

QUALIFICATIONS AND CERTIFICATIONS
SECTION 2.911(d)

June 1, 2010

SECTION 2.911(d) QUALIFICATION OF ENGINEER (who performed or supervised the Tests).

Dheena D. Moongilan is a Distinguished Member of Technical Staff, Alcatel-Lucent. He received his BSEE, and MSEE from Madras University, India and another MSEE from Illinois Institute of Technology, Chicago, Illinois. He was trained in FCC testing procedures by his former Supervisor, Donald N. Heirman. He has 26 years of EMC testing experience. He is a NARTE certified EMC Engineer, certificate #EMC-00/1022-NE.

SECTION 2.911(d) CERTIFICATION OF TECHNICAL TEST DATA

I hereby certify that the technical test data are the results of tests performed or supervised by me.

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MANUFACTURERS — IDENTIFIER
SECTION 2.1033 (c) 1 and 2

MANUFACTURERS IDENTIFIER

SECTION 2.1033(c) 1

The full name and mailing address of the manufacturer of the device and the applicant for certification:

RESPONSE:

**APPLICATION: Alcatel-Lucent
600-700 Mountain Avenue
Murray Hill, NJ 07974
Attention: Rudolf J Pillmeier**

SECTION 2.1033(c) 2

FCC Identifier:

RESPONSE: LTE “9442 RRH2X40-70L” to be operated under Part 27 of the FCC Rules.

**FCC Identifier: AS5
FCC ID: AS5BBTRX-03**

**EMISSIONS, FREQUENCY RANGE,
POWER LEVEL**

SECTION 2.1033 (c) (4), (5), (6) and (7)

EMISSIONS, FREQUENCY RANGE, POWER LEVEL

SECTION 2.1033(c) (4)

Type or types of emission:

RESPONSE:

The “9442 RRH2X40-70L” capable of amplifying transmission involving the following types of emissions:

Measured Emission type:

8M95F9W for 10 MHz Bands

4M48F9W for 5 MHz Bands

SECTION 2.1033(c) (5)

Frequency Range

RESPONSE:

FCC 27.5 c (1)

Block	Transmit Frequency Range FCC 27.5(c) (1) MHz	Actual Frequency Used in Tests MHz	Bandwidth MHz
A	728 - 734	729.0 - 734.0	5
B	734 - 740	734.5 – 739.5	5
C	740 - 746	740.0 -745.0	5
A+B	728 - 740	729.5 – 739.5	10
B+C	734 - 746	734.5 – 744.5	10

SECTION 2.1033(c) (6)

Range of operating power values or specific operating power levels, and description of any means provided for variation of operating power.

RESPONSE:

The “9442 RRH2X40-70L” is capable of operating from 0.002 to 40 watts. The output power is measured at the External Antenna Connection (EAC) output connector of the “9442 RRH2X40-70L” cabinet. The power is under continuous software control. The short term peak power due to channel activity fluctuations is 40W +0.3/-1dB.

SECTION 2.1033(c) (7)

Maximum power rating as defined in the applicable part(s) of the rules.

RESPONSE:

The maximum average power output of the “9442 RRH2X40-70L cabinet EAC port is 2x40 watts (MIMO). The radio transmitter is operated under 47 CFR 27. There were 2 External antenna port (EAC) ports and the ports were randomly selected for all antenna port conducted tests.