

ACB comments	Intel answers
<p>1)The test data does now shows both peak and average measurements. From our analysis of the plots, it appears the antenna gain is factored into the offset. Therefore the limit is still -27 dBm/MHz for SISO modes. The plots show that the data is taking using 100 kHz, but then use a Band Power Function that we assume integrates from the 100 kHz to 1 MHz RBW requirement. The concern is that much of the peak data appears to exceed the -27 dBm. Please see plots placed into a separate file showing the results of concern. Please review.</p>	<p>As per KDB 987594 addendum, the -27dBm/MHz is for average limit which lead to -7dBm/MHz (-27dBm/MHz + 20dB) for peak limit.</p> <ul style="list-style-type: none"> • RMS Limit = -27dBm/MHz • Peak Limit = -7dBm/MHz <div data-bbox="719 383 1358 506" style="border: 1px solid black; padding: 5px;"> <p><u>Attachment</u></p> <p style="text-align: center;">Addendum to Draft</p> <p>1. -27 dBm EIRP OOB is measured RMS which is a deviation from the current 15E rules for 5 GHz bands. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit.</p> </div> <p>All OOB peak detector results are below the -7dBm/MHz peak limit</p>
<p>2)The same concern exists for some of the MIMO results, with the addition that it is uncertain where the 3 dB for the 2 antennas is factored into the data. Many labs would possibly adjust the offset from 5.6 to 8.6 for the 3 dB. However off hand it does not appear where this correction is taking place. Even with the correction – there does appear to be some plots exceeding the requirement as well.</p>	<p>A clarification is described in the test report section B.2.5, see below.</p> <div data-bbox="719 757 1385 819" style="border: 1px solid black; padding: 5px;"> <p>For out of band emission measurements in MIMO mode the emission level of individual output is adjusted by $10 \log(N_{ant}) = 3\text{dB}$ for $N_{ant} = 2$ which is equivalent to compare the individual output emission level to the limit minus 3dB. The same approach is applied for peak and RMS detectors.</p> </div> <p>In our case instead of considering the 3dB correction in the offset of the spectrum analyzer they were applied to Peak and RMS limits:</p> <ul style="list-style-type: none"> • MIMO RMS Limit for individual output= -30dBm/MHz • MIMO Peak Limit for individual output= -10dBm/MHz