## Document Revision History

<table>
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<th>Revision</th>
<th>Date</th>
<th>Notes</th>
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<tr>
<td>1.0</td>
<td>19/05/2016</td>
<td>Initial</td>
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1 Introduction

This Document presents the DART-6UL 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 DART-6UL Rev 1.21 module assembled on a VAR-6ULCustomBoard carrier board Rev 1.21, powered by 5V linear power supply.

The following DART-6UL features were enabled:
1. Single core ARM Cortex A7@ 528 Mhz
2. WLAN and BT controller
3. 24 Bit LCD controller
4. Ethernet controller
5. Audio codec

The following VAR-6ULCustomBoard features were enabled:
1. 3.3V DC-DC power supply
2. LVDS Display transmitter

3 Results

3.1 Radiation Spectrum

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

3.2 Peak Frequency Measurement

<table>
<thead>
<tr>
<th>Frequency, Mhz</th>
<th>Peak, dBµV/m</th>
<th>QP, dBµV/m</th>
<th>QP Limit, dBµV/m</th>
<th>Delta QP (dB)</th>
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<tbody>
<tr>
<td>250.000</td>
<td>36.8</td>
<td>35.4</td>
<td>47.0</td>
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<td>263.819</td>
<td>40.9</td>
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<td>278.067</td>
<td>41.2</td>
<td>33.2</td>
<td>47.0</td>
<td>-13.8</td>
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