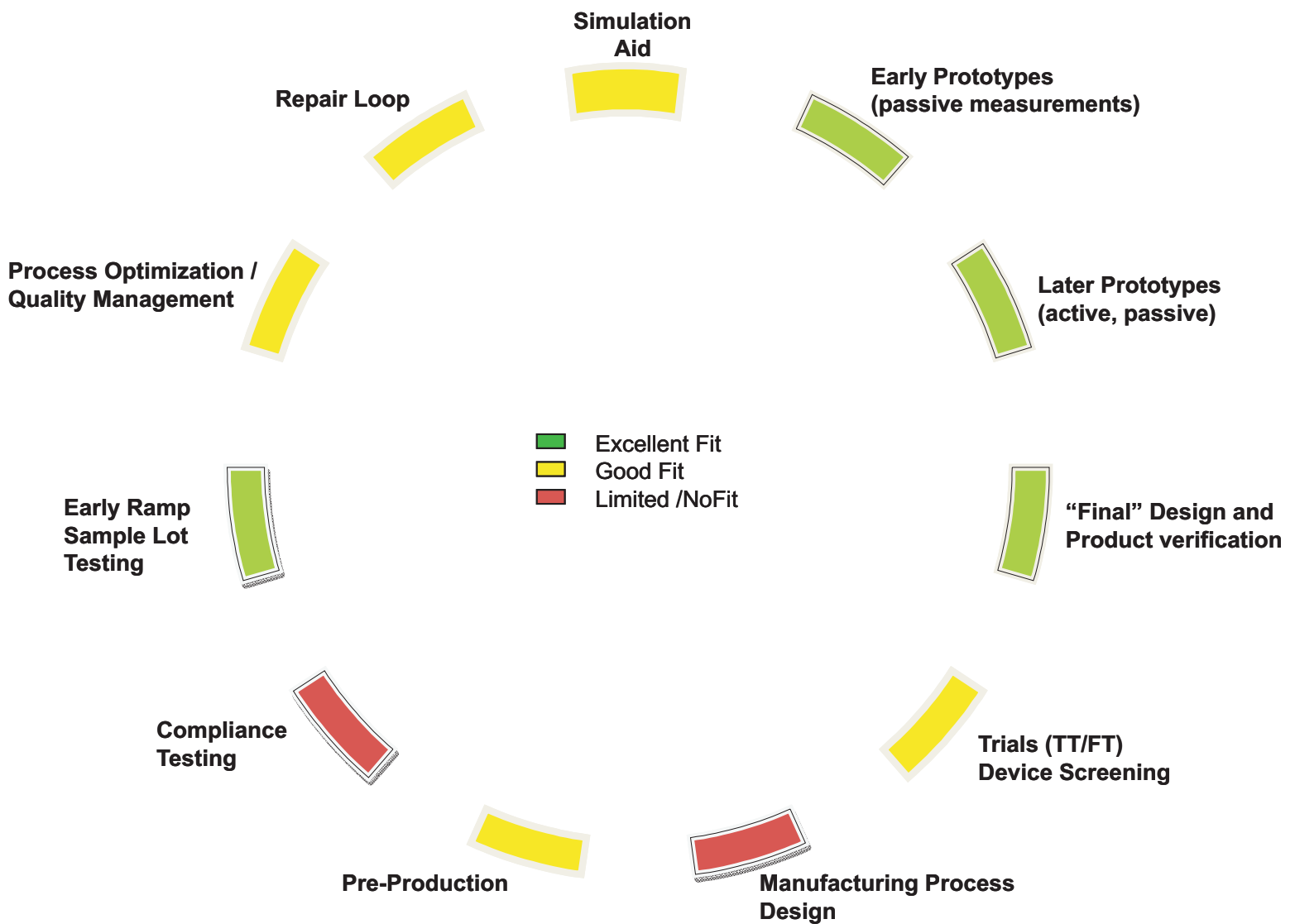
Optimized for designer use in a lab environment

- Ease of Use (unpack and use in 30 min.)
- Results highlight radiator behavior & unwanted coupling mechanisms
- Optimize embedded antenna performance
- Tune/optimize complex antenna structures e.g. MIMO

Very Competitive vs Traditional solutions (Chambers)

- Measurements take from 1% to 10% of the time
- Purchase price typically : < 30%
- Est. recurring cost of ownership savings vs competition of > \$100k / year

Application Segments - Product Cycle Fit



Solution Attributes

Specification

High Accuracy Radiated Power Measurements	EIRP Typically ± 1.5 dB
High Measurement Repeatability	± 0.2 dB (temp, time, DUT position offsets)
Captures other important parameters	NF Distributions (Amp, Phase), FF Patterns, FF Bisections, Radiated Power, Measure S11, Calculate Gain and Efficiency
Broad Frequency Coverage	700 MHz to 6.0 GHz (down to 300 MHz without FF patterns)
Fast Measurement Cycle Time	< 2 sec for a complete measurement test cycle
Accommodates a variety of modulation formats	CW, CDMA, GSM / Edge, B/T, 802.11, UMTS variants
Scanner Size	~30 x 23 x 8 cm
Golden sample store and comparison capabilities	Sample lot testing rules and comparisons Production test rules and comparisons
Unshielded, side by side testing	Yes, with coordination of channels and PCL levels
Usable for a variety of wireless devices	Cellular, WiFi, WiMax, GPS, Custom applications
Optimize MIMO antenna designs	Immediate feedback: phased array designs

Applications

- Embedded Antenna and Phased Array Designs
- 3G and 4G Cellular Mobile Devices Design and Production Test
- Wi-Fi and Wi-Max (MIMO) Devices Design and Production Test
- Custom small form factor designs
- University Teaching Tool

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 Aerohive

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 **HARRIS**

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#1, 1715-27 Avenue NE
Calgary, AB T2E 7E1
Canada

Tel: 403-291 0313
Fax: 403-250 8786

www.emscan.com