

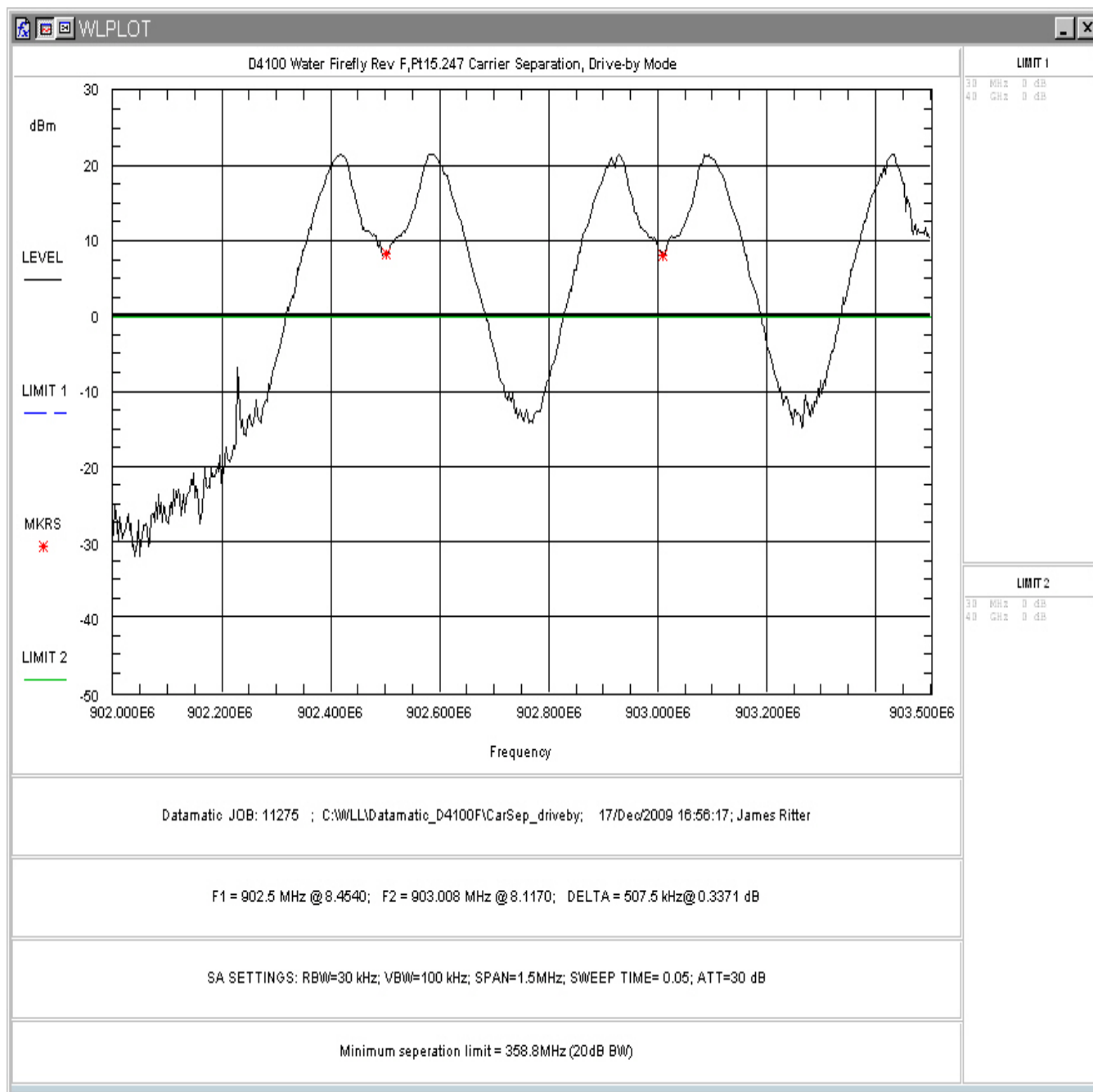


Figure 24: Channel Spacing. Driveby mode

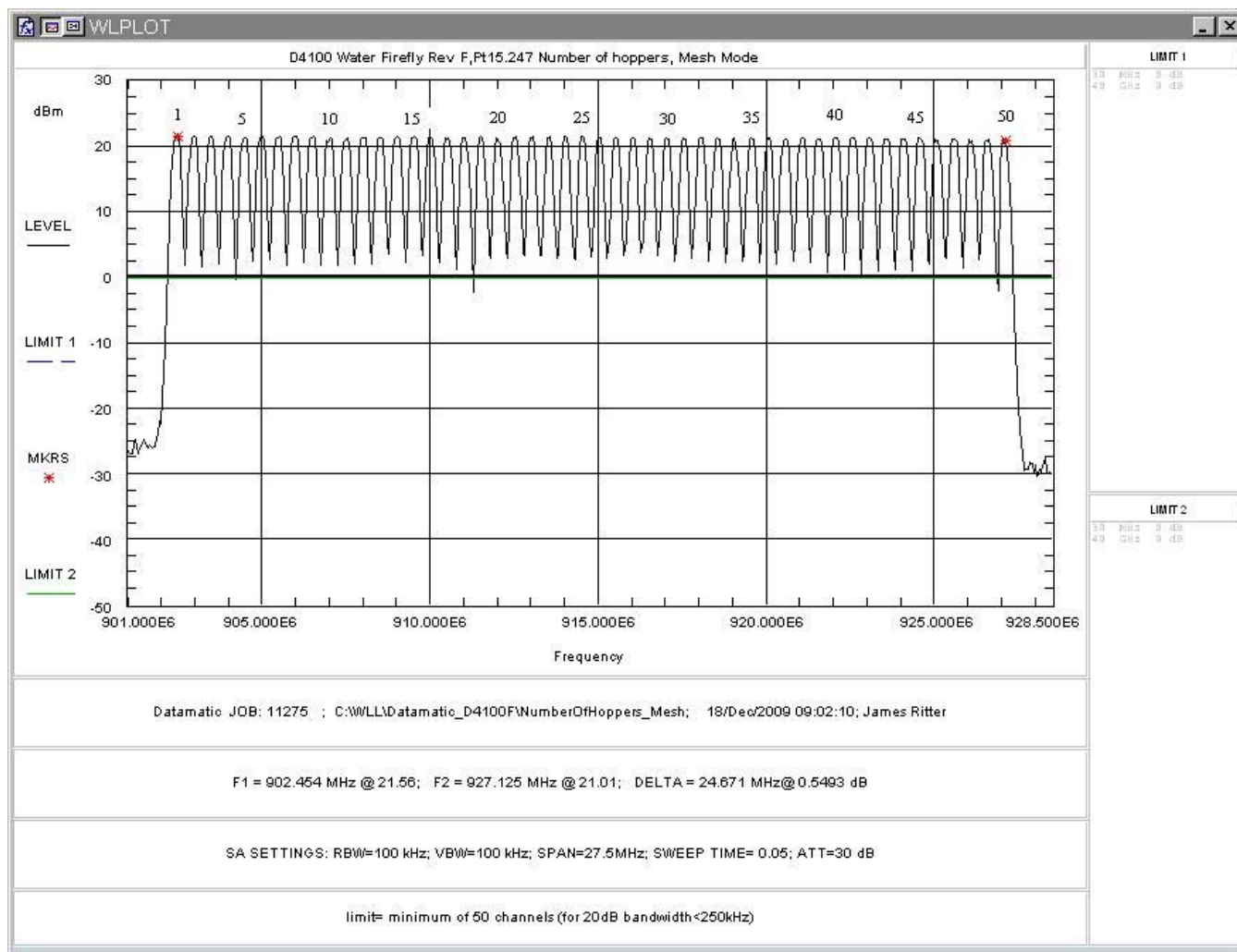


Figure 25: Number of Channels, Mesh Mode

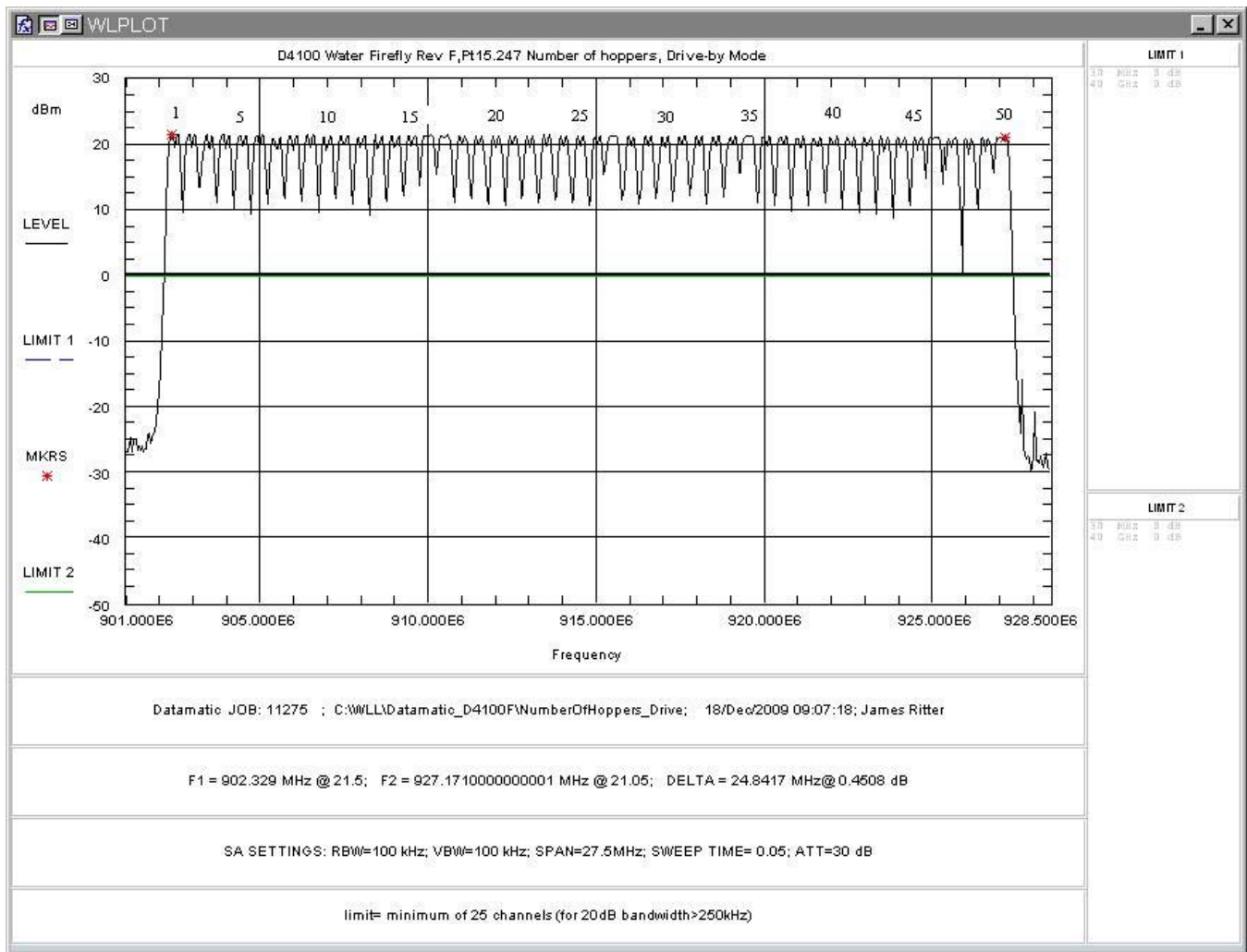


Figure 26: Number of Channels, Driveby Mode

5.6 Conducted Spurious Emissions at Antenna Terminals (FCC Part §247(d), RSS-210 [A8.5])

The EUT must comply with requirements for spurious emissions at antenna terminals. All spurious emissions in any 100 kHz bandwidth outside the frequency band in which the spread spectrum device is operating shall be attenuated 20 dB below the highest power level in a 100 kHz bandwidth within the band containing the highest level of the desired power.

The EUT antenna was removed and the cable was connected directly into a spectrum analyzer through a 10 dB attenuator. An offset was programmed into the spectrum analyzer to compensate for the loss of the external attenuator. The spectrum analyzer resolution bandwidth was set to 100 kHz and the video bandwidth was set to 100 kHz. The amplitude of the EUT carrier frequency was measured to determine the emissions limit (20 dB below the carrier frequency amplitude). The emissions outside of the allocated frequency band were then scanned from 30 MHz up to the tenth harmonic of the carrier.

The following are plots of the conducted spurious emissions data. A close-up of the band-edges is provided in both a hopping and stationary frequency mode.

