



VARISCITE LTD.

DART-MX8M

EMC Radiation test

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Document Revision History

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1.0	12/09/2019	Initial

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1 Introduction

This Document presents the DART-MX8M EMC radiation test, held at the “THE STANDARDS INSTITUTION OF ISRAEL” EMC test labs (http://www.sii.org.il/896-en/SII_EN.aspx).

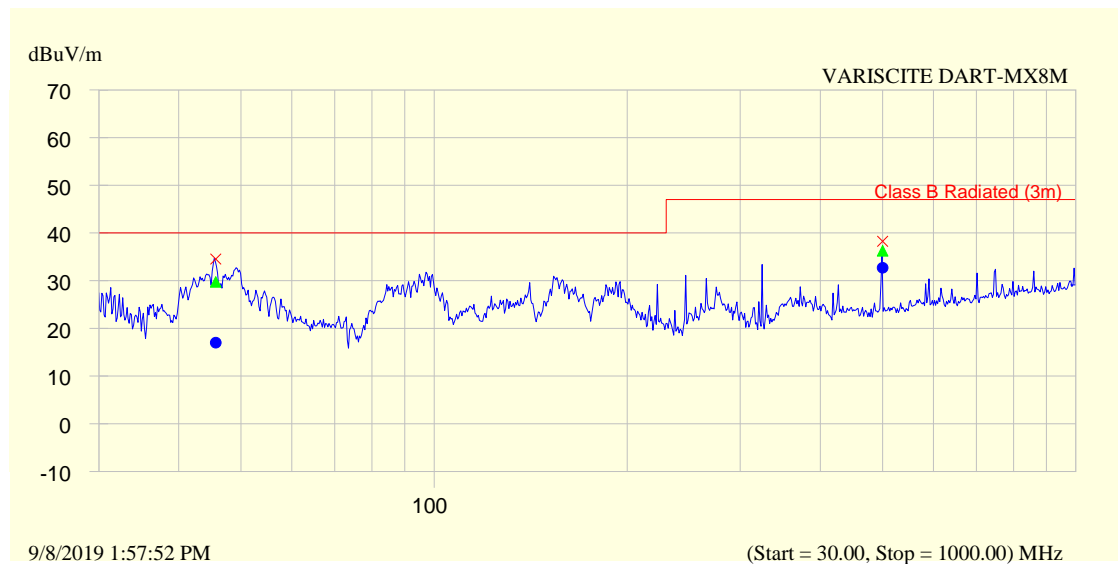
2 Test Set up

Test setup included a stock DART-MX8M Rev 1.2 module assembled on a VAR-DT8CustomBoard carrier board Rev 1.4, powered by 5V linear power supply. All SOM features were enabled, Ethernet port of carrier board was connected to Ethernet switch. A script running continuous scan for WLAN access points and eMMC writes was executed.

3 Results

3.1 Radiation Spectrum

The blue graph represents Vertical & Horizontal polarity radiation frequency measurements. The red horizontal line is the EN55022 Class B standard limits



3.2 Peak Frequency Measurement

Frequency, Mhz	Peak, dBμV/m	QP, dBμV/m	Avg dBuV/m	QP Limit, dBμV/m	Delta QP (dB)
45.675	34.5	29.7	17.0	40.0	-10.3
500.029	38.2	36.3	32.7	47.0	-10.7

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