

4.4 Out-of-Band Conducted Emissions FCC 15.247(d)

4.4.1 Requirement

In any 100 kHz bandwidths outside the EUT pass-band, the RF power shall be at least 20dB (peak) or 30 dB (average) below that of the maximum in-band 100 kHz emissions.

4.4.2 Procedure

A spectrum analyzer was connected to the antenna port of the transmitter. Analyzer Resolution Bandwidth was set to 100 kHz. For each channel investigated, the in-band and out-of-band emission measurements were performed. The out-of-band emissions were measured from 30 MHz to 25 GHz.

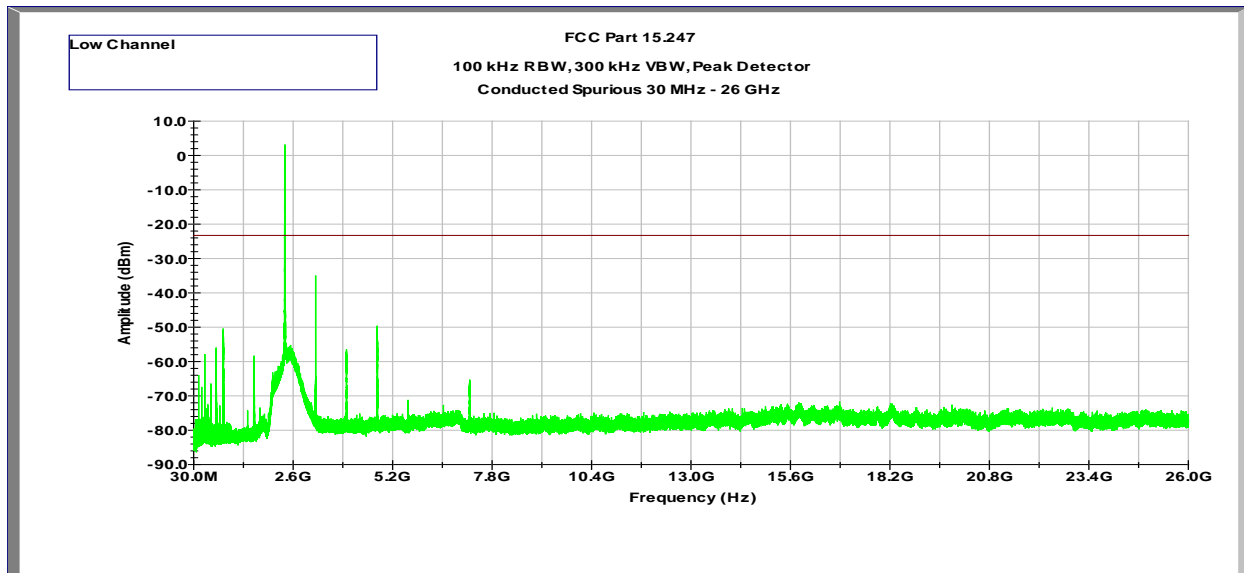
4.4.3 Test Result

Refer to the following plots 4.1 – 4.9 for unwanted conducted emissions. The plot shows -30dB attenuation limit line.

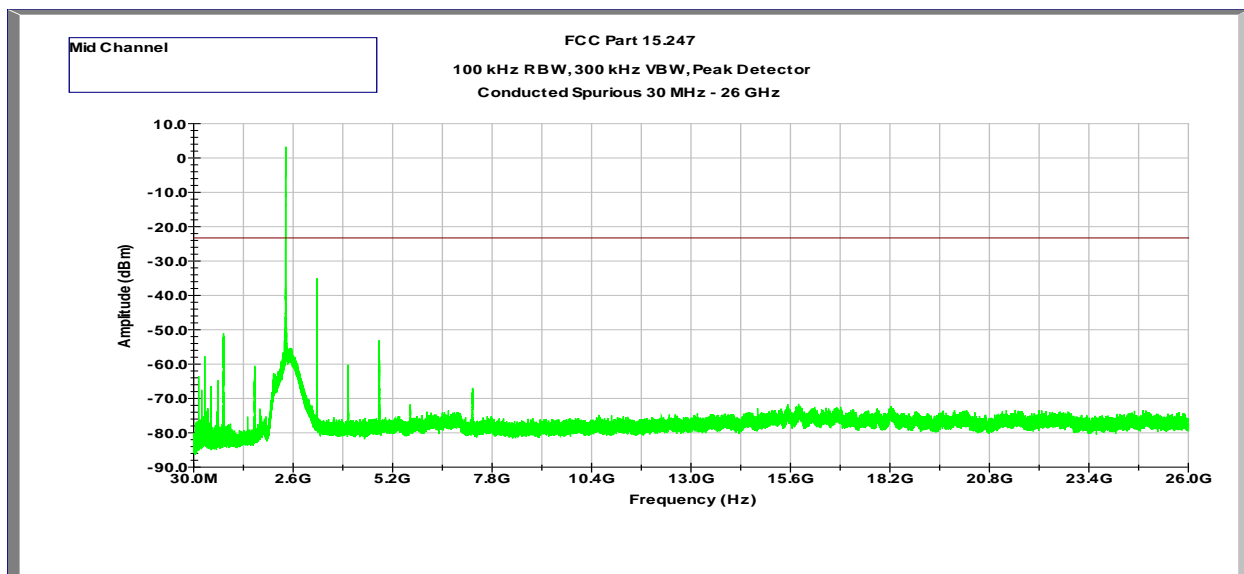
Results	Complies
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Test Date:	October 9 & 19, 2017
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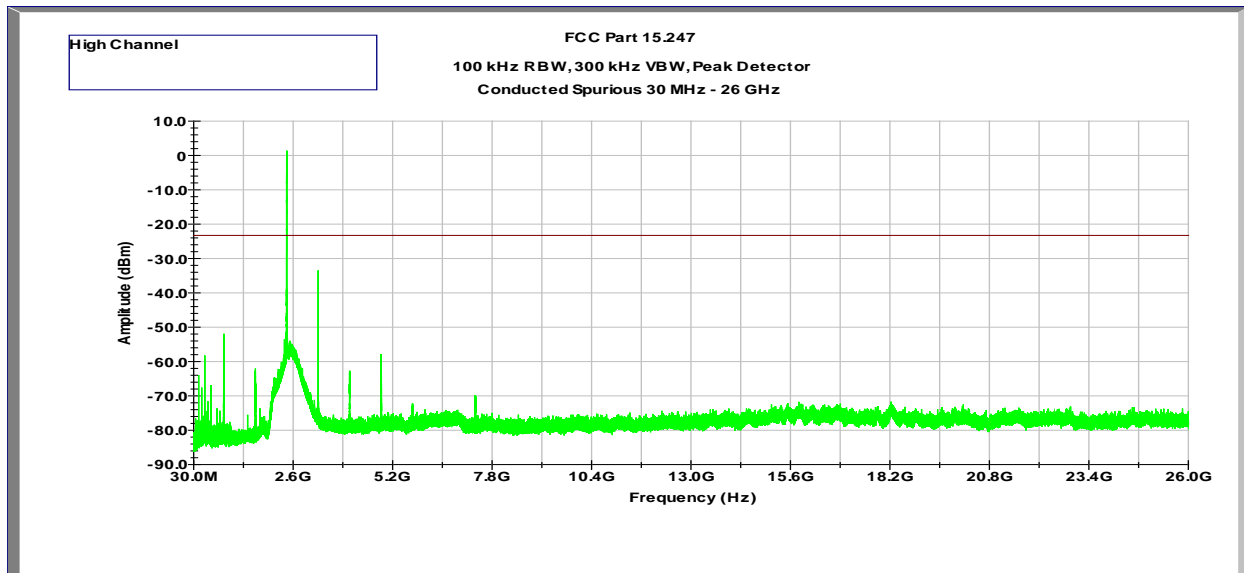
Plot 4.1
Tx @ 2412MHz 802.11b