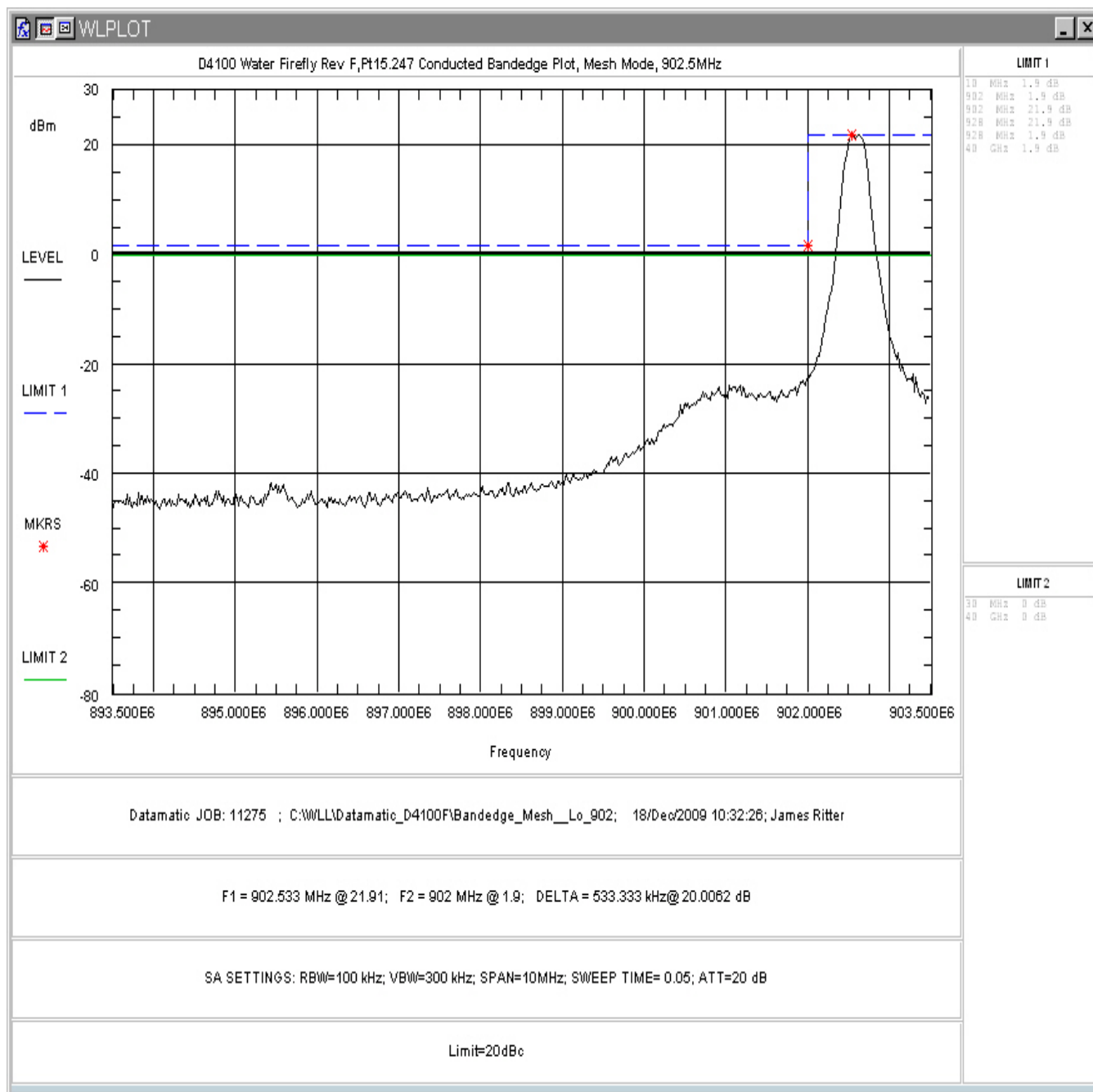


Figure 27: Lower Band-edge, Low channel, Non-hopping, Mesh Mode

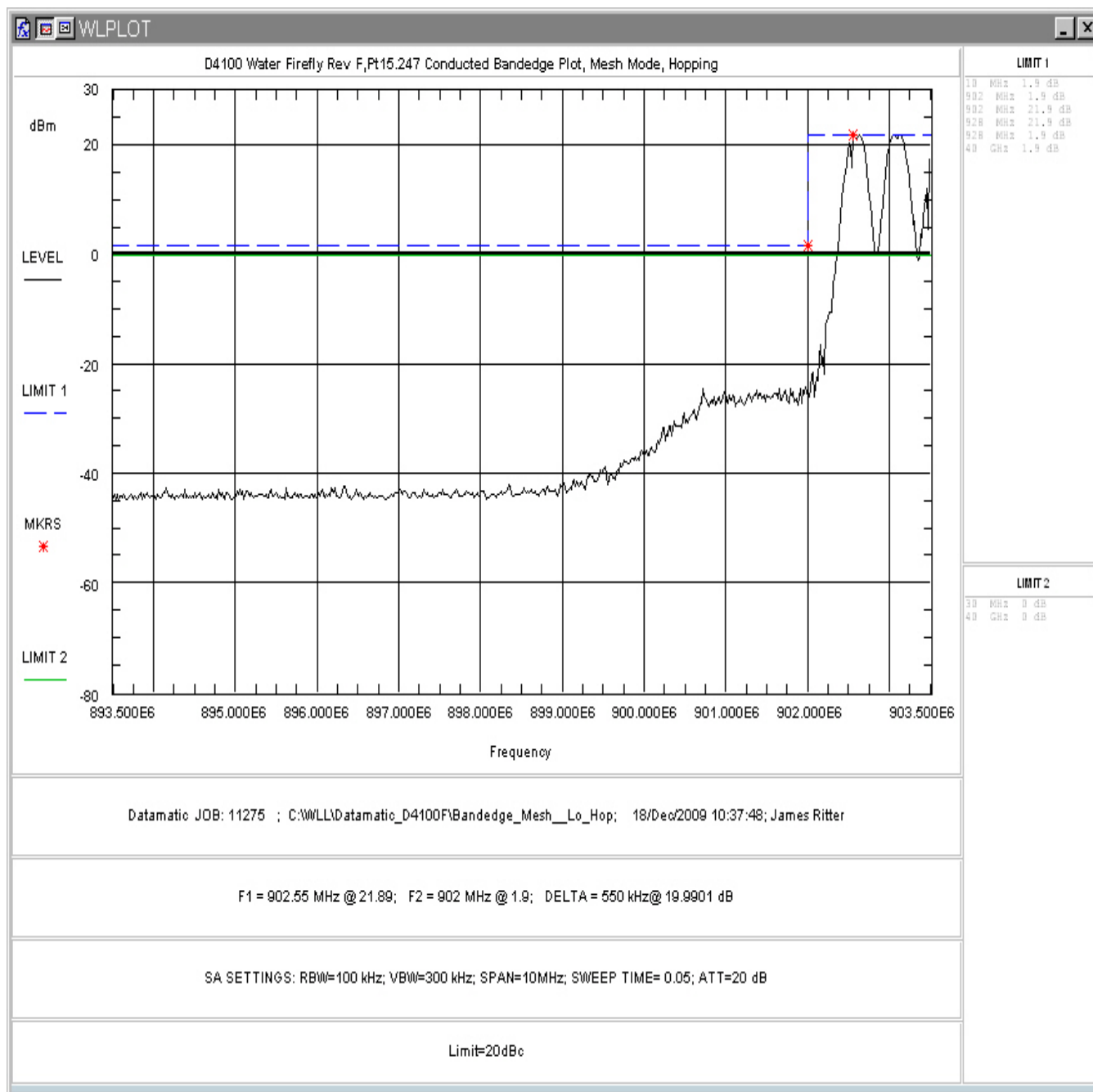


Figure 28: Lower Band-edge, Low channel, Hopping, Mesh Mode

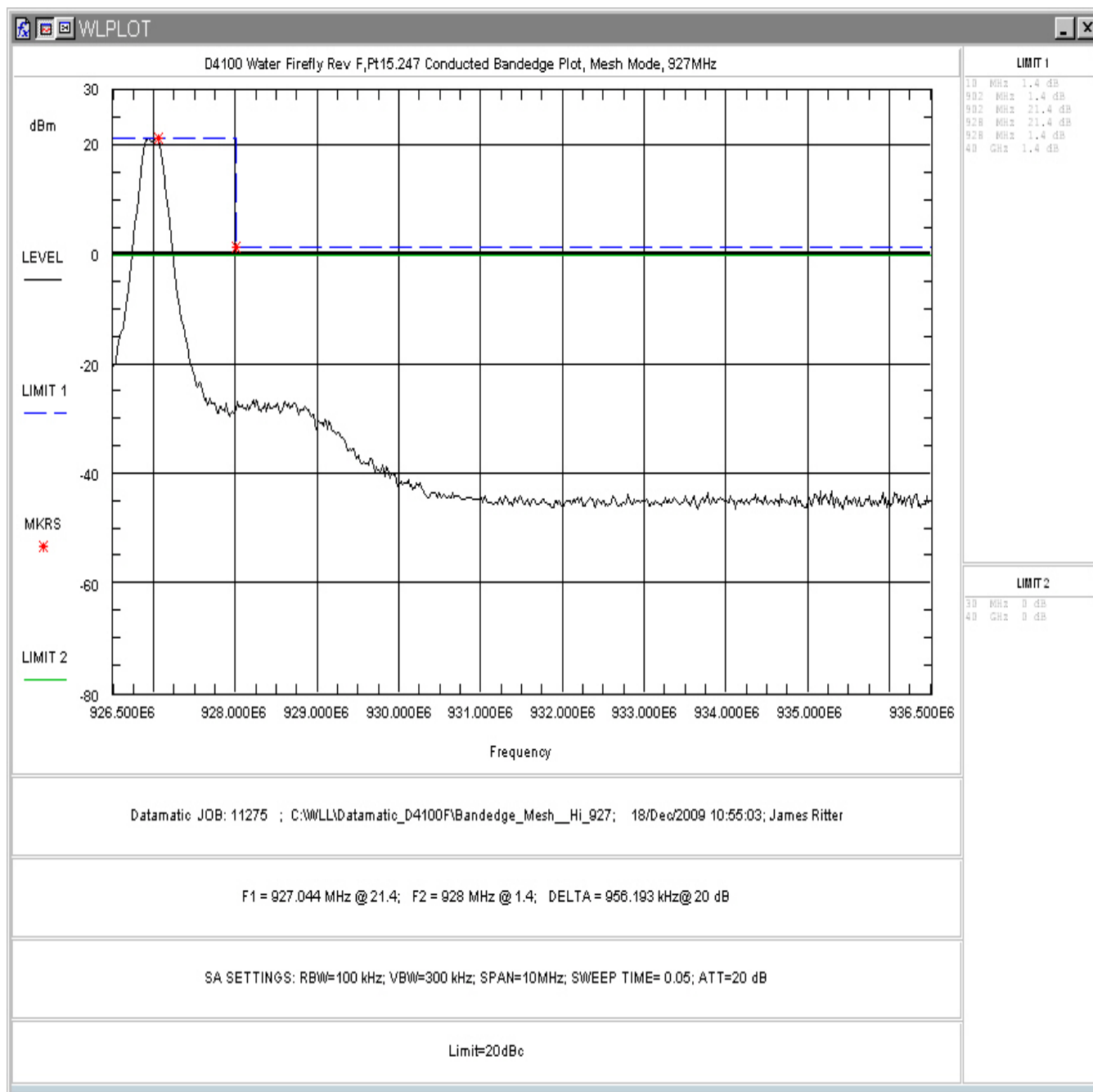


