

### VARISCITE LTD.

## **DART-MX6**

# **EMC** Radiation test

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# Document Revision History

Revision	Date	Notes
1.0	06/Jan/2016	Initial

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# 1 Introduction

This Document presents the DART-MX6 EMC radiation test, held at the "THE STANDARDS INSTITUTION OF ISRAEL" EMC test labs (<a href="http://www.sii.org.il/896-en/SII\_EN.aspx">http://www.sii.org.il/896-en/SII\_EN.aspx</a>).

# 2 Test Set up

Test setup includes DART-MX6 module assembled on a VAR-DT6CustomBoard Rev 1.1 carrier board, powered by 5V linear power supply.

The following DART-MX6 features were enabled:

- 1. 800 Mhz Quad core
- 2. eMMC
- 3. WLAN and BT controller
- 4. 24 Bit LCD controller
- 5. Audio codec

The following VAR-DT6CustomBoard features were enabled:

1. 3.3V DC-DC power supply

### 3 Results

### 3.1 Radiation Spectrum

The graph represents Vertical & Horizontal polarity radiation frequency measurements with respect to 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)
127.224	33.9	27.7	40.0	-12.3
157.515	35.3	32.4	40.0	-7.6
192.002	34.8	34.6	40.0	-5.4
288.000	37.8	37.3	47.0	-9.7

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DART-MX6 EMC RADIATION TEST

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