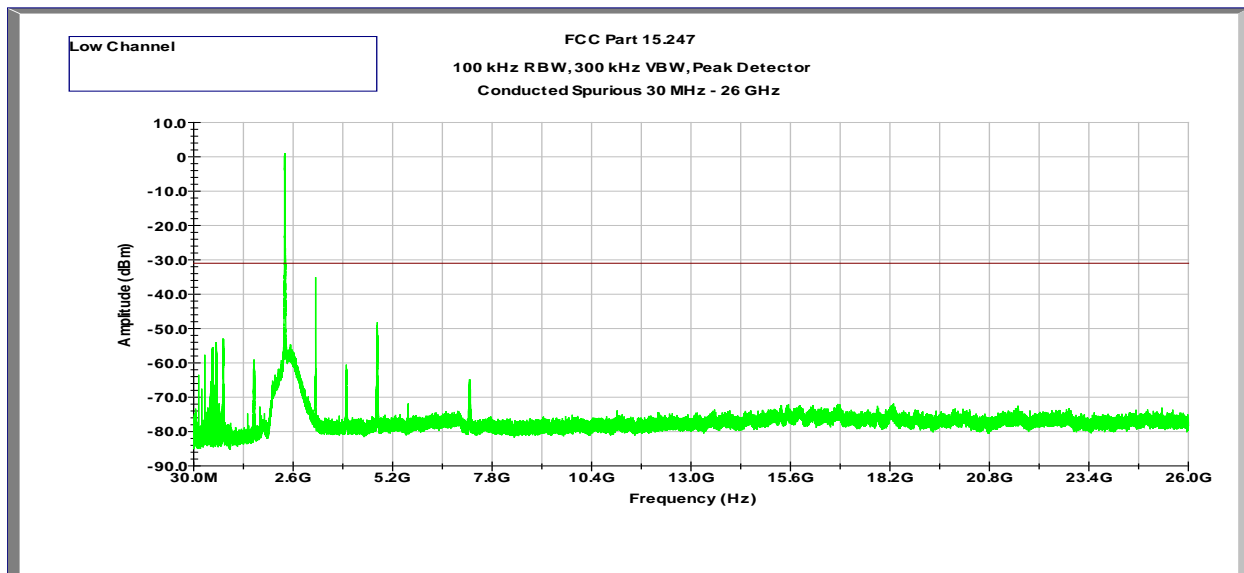
Plot 4.2
Tx @ 2437MHz 802.11b



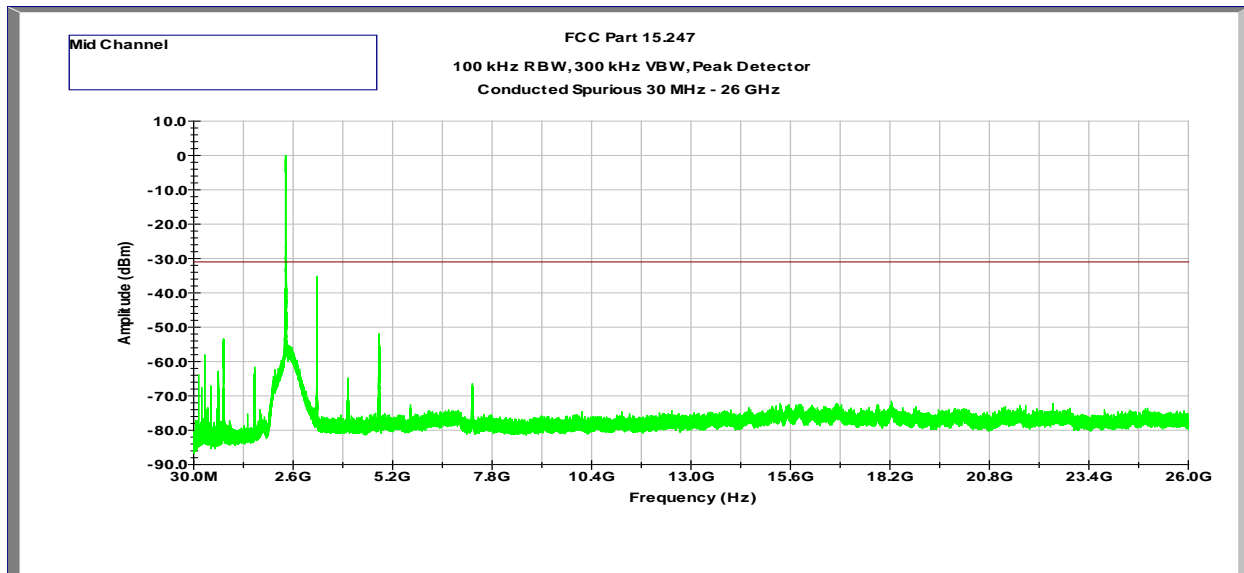
Plot 4.3
Tx @ 2462MHz 802.11b



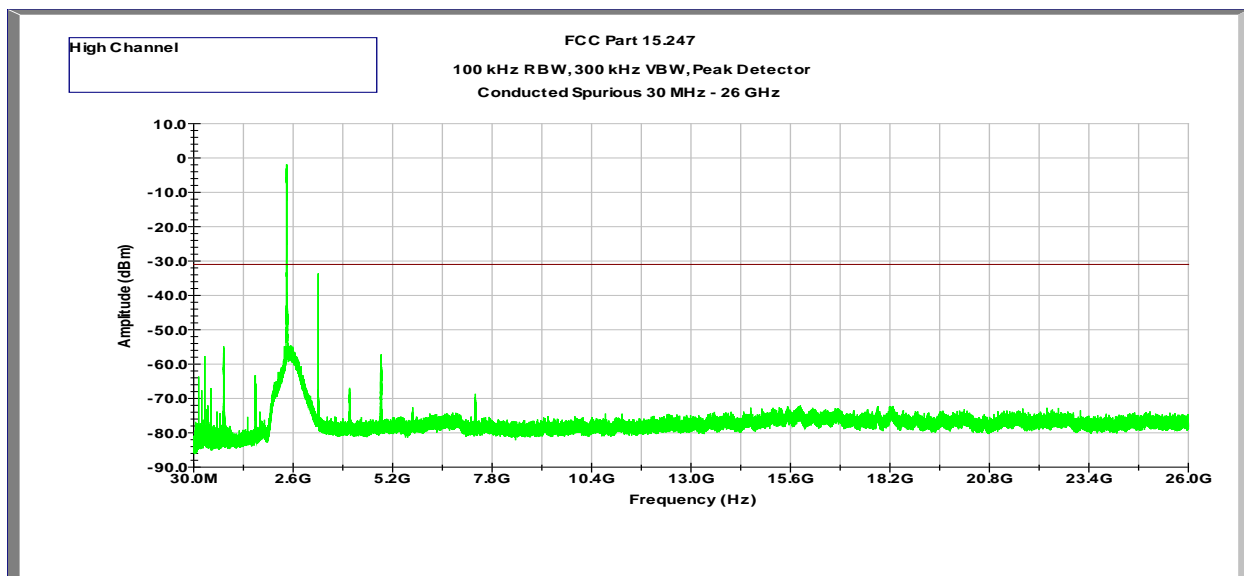