Figure 29: Upper Band-edge, High channel, Non-hopping, Mesh Mode

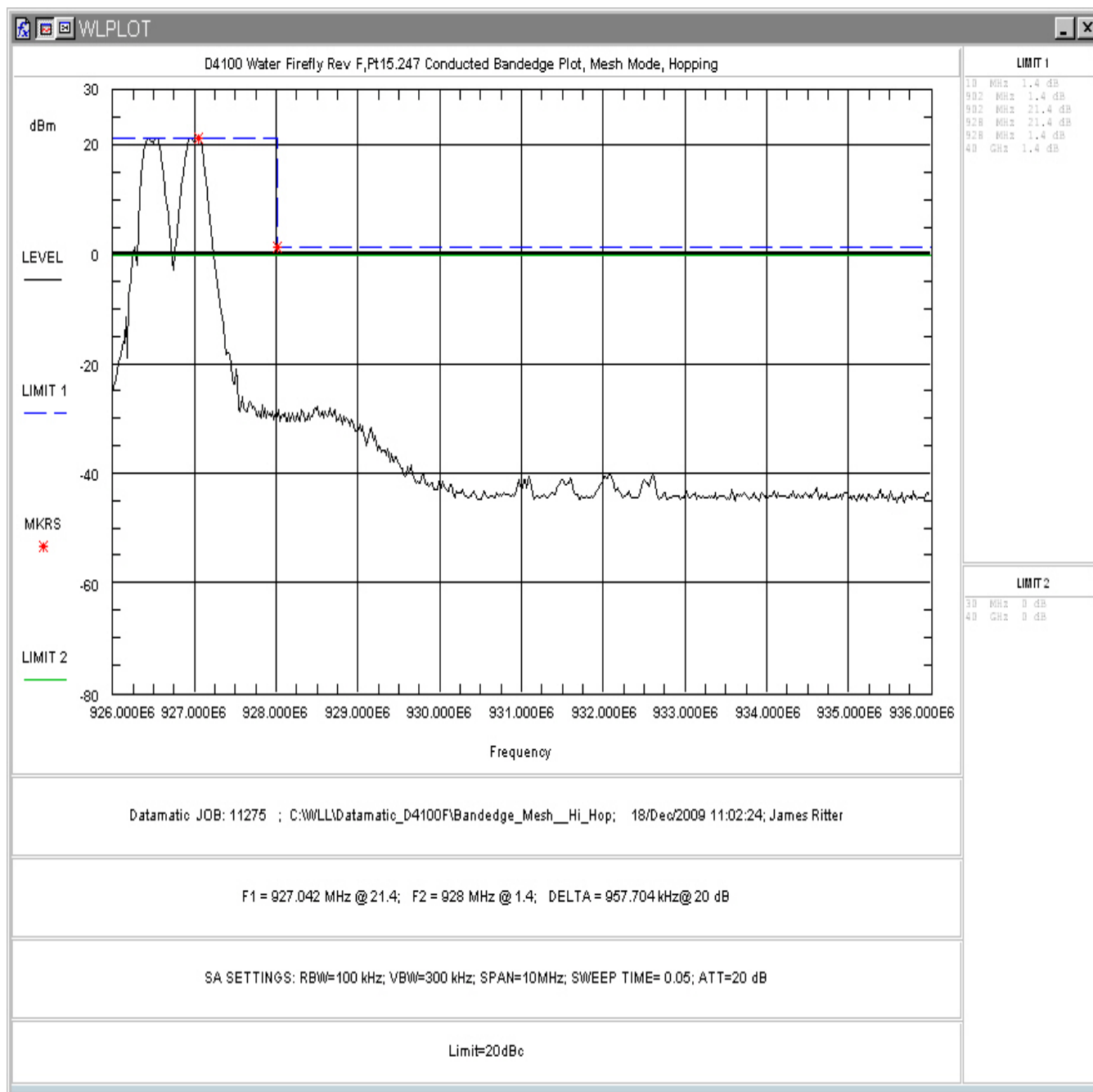


Figure 30: Upper Band-edge, High channel, Hopping, Mesh Mode

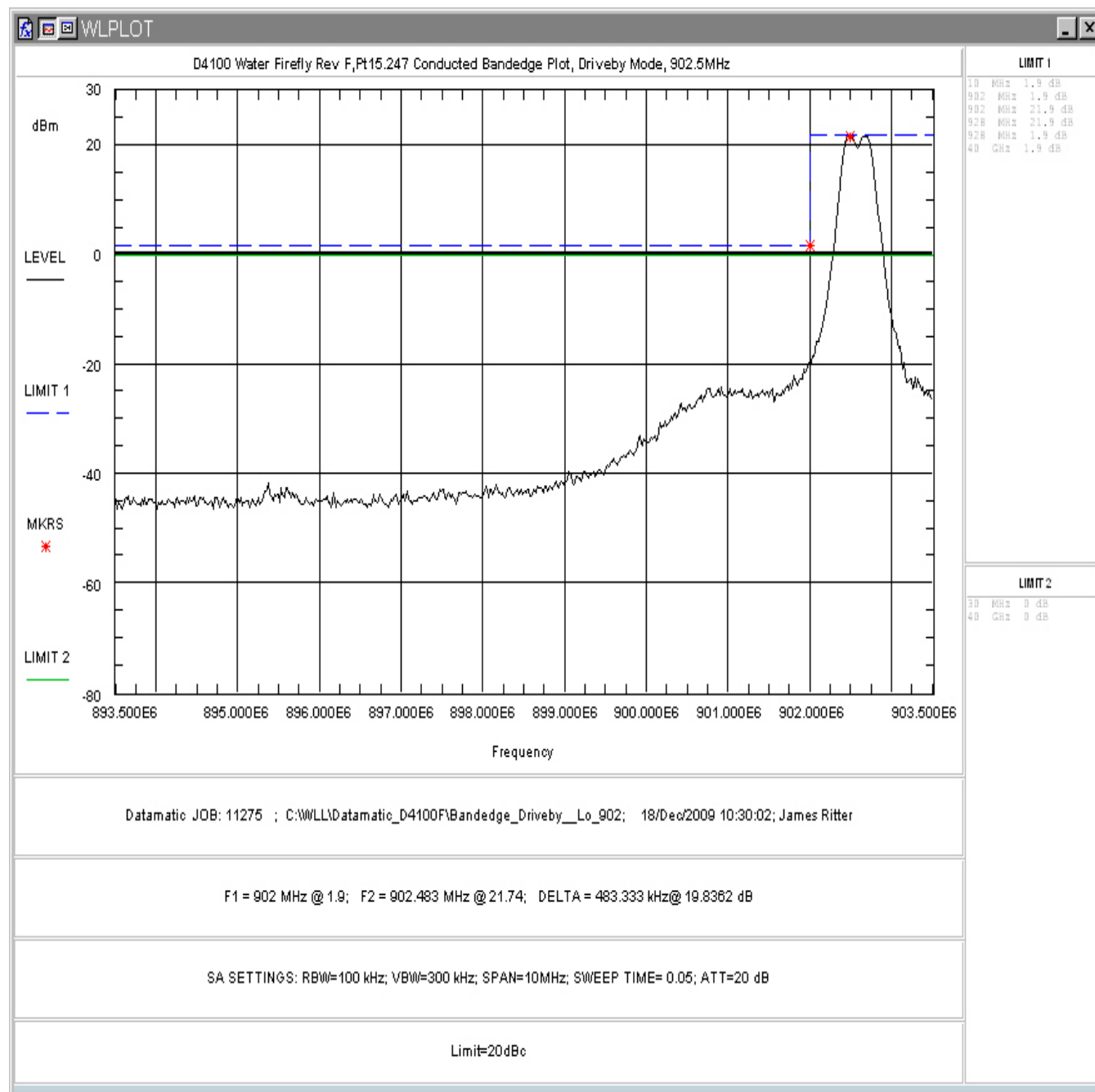


Figure 31: Lower Band-edge, Low channel, Non-hopping, Driveby Mode

