

September 18, 2017

The Federal Communications Commission  
445 12th Street, SW  
Washington, DC 20554

STA Confirmation Number: EL654305  
STA File Number: 1353-EX-ST-2017

**Submitted Electronically via ELS**

To Whom It May Concern:

Parallel Wireless, Inc., respectfully requests approval of this Experimental Special Temporary Authorization (“STA”) for the purpose of operating prototype LTE equipment in and around its laboratories in Nashua, NH. The demonstration will operate in the 2900 MHz spectrum (TDD Band 39). The frequency range involved is 1880-1920 MHz. Parallel Wireless understands that TDD Band 39 is unlicensed in the United States.

If granted, the STA will allow Parallel Wireless to further test the functionality of its LTE network equipment. Parallel Wireless respectfully requests that the FCC grant the STA for the period of October 2, 2017 through April 2, 2018. The proposed dates will enable Parallel Wireless to undertake additional product development, research, and testing that supports its goal to facilitate deployment of mobile broadband networks. The product, and the attendant experimental testing, is relevant to the continued expansion of mobile broadband networks, including methods for increasing capacity, network speed, equipment density, and ease of operation.

Parallel Wireless proposes to conduct the demonstration at its headquarters in Nashua, NH. The equipment will include two temporary base stations and associated antennas. The address and approximate reference coordinates (in Datum: NAD83) of the temporary fixed base stations are:

Parallel Wireless, Inc.  
100 Innovative Way, Suite 3410  
Nashua, NH 03062

42° 42' 50.1 North Latitude  
71° 27' 30.2 West Longitude  
Datum: NAD83

Parallel Wireless conducted a search of the Commission’s Universal Licensing System (“ULS”) database and verified that the proposed demonstration in Nashua, New Hampshire should not interfere with any primary operations in that spectrum.

The Parallel Wireless equipment constitutes two LTE eNodeB base stations. The base stations will connect to the operator network and provide cellular service. The backhaul connection for the eNodeB base station is provided wirelessly using Wi-Fi or using a conventional modem functionality. Demonstration of the base stations will entail conventional handsets connecting to each base station in their typical operating environment.



Parallel Wireless understands that operation under this STA would be on a temporary basis during the requested dates, is non-renewable, and that no other rights to this spectrum are conferred through the granting of the STA.

It is also understood that all operations under this STA will be terminated should the FCC or any other user report harmful interference. Parallel Wireless will maintain control of the system at all times and be able to take immediate steps to resolve any interference, including if necessary arranging for the discontinuance of operation. The single point of contact for this STA operation is:

Saroj Panigrahi  
Director SQA  
Parallel Wireless, Inc.  
(617) 306-9312  
[spanigrahi@parallelwireless.com](mailto:spanigrahi@parallelwireless.com)

The proposed system will not be used for mission critical or safety of life communications.

We welcome any comments or questions from the Commission, either to Bijan Razzaghi, I.P. Counsel at the contact information below, or to Saroj Panigrahi, Director SQA, at [spanigrahi@parallelwireless.com](mailto:spanigrahi@parallelwireless.com).

Best Regards,

/s/ Bijan Razzaghi

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