Plot 4.4
Tx @ 2412MHz 802.11g



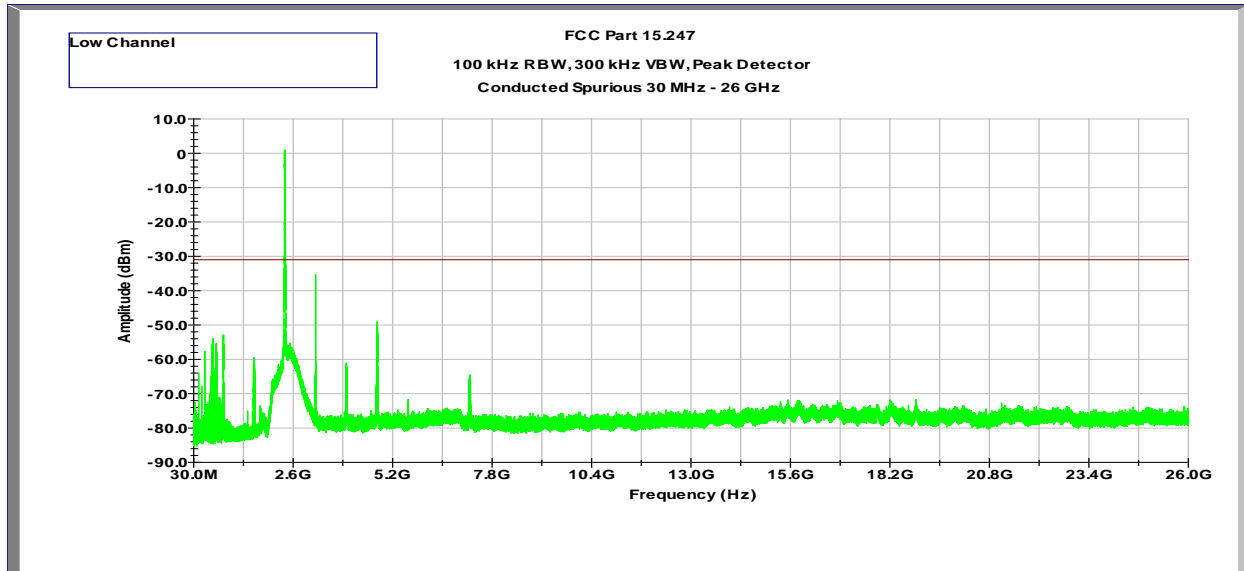
Plot 4.5
Tx @ 2437MHz 802.11g



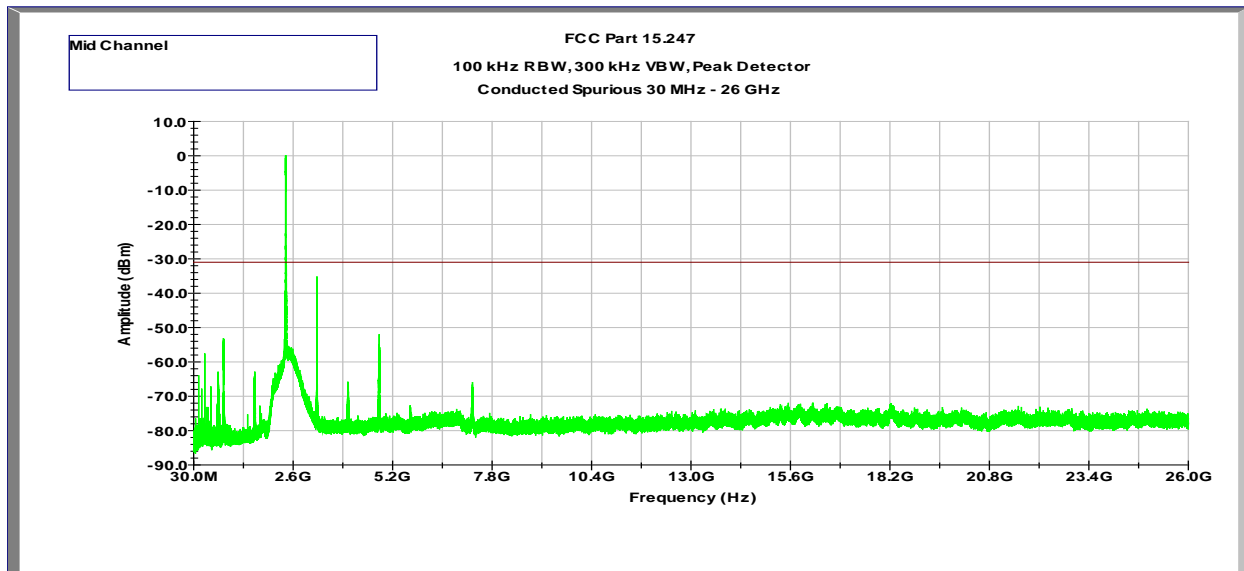
Plot 4.6
Tx @ 2462MHz 802.11g



