To:   Monica Roos   ITS/ES-Sto
Cc:   Danielle Gravelle  ITS/ES-Box
Subject:   National Semiconductor applications FCC ID: OXTLSE039R2 and
OXTLSE041R2
Dear Monica:

    Technical review of both applications is complete, and I note the
following:

1) Both applications: the prior versions of these products, OXTLSE039 and
OXTLSE041, were certified as modules. This is appropriate, as both devices
require external power and can be used in a variety of applications. The
"Application Notes LSE039R2/LSE041R2.pdf" from Mikael Ohlsson indicates that the
new applications should also have modular approval. Unfortunately, modular
approval requires that the modules be tested for radiated emissions outside of
any host device. The prior versions were both tested in a Bluetooth test jig,
which is open.

    The new test reports do not contain any evidence that these devices were
tested for radiated emissions outside of the host laptop. The test setup photos
all show laptop hosts. For reference, please review the test setup photos for
the prior versions of these products.

    Please provide test setup photos showing the EUTs in an open Bluetooth
test jig. Also, we need test setup photos for the conducted emissions tests
(preferably using the Bluetootg jig as well).

2) OXTLSE039R2

    a) The test report shows the EUT rated both at 0 dBm (p.3), and 1 dBm
(pages 15, 16, 17, etc.). The average measured output power is 1.11 mW or 0.45
dBm. I recommend that the report be corrected to show a 0 dBm output rating,
which agrees with the Ericsson BT module specification.

    b) The application information states that this device could be used in
cell phones. This is a co-location of transmitters, to which the FCC is
sensitive for reasons of RF exposure. We are aware that the FCC thinks it is OK
to co-locate a 1 mW BT transmitter and a cell phone, but I will need to contact
the FCC to confirm it is OK for us to certify, and for the right wording on the
Grant of Authorization.

3) OXTLSE041R2: The block diagram does not show the frequencies of any
oscillators, in the relevant blocks. Please amend the diagram to show all
oscillator frequencies, and re-submit. The diagram for OXTLSE039R2 is a good
example.

Thank you,
Roland