



# Prüfbericht

(Test Report)

**Test report no.: 2\_2792-01-01/02**  
**ETSI EN 300 296-2 v1.1.1**  
**DJ-S446**

**CETECOM ICT Services GmbH**  
Untertürkheimer Straße 6-10  
D-66117 Saarbrücken



TTI-P-G166/98-30

## Accredited Bluetooth™ Test Facility (BQTF)

**Test report no.: 2\_2792-01-01/02**

**ETSI EN 300 296-2 v1.1.1**

**DJ-S446**

CETECOM – ICT Services GmbH

Untertürkheimerstr. 6-10

66117 Saarbrücken, Germany

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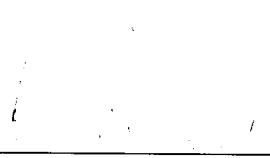
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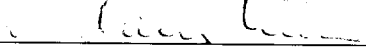
## 1 General Information

### 1.1 Notes

The test results of this test report relate exclusively to the item tested as specified in 1.5. The CETECOM ICT Services GmbH does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM ICT Services GmbH.

Technical responsibility for area of testing :

2002-06-19	RSC8414	Ames H.	
Date	Section	Name	Signature

2002-06-19	RSC8412	Hausknecht D.	
Date	Section	Name	Signature

## 1.2 Testing laboraty

CETECOM ICT Services GmbH

Untertürkheimer Straße 6 - 10

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Deutschland

Telefone : + 49 681 598 - 9100

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**Accredited testing laboratory**

**DAR-registration number : TTI-P-G-166/98-30**

**Accredited Bluetooth™ Test Facility (BQTF)**

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Test location, where different from CETECOM ICT Services GmbH:

Name :  
Street :  
Town :  
Country :  
Telephone :  
Telefax :

## 1.3 Details of applicant

Name : bogerfunk Funkanlagen GmbH  
Street : Grundesch 15  
Town : D-88326 Aulendorf / Steinenbach  
Country : Germany  
Telephone : +49 (0)7525 451  
Fax : +49 (0)7525 2382

Contact : Mr. Wolfgang Unger  
Telephone : +49 (0)7525 451

## 1.4 Application details

Date of receipt of application : 2002-02-15  
Date of receipt of test item : 2002-02-15  
Date of test : 2002-02-15 to 2002-6-18

## 1.5 Test item

Type of equipment : 2-Way portable PMR radio

Type designation : **DJ-S446 PMR**

Serial number : T000464

Manufacturer :

Name : ALINCO, INC., Electronics Division  
Street : Shin Dai Bldg., 9F.  
Town : 1-2-6 Dojimahama, Kita-Ku, OSAKA 530-0004  
Country : Japan

## Additional informations

Frequency : 446,006250 MHz 446,093750 MHz

Channel separation : 12,5 kHz

Number of channels : 8

Antenna : fixed antenna (8 cm)

Power supply : Tx:/Rx: 3,6V DC (Ni-MH)

Type of equipment : Category I

Unmodulated carrier : possible

## 1.6 Test standards

### ETSI EN 300 296-1 V1.1.1 (2001-03)

Electromagnetic compatibility and Radio spectrum Matters (ERM); Land mobile service.  
Technical characteristics and methods of measurements, radio equipment using integral antennas intended primarily for analogue speech.

### ETSI EN 300 086-1 V1.2.1 (2001-03)

## 2 Technical test

### 2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.

Remark:

The sample is equipped with an internal coax connector for testing purposes. So we made most of the measurements conducted with the limits of EN 300 086.

### 2.2 Test environment

#### Temperature

Normal test temperature (T<sub>nom</sub>) : +23 °C  
Extreme test temperatures (T<sub>max</sub>) : +55 °C  
(T<sub>min</sub>) : -20 °C

Relative humidity : 38%

#### Details of power supply

Normal test voltage (V<sub>nom</sub>) : 3,6V  
Extreme test voltage (V<sub>max</sub>) : 3,6V  
(V<sub>min</sub>) : 3,1V

Measured channels	Tx	Rx
(446,04375 MHz)	X	X

## 2.3 Test results

### LIST OF MEASUREMENTS

The list of parameters called for in ETSI EN 300296/300086 is given below.

Clause	Transmitter parameters	Performed	Page
5.1.1/8.1	Frequency error	<u>yes</u> /no	8
5.1.2/8.2	Effective radiated power (field strength)	<u>yes</u> /no	9
5.1.3/8.3	Frequency deviation	<u>yes</u> /no	10
5.1.4/8.4	Adjacent channel power	<u>yes</u> /no	12
5.1.5/8.5	Spurious emissions	<u>yes</u> /no	13
5.1.6/8.6	Transient frequency behaviour of the transmitter	<u>yes</u> /no	14
Clause	Receiver parameters		
5.2.1/9.1	Average usable sensitivity	<u>yes</u> /no	17
5.2.2/9.2	Amplitude characteristic of the receiver	<u>yes</u> /no	18
5.2.3/9.3	Co-channel rejection	<u>yes</u> /no	19
5.2.4/9.4	Adjacent channel selectivity	<u>yes</u> /no	20
5.2.5/9.5	Spurious response rejection	<u>yes</u> /no	21
5.2.6/9.6	Intermodulation response rejection	<u>yes</u> /no	22
5.2.7/9.7	Blocking or desensitisation	<u>yes</u> /no	23
5.2.8/9.8	Spurious radiations-(radiated)	<u>yes</u> /no	24