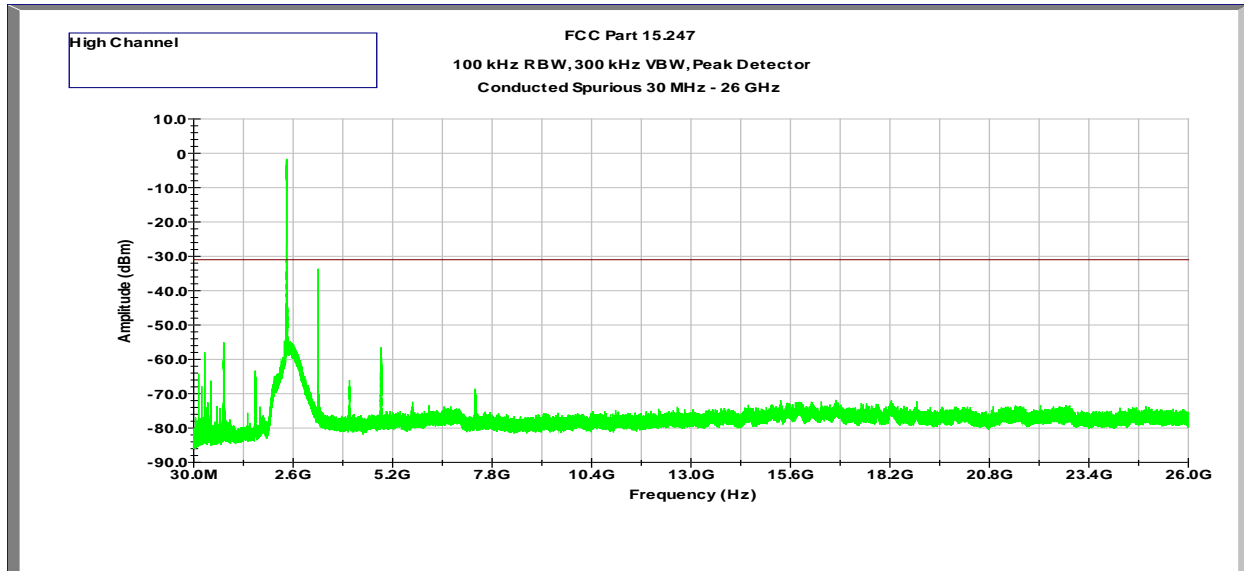
Plot 4.7
Tx @ 2412MHz 802.11n HT20



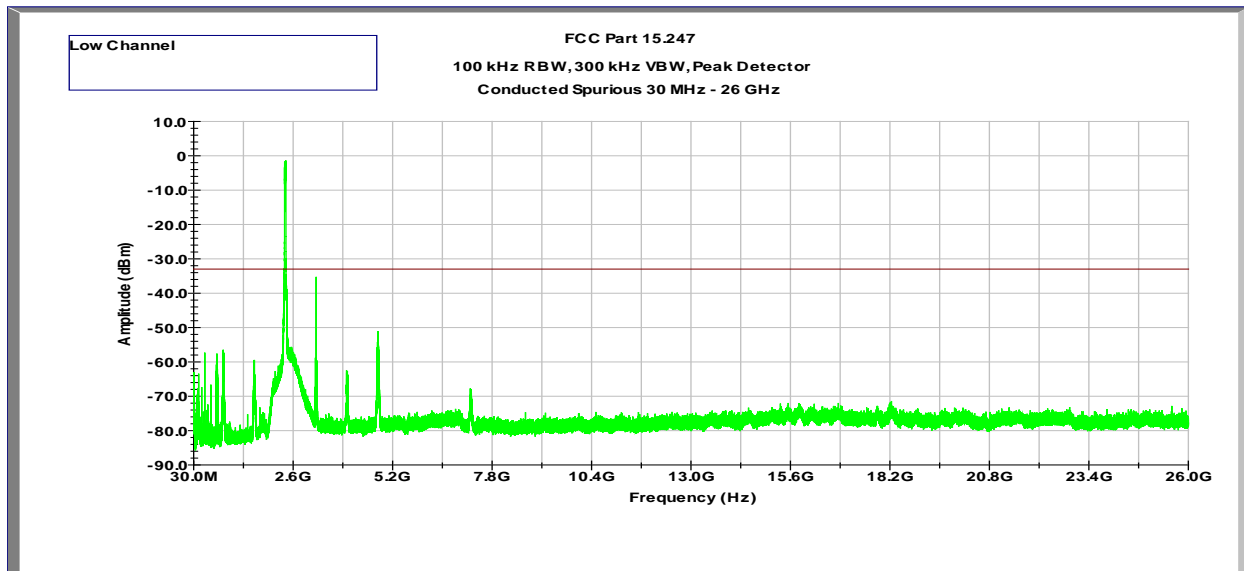
Plot 4.8
Tx @ 2437MHz 802.11n HT20



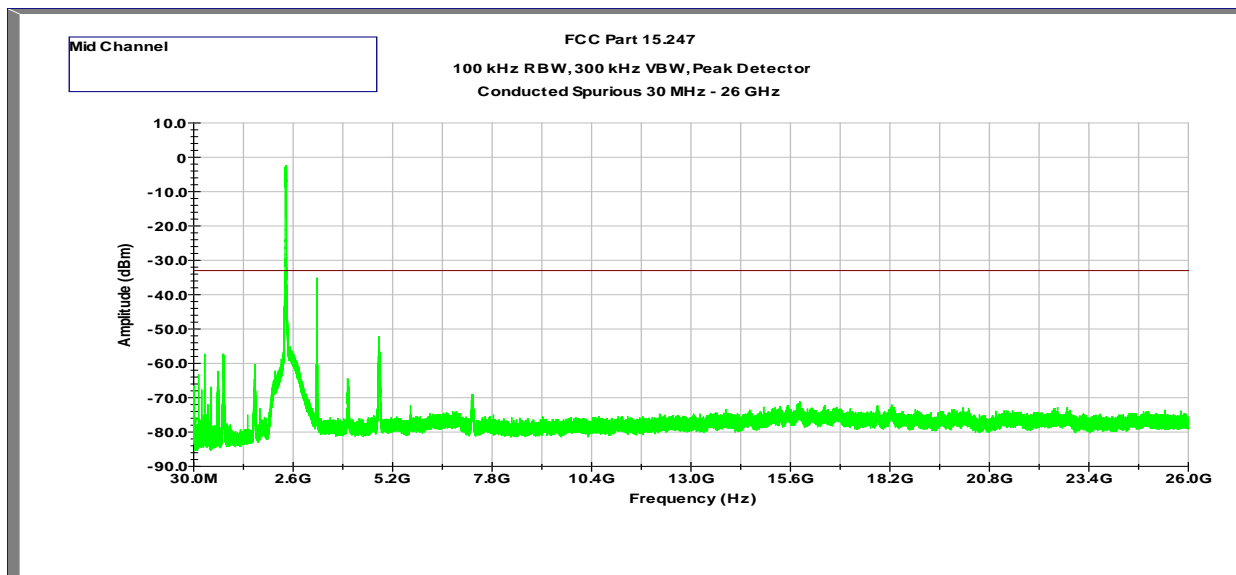
