



VARISCITE LTD.

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VAR-SOM-OM44

EMC Radiation test

Rev: 1.0

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## Document Revision History

Revision	Date	Notes
1.0	1/3/2012	Initial

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# 1 Introduction

This Document presents the VAR-SOM-OM44 EMC radiation tests, held at the "THE STANDARDS INSTITUTION OF ISRAEL" EMC test labs ([http://www.sii.org.il/896-en/SII\\_EN.aspx](http://www.sii.org.il/896-en/SII_EN.aspx)).

## 2 Test Set up

Test setup:

- VAR-SOM-OM44 Rev 1.1
- VAR-OM44CustomBoard Rev 1.0 carrier board
- Power: 12V linear power supply.

The following VAR-SOM-OM44 features were enabled:

1. 1.5Ghz x2 dual core @100% utilization (Dhrystone benchmark)
2. 24 Bit LCD controller
3. Wi-Fi Module

The following VAR-OM44CustomBoard features were enabled:

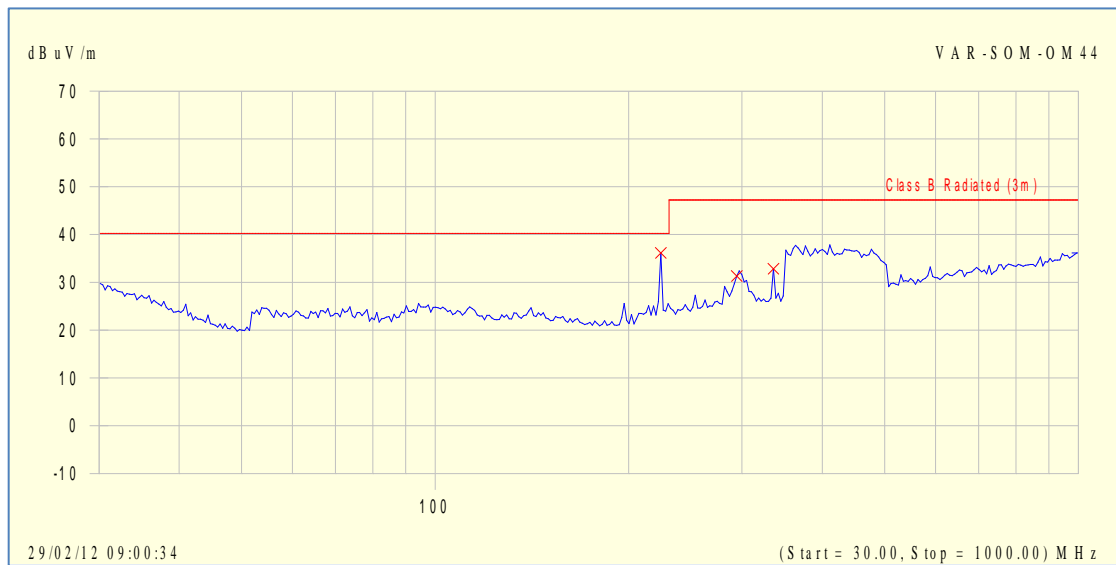
1. 3.3V & 5V DC-DC power supply
2. LVDS Display transmitter.
3. USB HUB

### 3 Results

#### 3.1 Radiation Spectrum

The blue line represents the vertical & horizontal polarity radiation frequency measurements.

The red line is the FCC Class B standard limits



#### 3.2 Peak Frequencies measurements

Frequency MHz	Peak dBuV/m	QP Name Comment dBuV/m	Avg dBuV/m	Limit dB	Line dB	QP-QP Limit Trace
223.341	36.4		40.5			
293.084	31.6		47.5			
334.272	33.1		47.5			

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