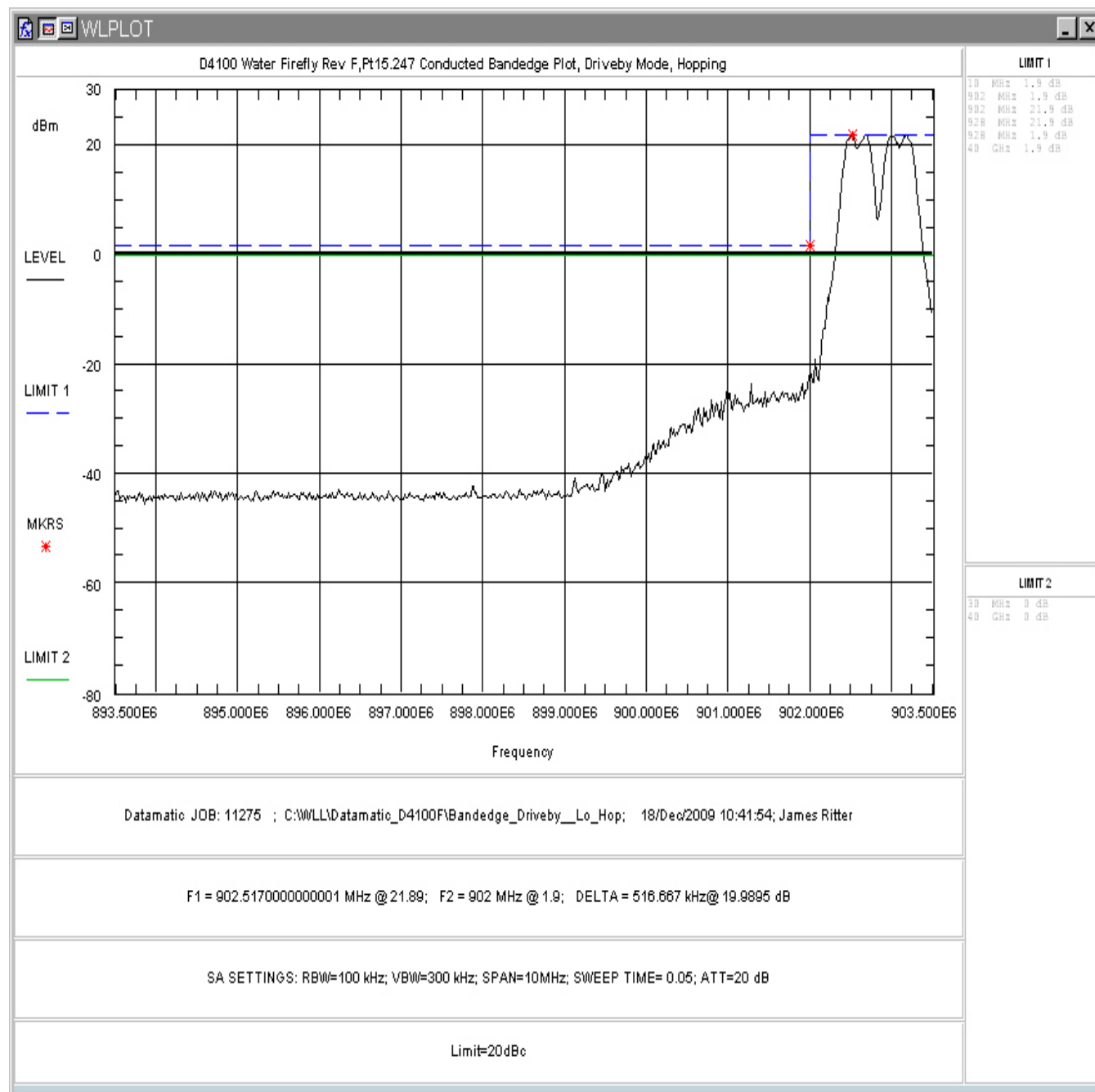


Figure 32: Lower Band-edge, Low channel, Hopping, Driveby Mode

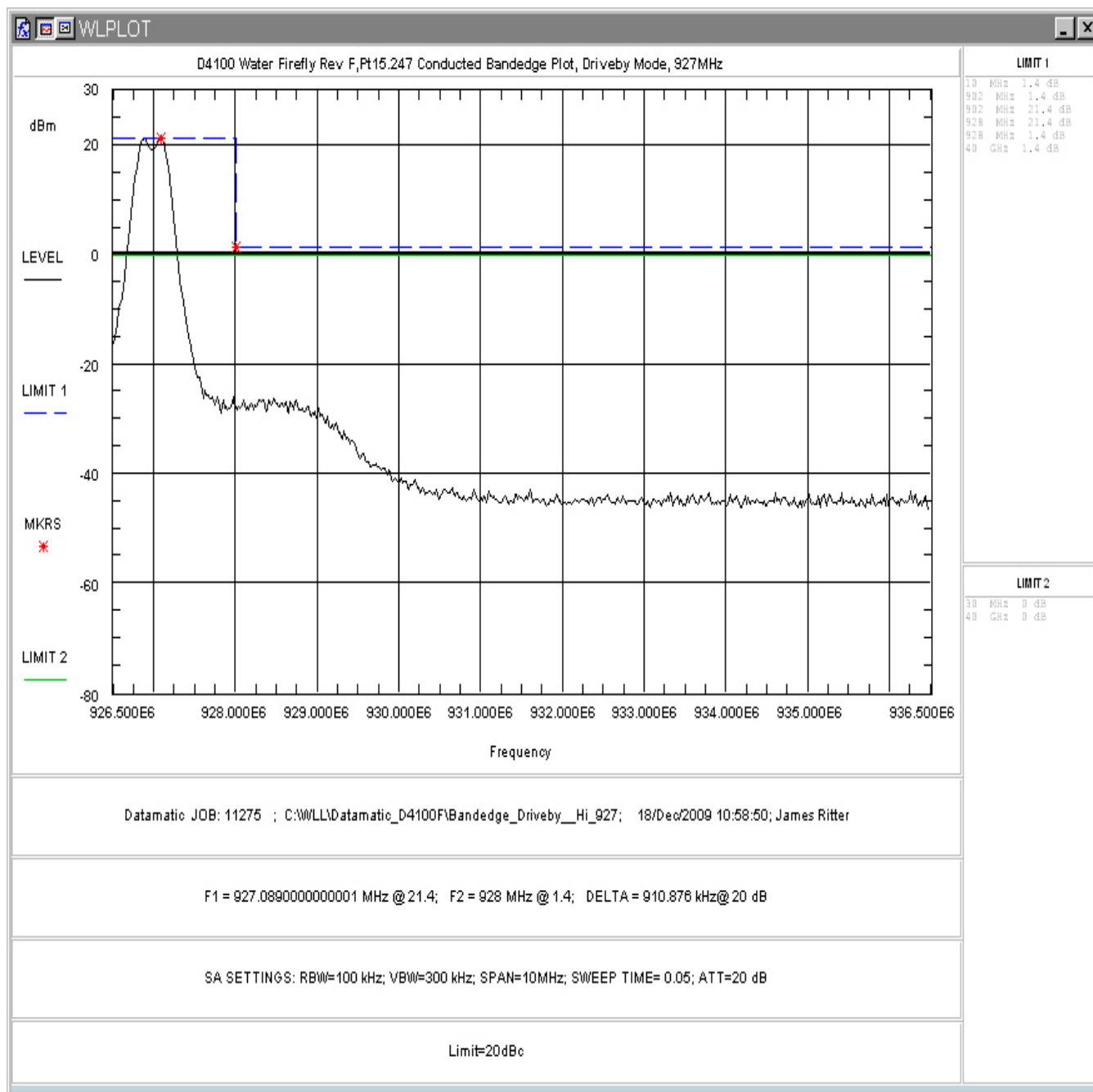


Figure 33: Upper Band-edge, High channel, Non-hopping, Driveby Mode

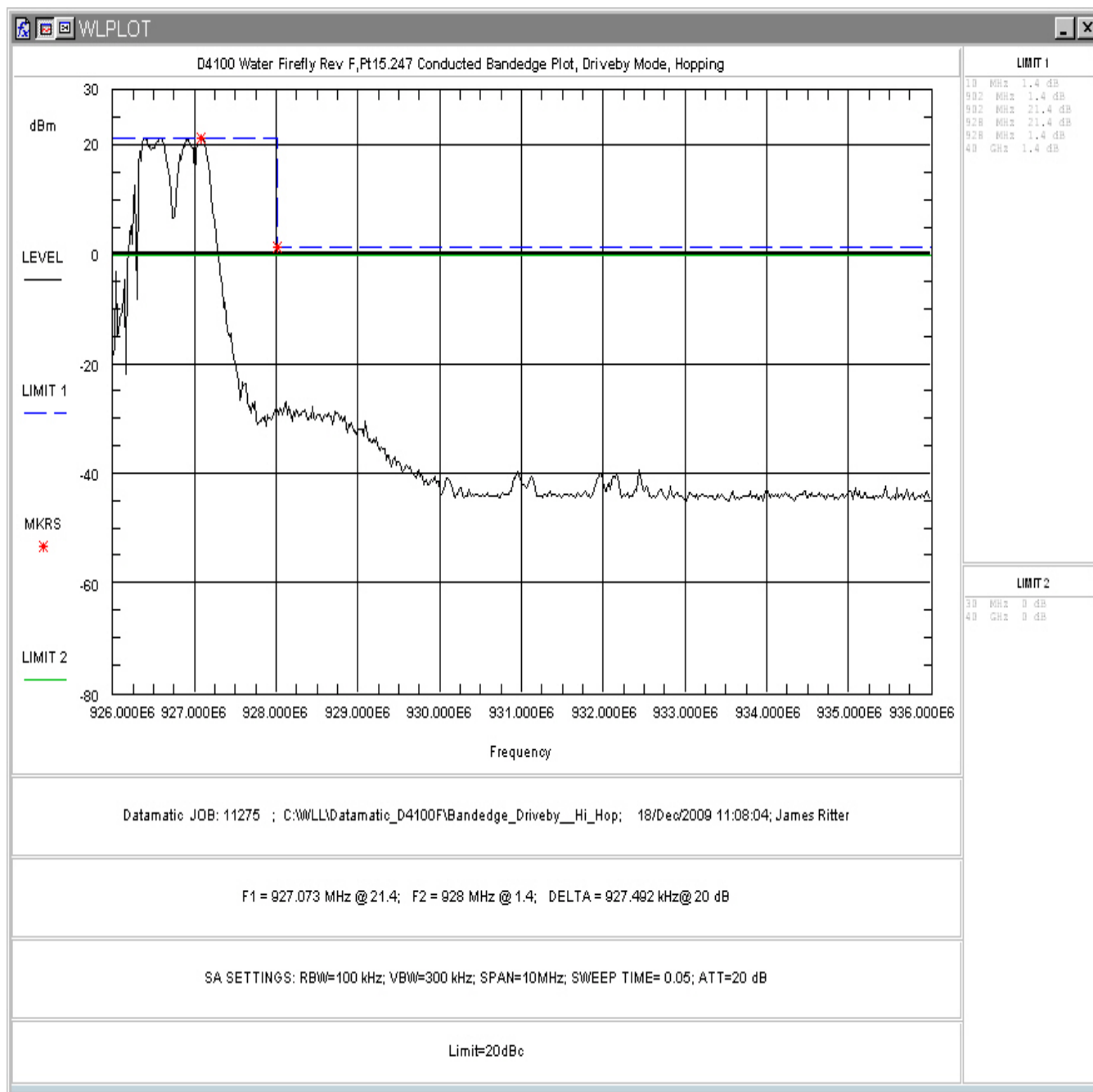


