



VARISCITE LTD.

VAR-SOM-AM33_V2

EMC Radiation test

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Document Revision History

Revision	Date	Notes
1.0	04/Jan/2015	Initial

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1 Introduction

This Document presents the VAR-SOM-AM33_V2 EMC radiation test, held at the “THE STANDARDS INSTITUTION OF ISRAEL” EMC test labs (http://www.sii.org.il/896-en/SII_EN.aspx).

2 Test Set up

Test setup includes VAR-SOM-AM33_V2 module assembled on a VAR-AM33CustomBoard Rev 1.21 carrier board, powered by 12V linear power supply.

The following VAR-SOM-AM33 features were enabled:

1. 600 Mhz @ 100% utilization
2. WLAN and BT controller
3. 16 Bit LCD controller
4. Ethernet controller
5. Audio codec

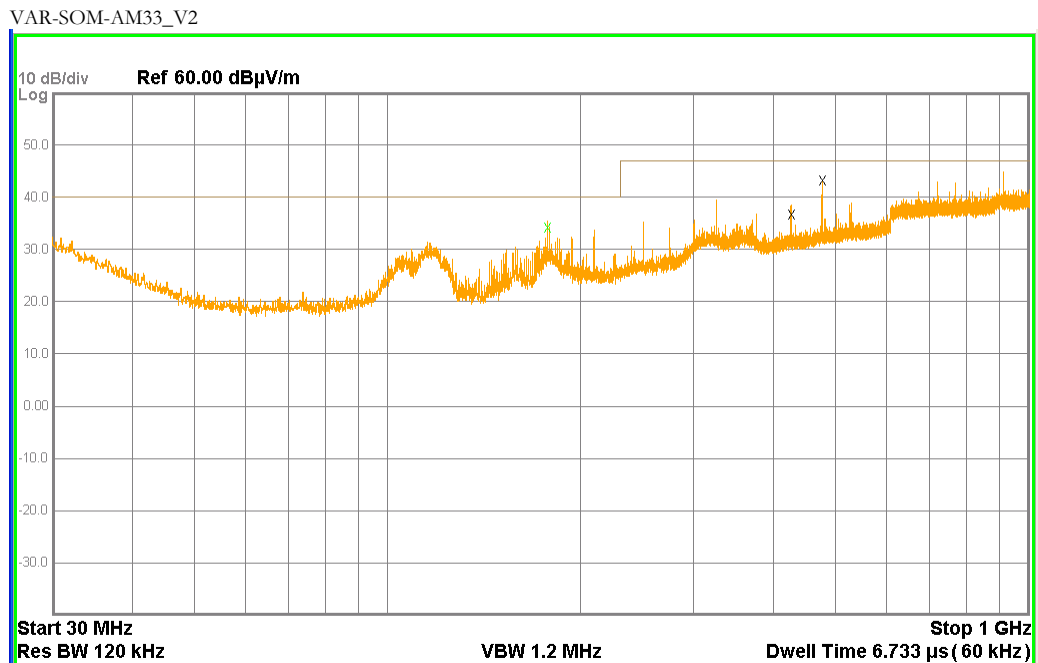
The following VAR-AM33CustomBoard features were enabled:

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

3 Results

3.1 Radiation Spectrum

The orange graph represents Vertical & Horizontal polarity radiation frequency measurements. The bold orange line is the EN55022 Class B standard limits



3.2 Peak Frequency Measurement

Frequency, Mhz	Peak, dBμV/m	QP, dBμV/m	QP Limit, dBμV/m	Delta QP (dB)
177.25	36.203	33.098	40.00	-6.902
424.97	40.006	36.273	47.00	-10.727
475.00	44.555	41.229	47.00	-5.771

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