Plot 4.9
Tx @ 2462MHz 802.11n HT20



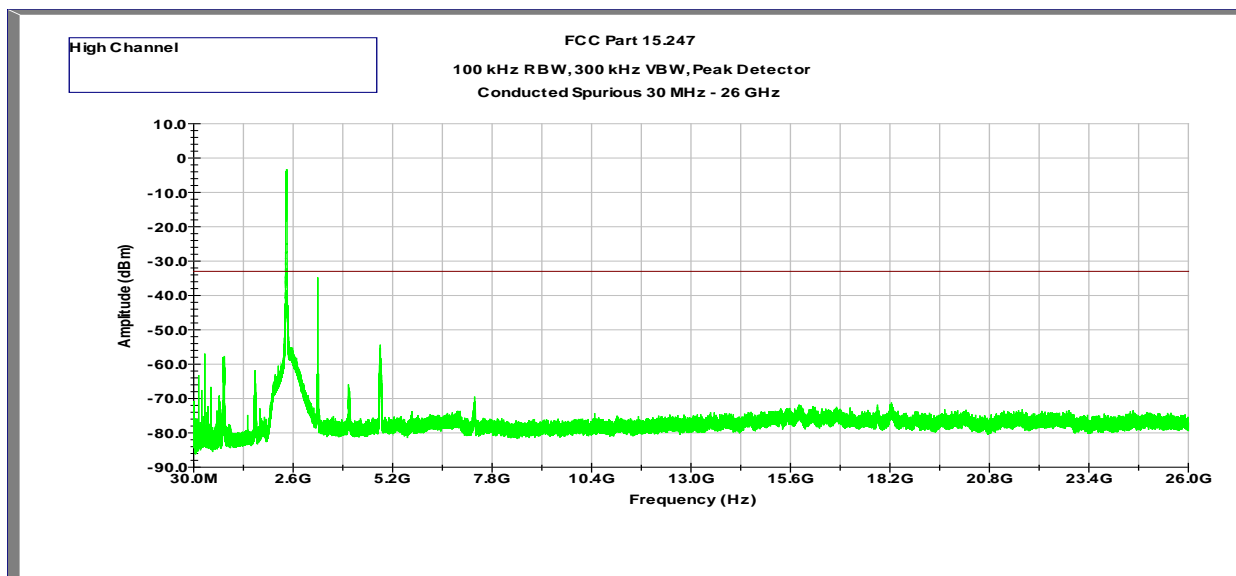
Plot 4.10
Tx @ 2422MHz 802.11n HT40



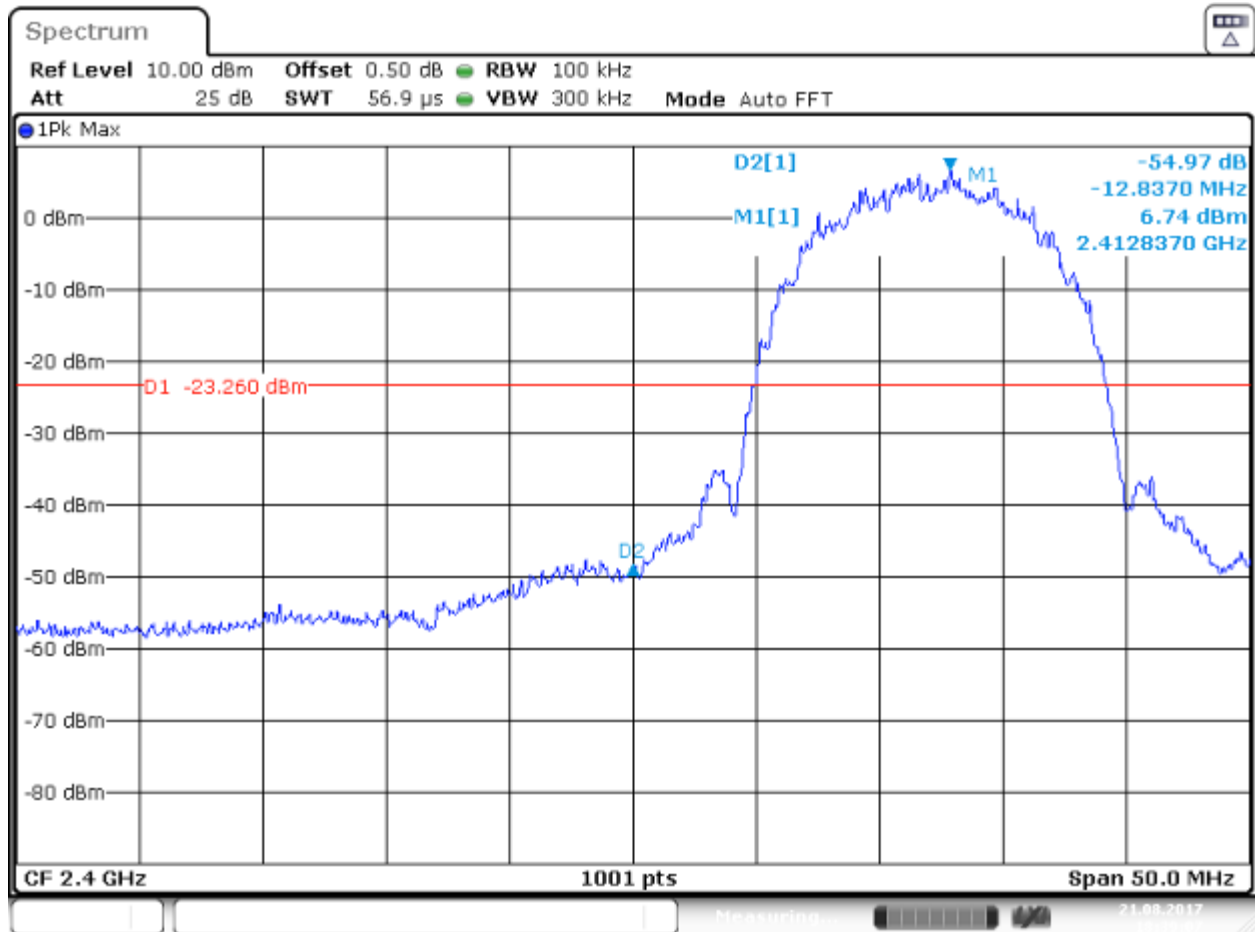
Plot 4.11
Tx @ 2437MHz 802.11n HT40