Figure 34: Upper Band-edge, High channel, Hopping, Driveby Mode

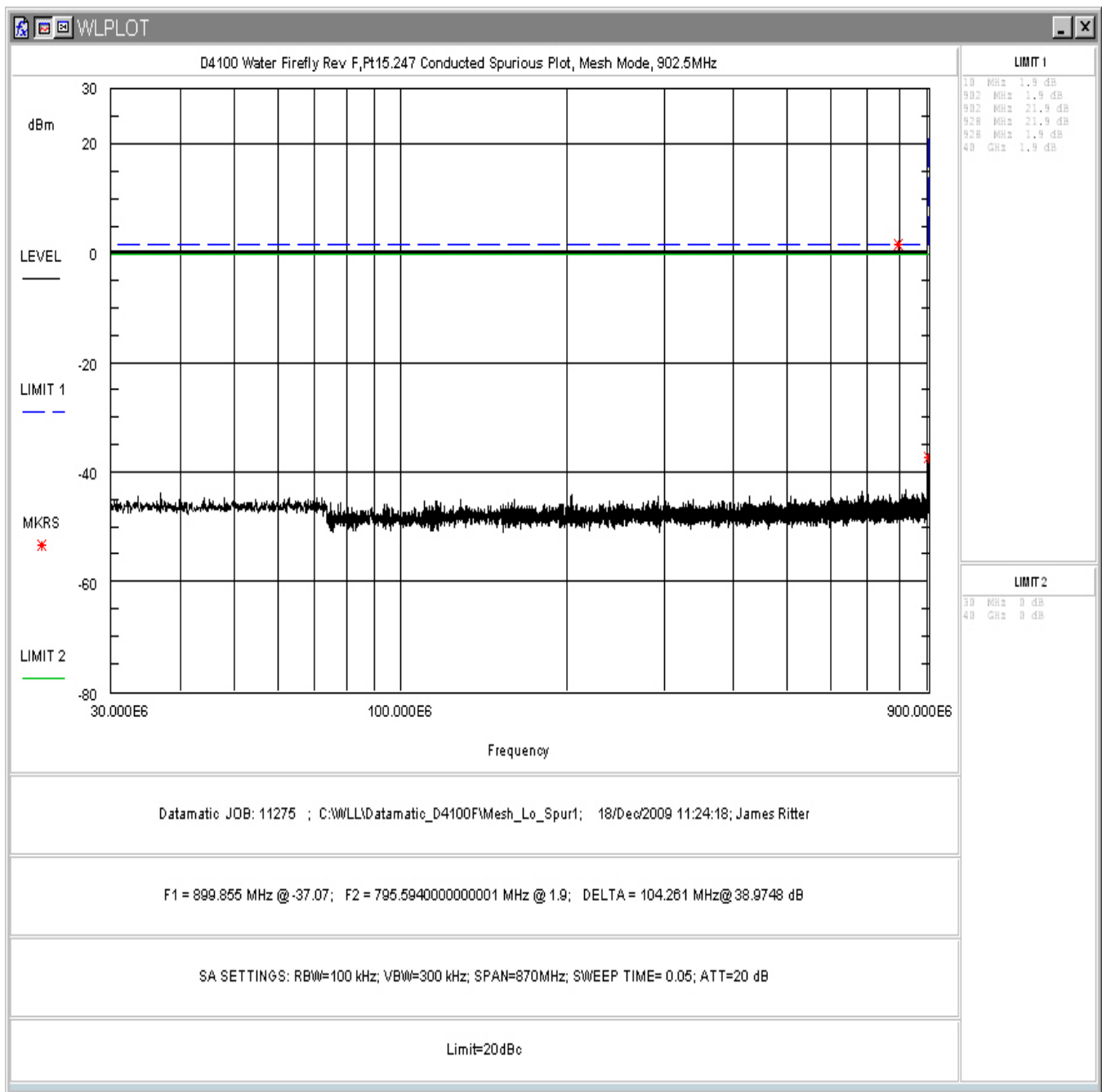


Figure 35: Conducted Spurious Emissions, Mesh Mode, Low Channel 30 - 900MHz

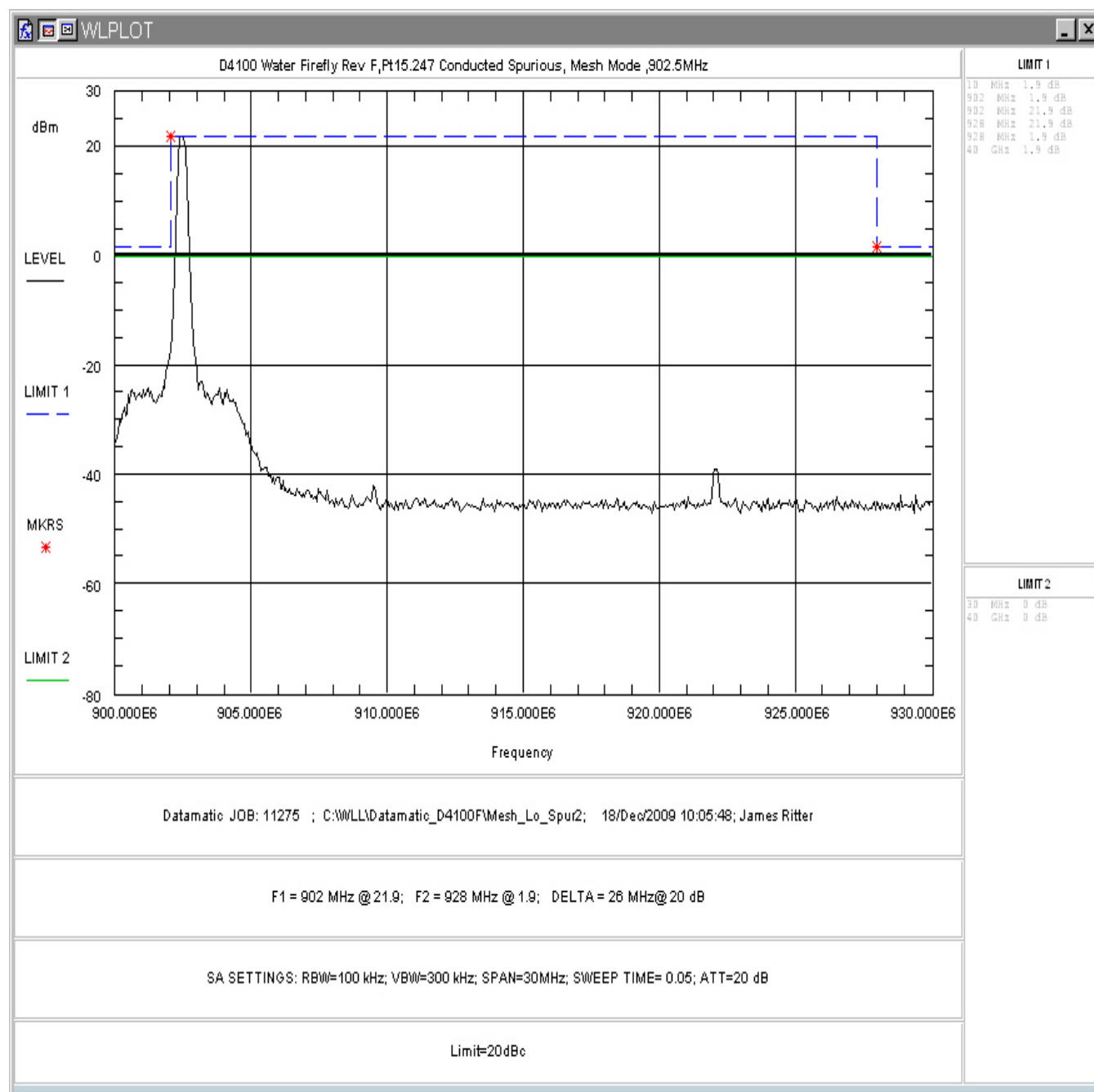


