



EMC Test for R&D

Agilent Technologies
and Eretec Inc.

Reduce the cost of identifying radiating components with EMC scanning

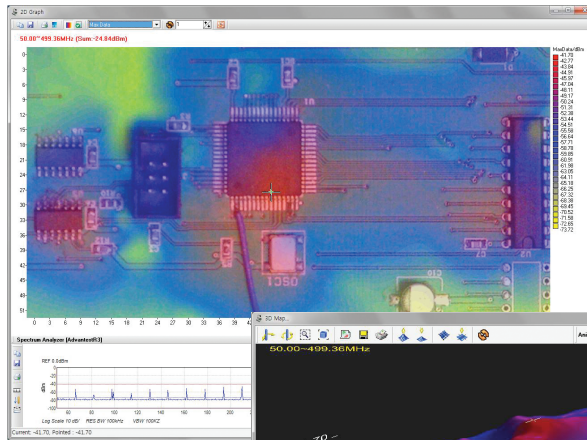


Electromagnetic compatibility (EMC) testing can be costly and time consuming especially when using anechoic chambers and positioning systems. To achieve successful EMC testing, there is a requirement to identify suspect components as early as possible. By using an EMC scanner R&D engineers can identify

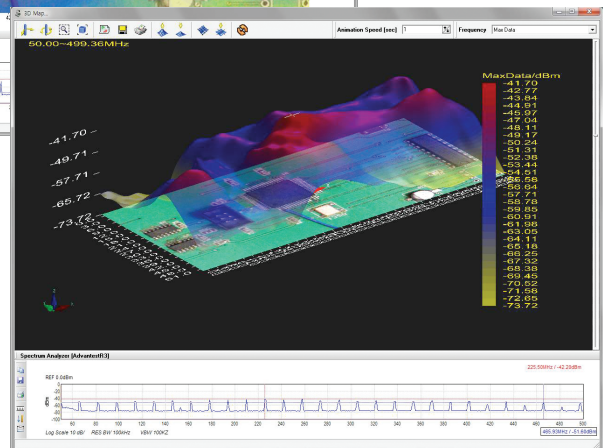
sources of radiation and take the actions necessary to correct these before full EMC testing takes place, saving time and reducing cost.

The RCE EMC scanner from Eretec combines a camera mounted above an X-Y positioning table with E- and H-field probes and a spectrum ana-

- *EMC test solution for R&D*
- *EMC scanner identifies sources of radiation*
- *Allows early correction of suspect components and traces*
- *Combines camera, positioning table, probes and spectrum analyzer*
- *Uses Agilent spectrum analyzers including ESA and PSA*
- *Two sizes available*
- *Correct your designs before the cost and time of full EMC testing*



3D view of radiation from UUT



EMC Scanning for R&D

lyzer from Agilent Technologies. The camera provides a high definition image of the unit-under-test (UUT), while the probes and spectrum analyzer measure its radiated energy. The system supports a measurement frequency range of 100 kHz to 3 GHz and can use a variety of Agilent spectrum analyzers including the Agilent ESA and PSA families.

The measurement results are presented as a two- or three-dimensional view overlaid on the actual image of the board. This provides a visual representation of the UUT that highlights clearly the sources of radiation. By examining the visual representation the R&D engineer can identify any suspect

components or traces and take the appropriate action to correct these. The results of the measurements can be exported to a spreadsheet for further analysis.

The RCE system is available as two variants. The RCE-25 provides a total scan area of up to 250 mm x 175 mm x 80 mm, while the RCE-40 supports an area of 400 mm x 280 mm x 100 mm. Both variants provide a minimum scan step of 0.1 mm.

By using the RCE EMC scanner from Eretec in conjunction with a spectrum analyzer from Agilent you can identify suspect components in your design before incurring the cost and time of full EMC testing.

System Components

Agilent Technologies

E440xB	ESA Series spectrum analyzers
E444xA	PSA Series spectrum analyzers

Eretec Inc.

RCE-25	EMC Scanner with controller
RCE-40	EMC Scanner with controller

To learn how this solution can address your specific needs please contact Agilent's solutions partner, Eretec Inc.

www.agilent.com/find/eretec



Agilent Solutions Partner Program

Agilent and its Solutions Partners work together to help customers meet their unique challenges, in design, manufacturing, installation or support. To learn more about the program, our partners and solutions go to www.agilent.com/find/solutionspartner

Eretec Inc. supplies test facilities, measurement systems and software worldwide including EMC measurement chambers, antenna (cell phone, radar, aircraft, military, etc.) test chambers, EMC/antenna/transient measurement systems and software, etc.

www.eretec.com

For information on Agilent Technologies' products, applications and services, go to www.agilent.com

Product specifications and descriptions in this document subject to change without notice.

© Agilent Technologies, Inc. 2010 – 2012
Printed in USA, February 22, 2012
5990-6314EN



Agilent Technologies