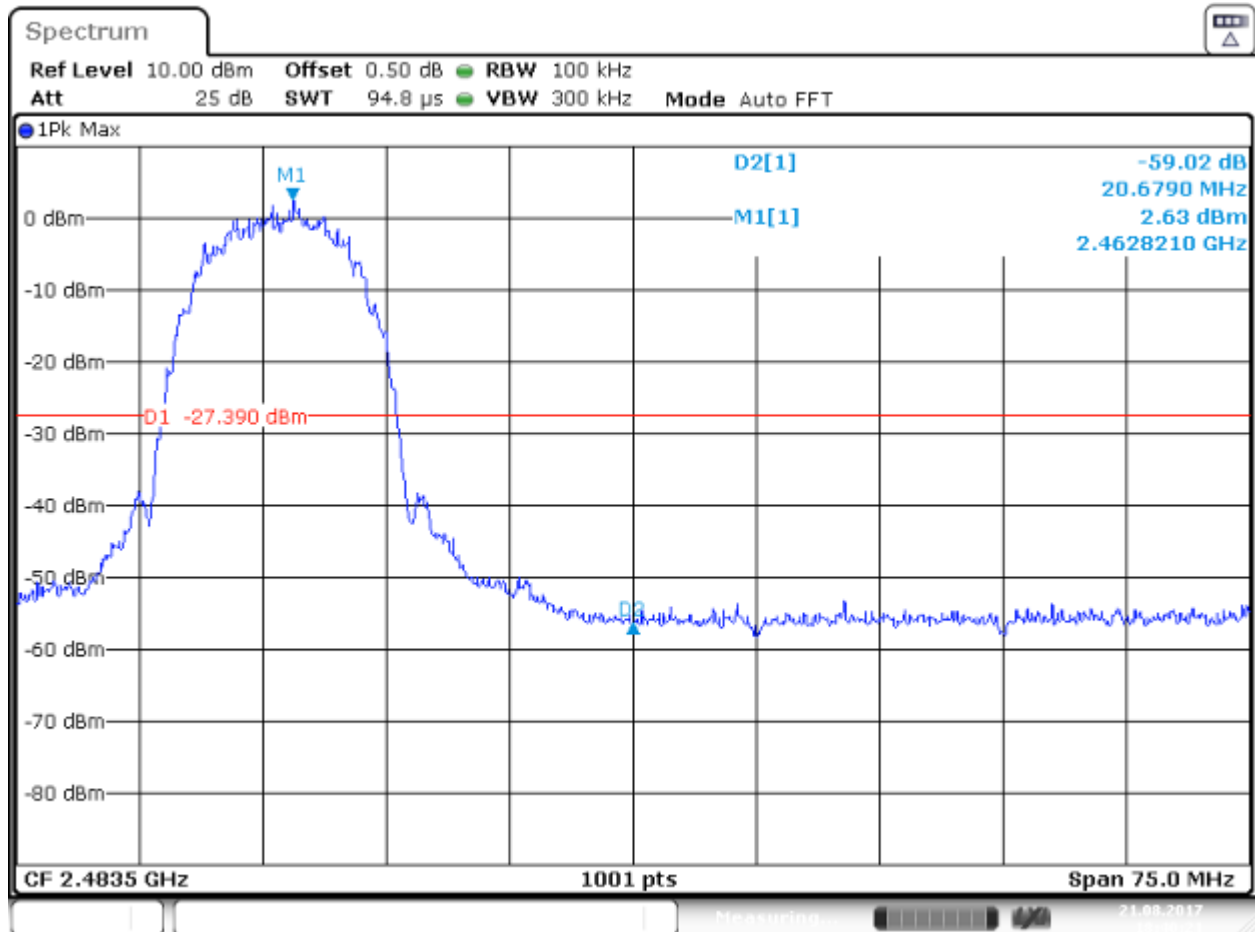
Plot 4.12
Tx @ 2452MHz 802.11n HT40



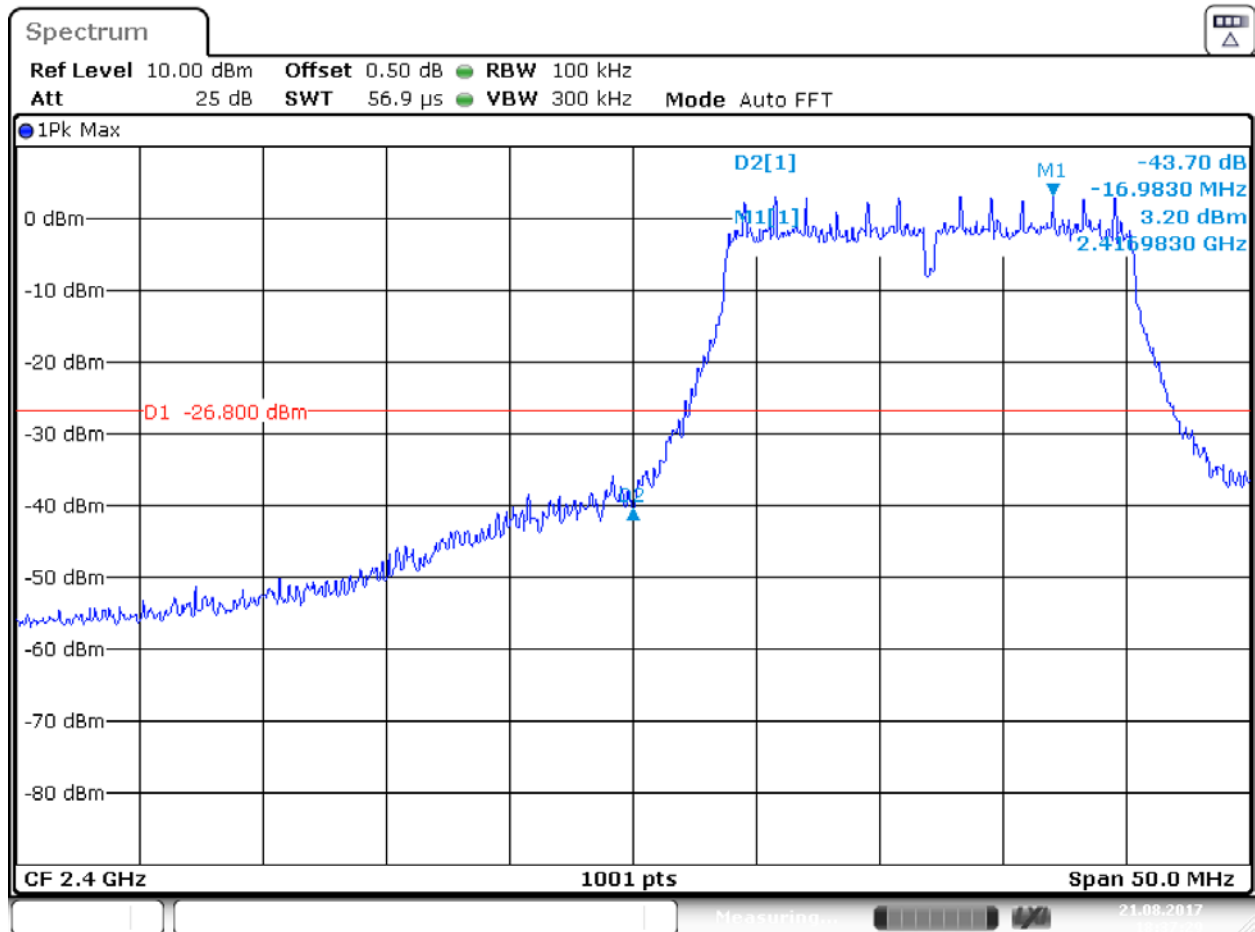
Plot 4.13
Conducted Band Edge, Tx @ 2412MHz 802.11b