Figure 36: Conducted Spurious Emissions, Mesh Mode, Low Channel 900 - 930MHz

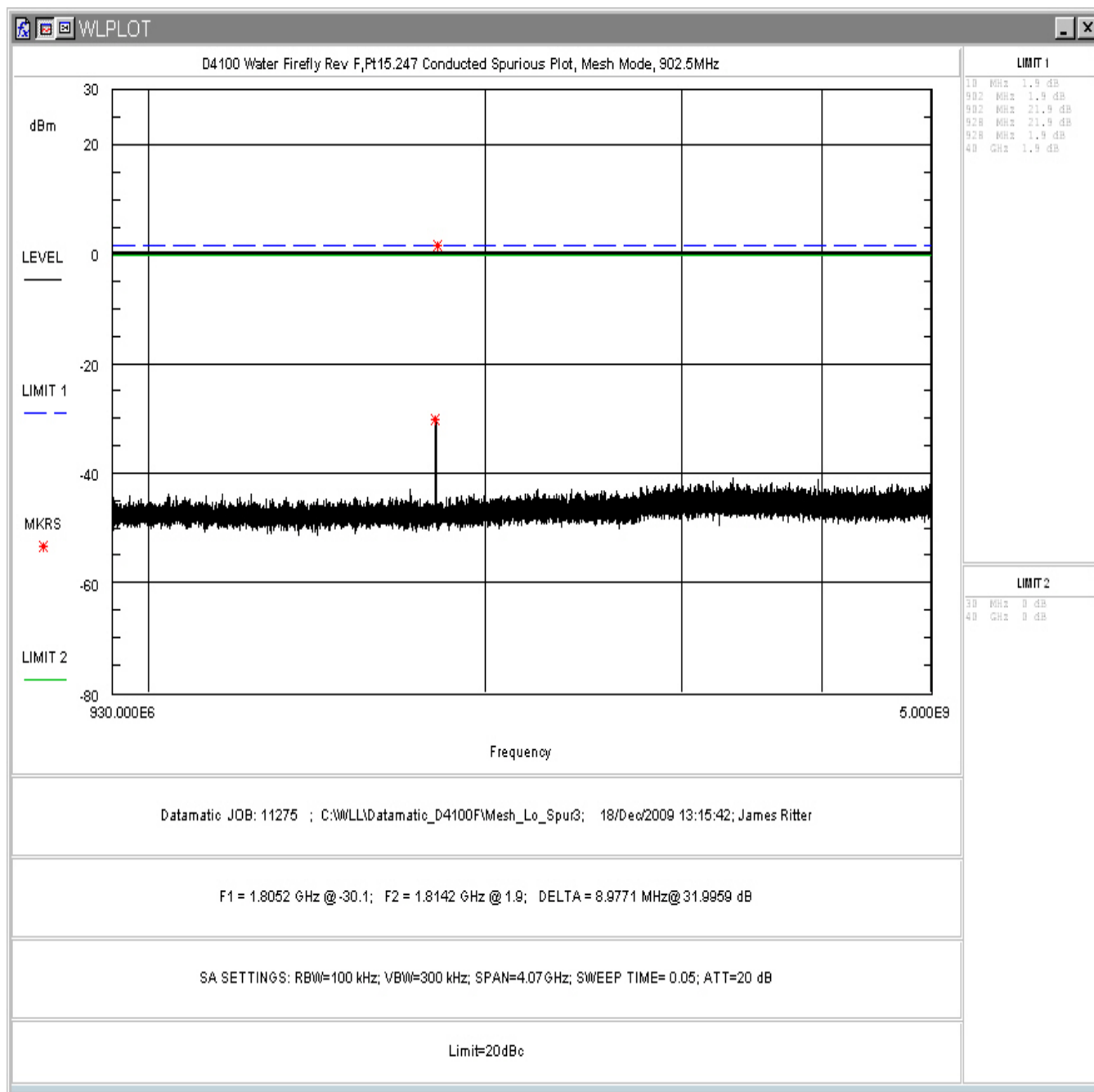


Figure 37: Conducted Spurious Emissions, Mesh Mode, Low Channel 930MHz – 5GHz

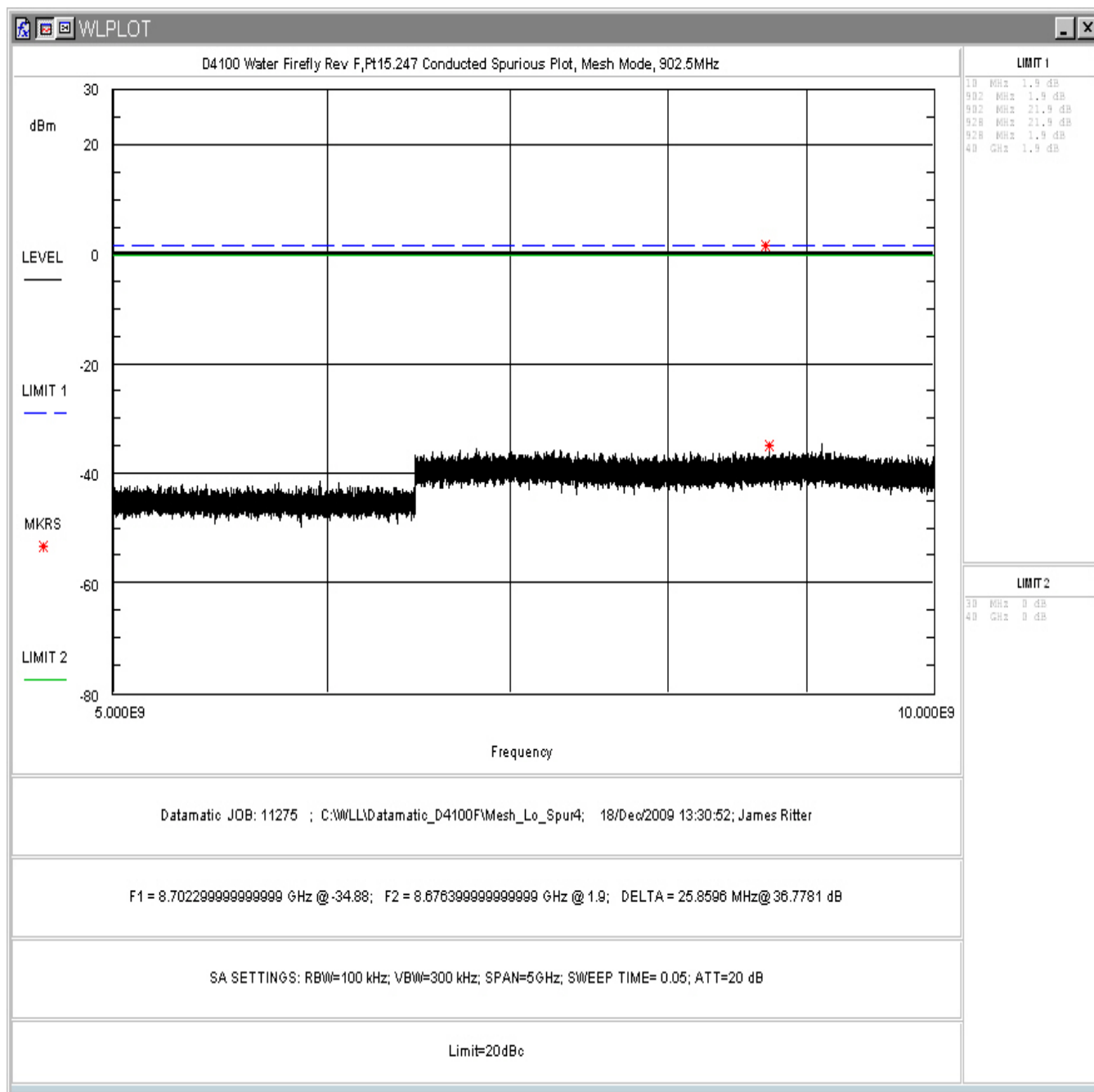


Figure 38: Conducted Spurious Emissions, Mesh Mode, Low Channel 5GHz – 10GHz