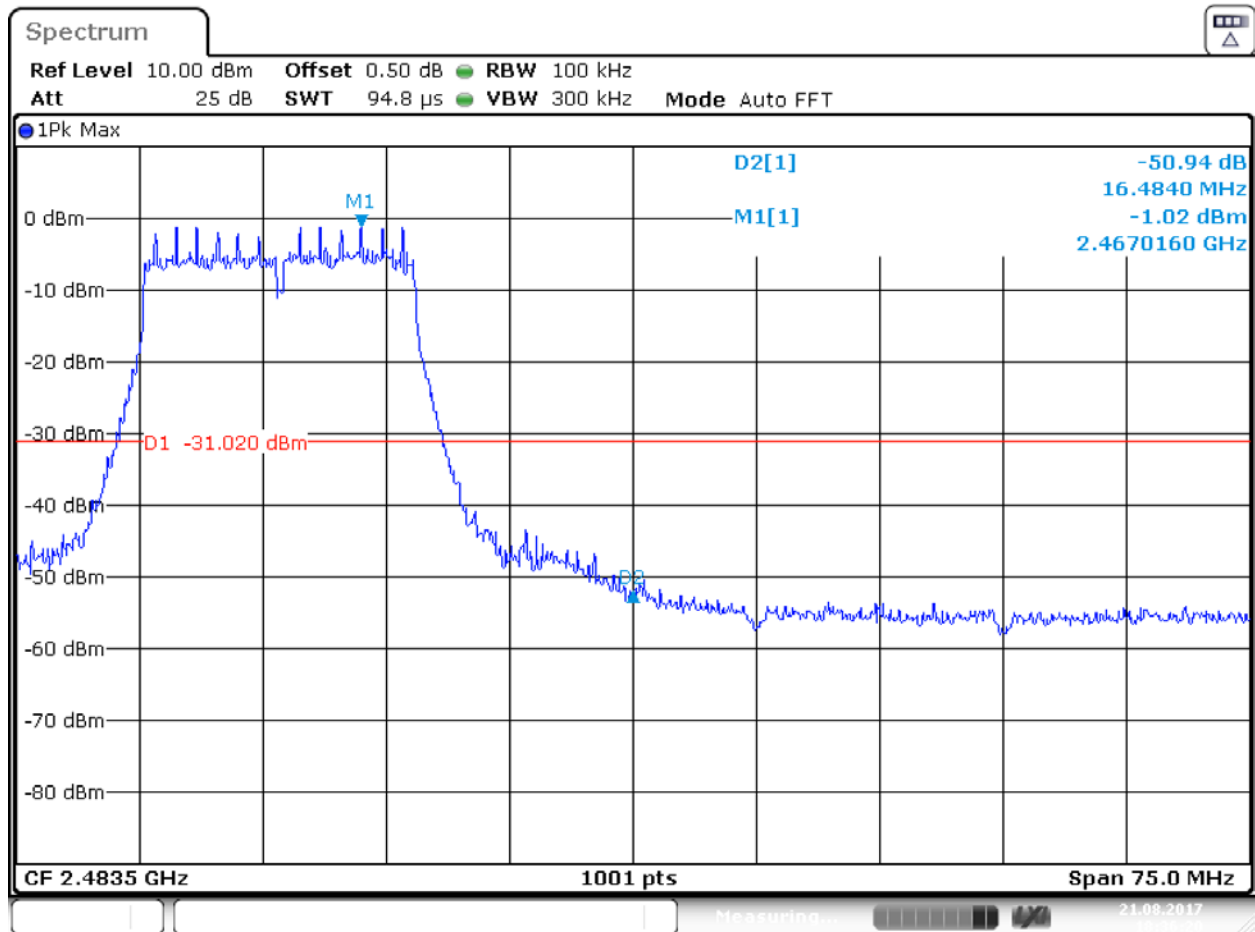
Plot 4.14
Conducted Band Edge, Tx @ 2462MHz 802.11b



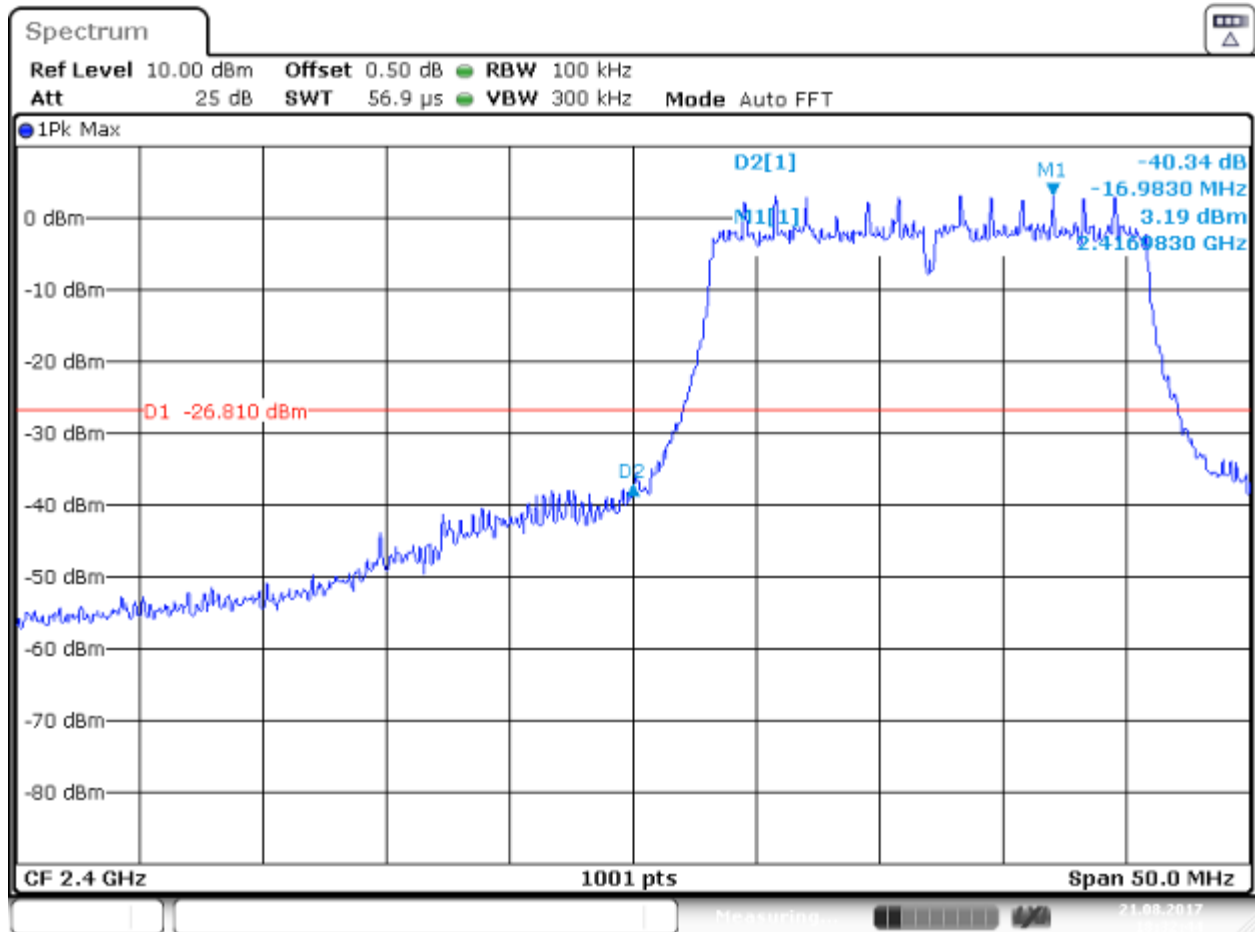
Plot 4.15
Conducted Band Edge, Tx @ 2412MHz 802.11g



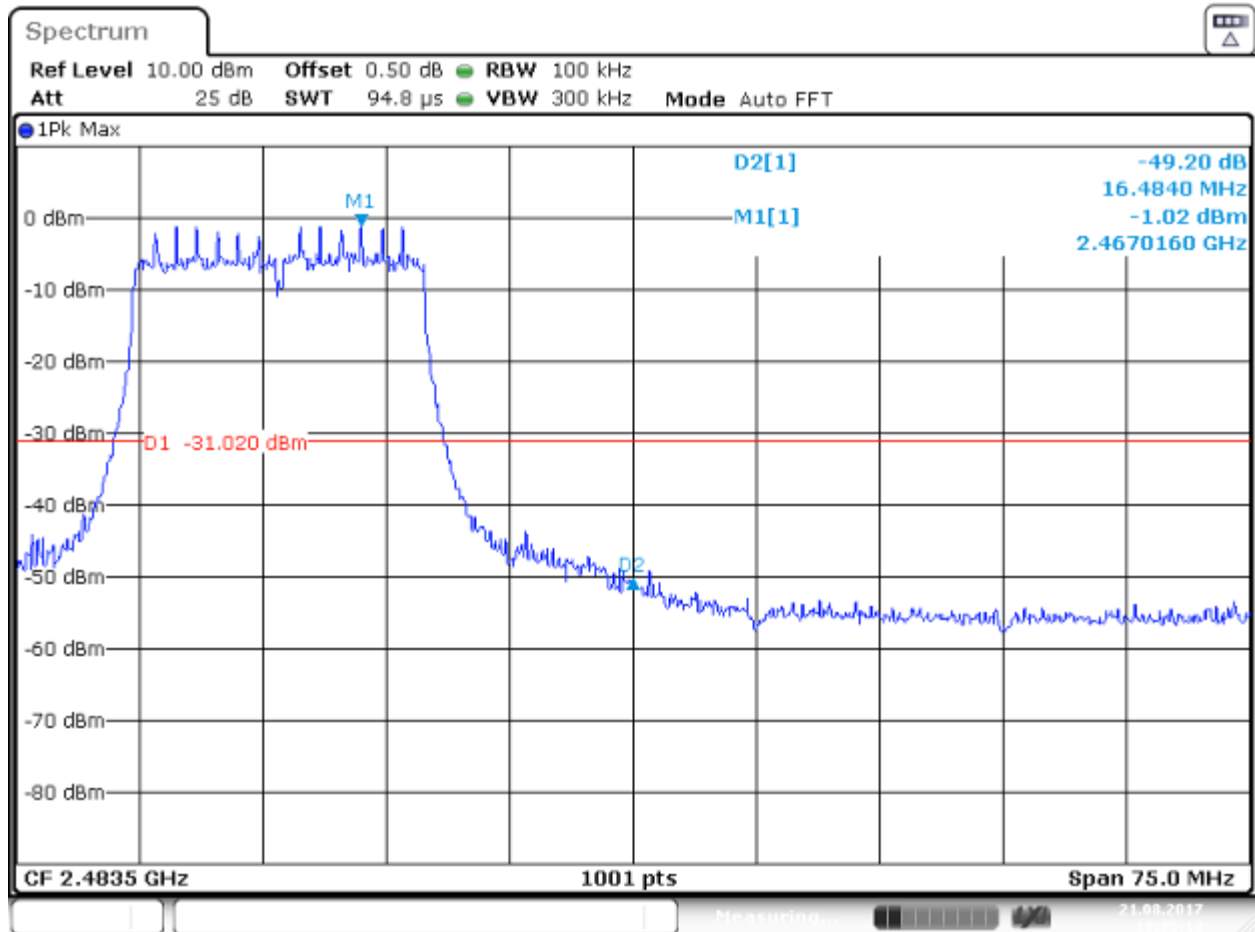
Plot 4.16
Conducted Band Edge, Tx @ 2462MHz 802.11g



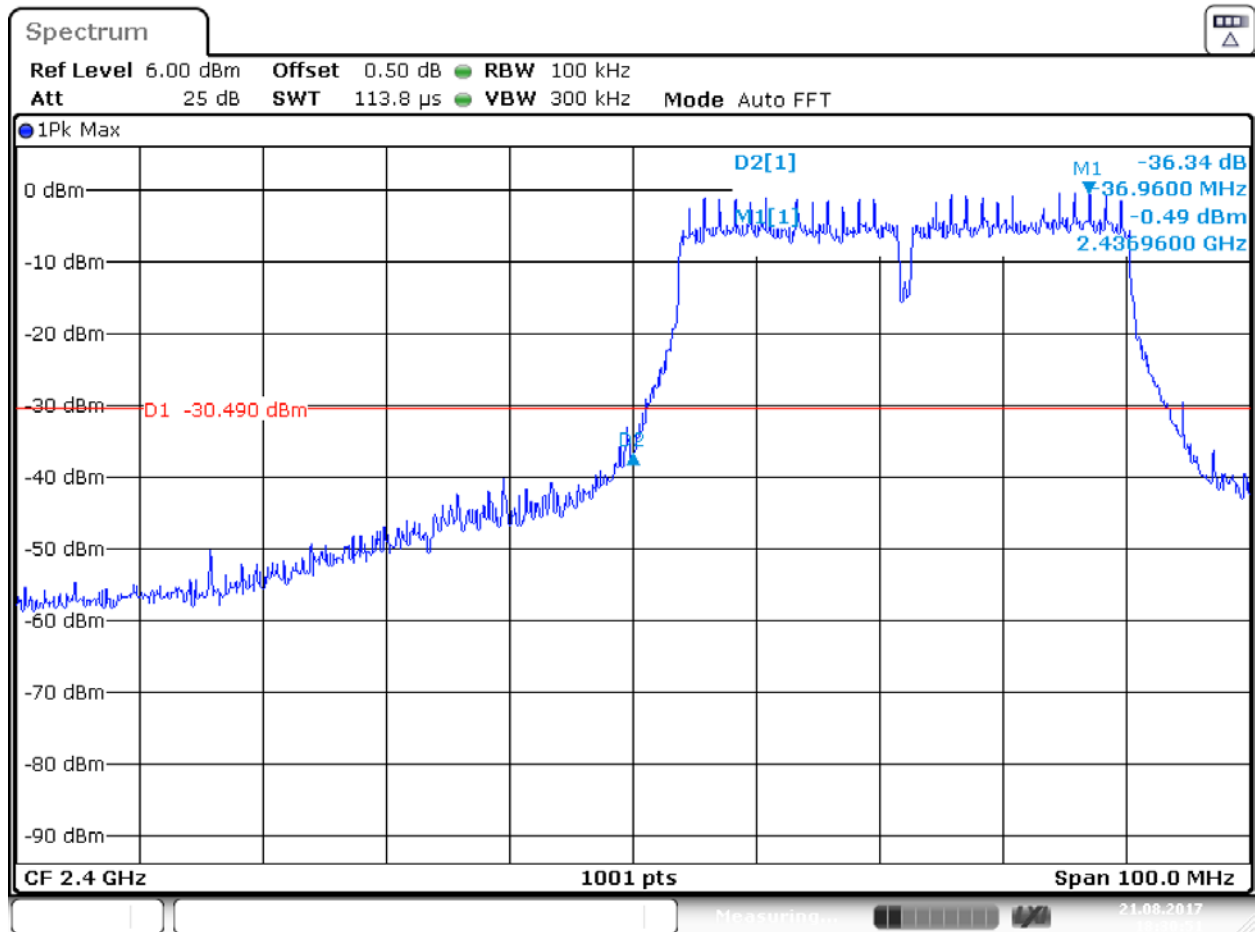
Plot 4.17
Conducted Band Edge, Tx @ 2412MHz 802.11n HT20



Plot 4.18
Conducted Band Edge, Tx @ 2462MHz 802.11n HT20



Plot 4.19
Conducted Band Edge, Tx @ 2422MHz 802.11n HT40



Plot 4.20
Conducted Band Edge, Tx @ 2452MHz 802.11n HT40