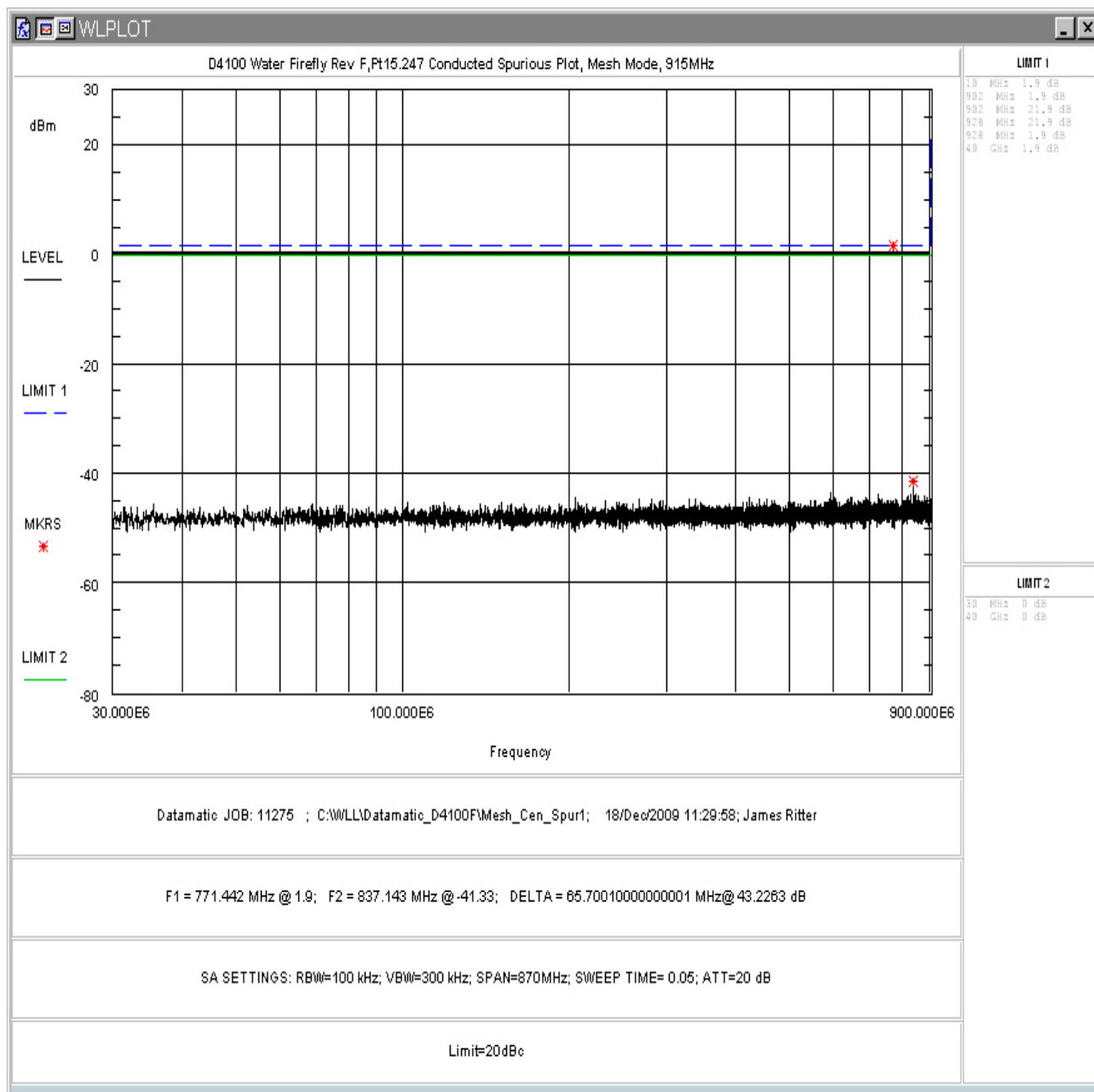


Figure 39: Conducted Spurious Emissions, Mesh Mode, Center Channel 30 - 900MHz

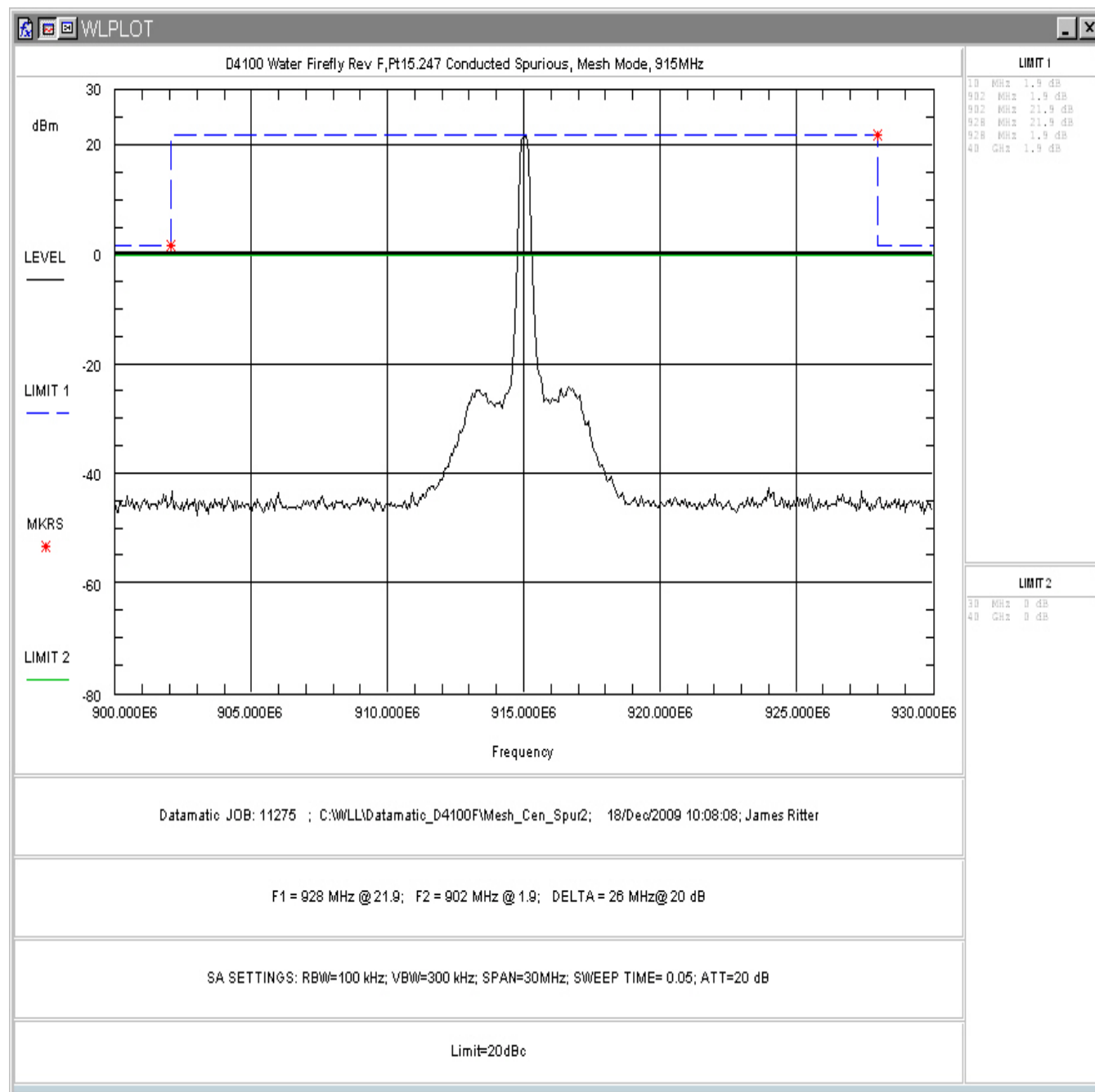


Figure 40: Conducted Spurious Emissions, Mesh Mode, Center Channel 900 - 930MHz

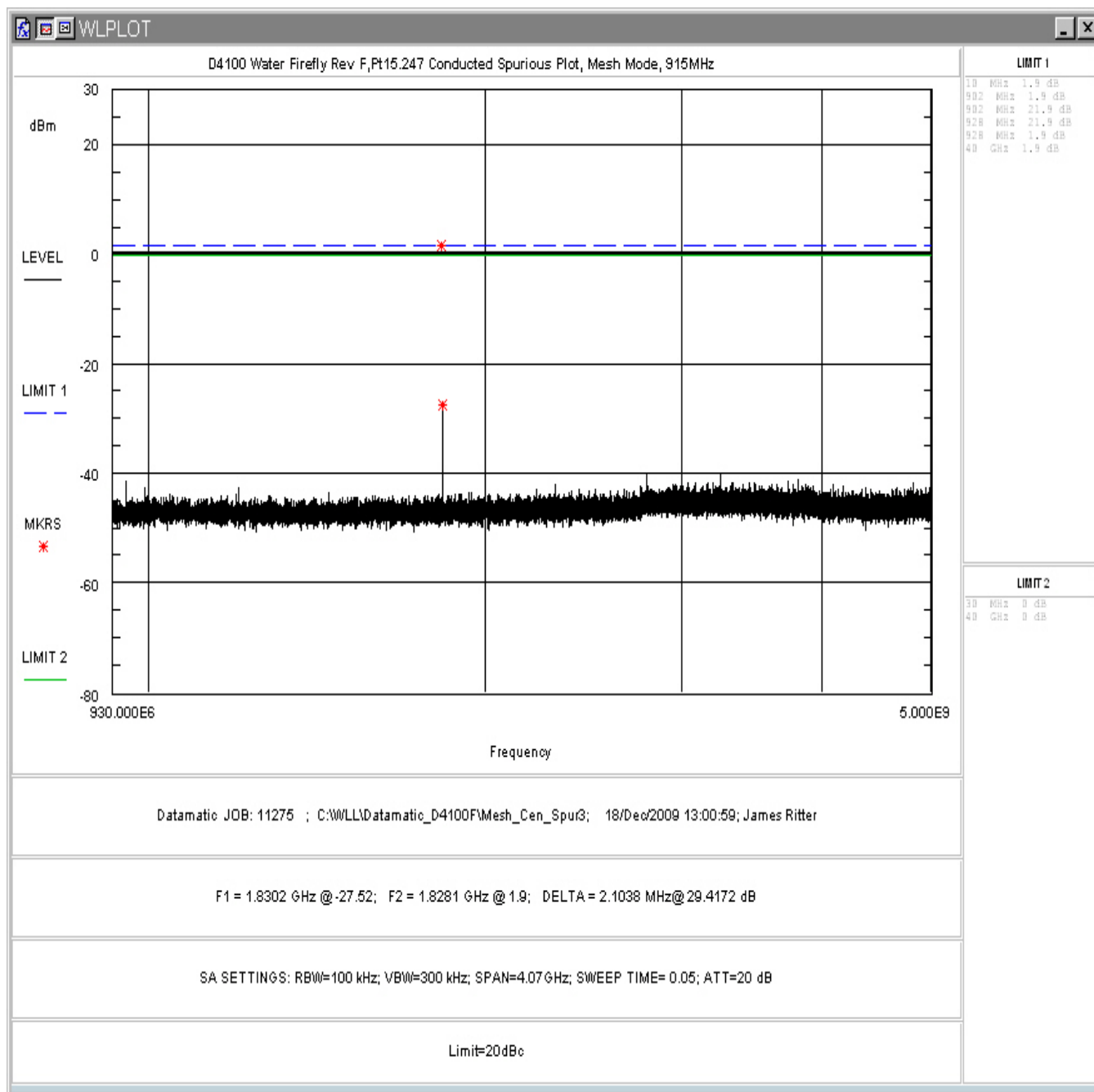


Figure 41: Conducted Spurious Emissions, Mesh Mode, Center Channel 930MHz – 5GHz

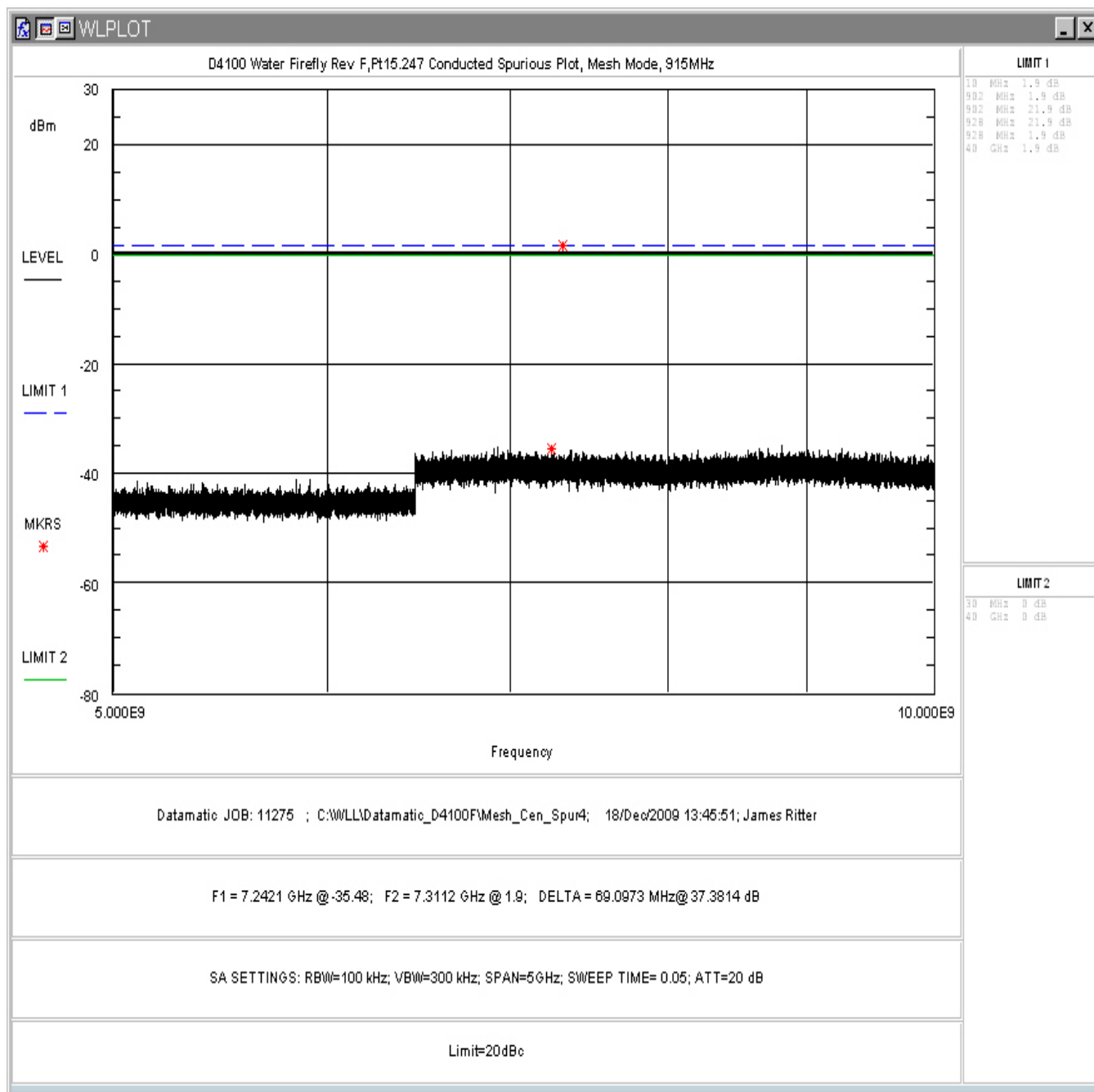


Figure 42: Conducted Spurious Emissions, Mesh Mode, Center Channel 5 – 10GHz