

FCC ID: KR55WK47993



EMISSION -- TEST REPORT

Test Report File No. : **T 22559-1-02 HU** Date of issue : September 23, 2002

Type Designation : 5WK4 7993

Kind of Product : Transmitter of a Keyless Entry System

Applicant : Siemens VDO Automotive AG

Manufacturer : Siemens VDO Automotive AG

Licence holder : Siemens VDO Automotive AG

Address : Siemensstrasse 12

D – 93055 Regensburg, Germany

Test result accdg. to the regulation(s) at page 3 :

Positive

This test report with attachment consists of **26** pages.

The test result only corresponds to the tested sample. It is not permitted to copy this report, in part or in full, without the permission of the test laboratory.

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TEST REGULATIONS

The tests were performed according to following regulations :

- o - EN 50081-1 / 2.1991
- o - EN 50081-2 / 7.1993

- o - EN 55011 / 3.1991

- o - Group 1
- o - class A
- o - Group 2
- o - class B

- o - EN 55014 / 4.1993

- o - Household appliances and similar
- o - tools
- o - Semiconductor devices

- o - EN 55014 / A2:1990
- o - EN 55104 / 5.1995

Category:

- o - EN 55015 / A1:1990
- o - EN 55015 / 12.1993

- o - EN 55022 / 5.1995

- o - class A
- o - class B

- o - prEN 55103-1 / 3.1995
- o - prEN 50121-3-2 / 3.1995
- o - EN 60601-1-2 / 4.1994

- o - VCCI

- o - class 1
- o - class 2

- o - Part 15 Subpart C (15.209)
- - Part 15 Subpart C (15.231)

ADDRESS OF THE TEST LABORATORY

■ - MIKES BABT PRODUCT SERVICE GmbH
Ohmstrasse 2-4
D - 94342 Strasskirchen

o - _____

ENVIRONMENTAL CONDITIONS

Temperature: 15-35 ° C

Humidity 45-60 %

Atmospheric pressure 860-1060 mbar

POWER SUPPLY SYSTEM UTILIZED

Power supply system	☐ 230V/50 Hz / 1 ϕ	☒ 3V DC
	☐ 400V/50 Hz 3PE	☐ 400V/50 Hz 3NPE

STATEMENT OF MEASUREMENT UNCERTAINTY

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report accdg. to NIS 81 /5.1994 „The Treatment of Uncertainty in EMC Measurements“ and is documented in the MIKES BABT Product Service quality system accdg. to EN 45001. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

SHORT DESCRIPTION OF THE EQUIPMENT UNDER TEST (EuT)

Transmitter of a Keyless Entry System for automobiles.

Number of received/tested samples: 1 / 1

Serial Number: Prototyp
Project: E60

DEFINITIONS FOR SYMBOLS USED IN THIS TEST REPORT

■ The black square indicates that the listed condition, standard or equipment is applicable for this report.

o Blank box indicates that the listed condition, standard or equipment was not applicable for this report.

MEASUREMENT PROTOCOL FOR FCC, VCCI AND AUSTEL

Test Methodology

Conducted and radiated emission testing is performed according to the procedures in International Special Committee on Radio Interference (CISPR) Publication 22 (1993), European Standard EN 55022 and Australian Standard AS 3548 (which are based on CISPR 22).

The Japanese standard, "Voluntary Control Council for Interference (VCCI) by Data Processing Equipment and Electronic Office Machines, Technical Requirements" is technically equivalent to CISPR 22 (1993). For official compliance, a conformance report must be sent to and accepted by the VCCI.

In compliance with FCC Docket 92-152, "Harmonization of Rules for Digital Devices Incorporate International Standards", testing for FCC compliance may be done following the ANSI C63.4-1992 procedures and using the FCC limits or the CISPR 22 Limits.

Measurement Uncertainty

The test system for conducted emissions is defined as the LISN, tuned receiver or spectrum analyzer, and coaxial cable. The test system for radiated emissions is defined as the antenna, the pre-amplifier, the spectrum analyzer and the coaxial cable. These test systems have a measurement uncertainty of ± 4.5 dB. The equipment comprising the test systems are calibrated on an annual basis.

Justification

The Equipment Under Test (EuT) is configured in a typical user arrangement in accordance with the manufacturer's instructions. A cable is connected to each available port and either terminated with a peripheral into its characteristic impedance or left unterminated. When appropriate, the cables are manually manipulated with respect to each other to obtain maximum emissions from the unit.

General Standard Information

The test methods used comply with CISPR Publication 22 (1993), EN 55022 (1987) and AS 3548 (1992) - "Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment" and with ANSI C63.4-1992 - "Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz."

For detailed description of each measurement please refer to section test results.

DISCOVERY OF WORST CASE MEASUREMENT CONDITION:

The Wireless Key 5WK4 7993 is designed for the operation at a fixed transmitter frequency of 315 MHz. To find out the worst case conditions for the complete measurement the following tests have been performed:

- Measurement of the radiated fieldstrength of the operating frequency measured in permanent operation mode in the specified channel. This measurement have been performed in order to find out the maximum transmitted fieldstrength of the wireless key.
- Measurement of the radiated spurious emissions measured in permanent operation mode in the specified channel. This measurement have been performed in order to find out the maximum spurious emissions of the wireless key.

Based on this test results, the measurements have been performed completely on the specified channel. This test results are documented in the following sections of the testreport.

TEST RESULT**CONDUCTED EMISSIONS - 10/150 kHz - 30 MHz**

■ - Test not applicable

Test location :

- o - Shielded room no. 1
- o - Shielded room no. 2
- o - Shielded room no. 3
- o - Shielded room no. 4
- o - Shielded room no. 5
- o - Shielded room no. 6
- o - Shielded room no. 7
- o - Anechoic chamber
- o - Full compact chamber

For test instruments and test accessories used please see attachment B A4

Description of Measurement

The final level, expressed in dB μ V, is arrived at by taking the reading directly from the EMI receiver. This level is compared directly to the FCC Limit or to the CISPR limit, which is equivalent to the Australian AS 3548 limit.

To convert between dB μ V and μ V, the following conversions apply:

$$\text{dB}\mu\text{V} = 20(\log \mu\text{V})$$

$$\mu\text{V} = \text{Inverse log}(\text{dB}\mu\text{V}/20)$$

Conducted emissions on the 50 Hz and/or 60 Hz power interface of the EuT are measured in the frequency range of 150 kHz to 30 MHz. The measurements are performed using a receiver, which has CISPR characteristic bandwidth and quasi-peak detection, and a Line Impedance Stabilization Network (LISN), with 50 Ω /50 μ H (CISPR 16) characteristics. Table top equipment is placed on a non-conducting table 80 centimeter's above the floor and is positioned 40 centimeter's from the vertical ground plane (wall) of the screen room. If the minimum passing margin appears to be less than 20 dB with a peak mode measurement, the emissions are remeasured using a tuned receiver with quasi-peak and average detection and recorded on the data sheets.

Test result:

The requirements are

o - MET

o - NOT MET

Min. limit margin

_____ dB at _____ MHz

Max. limit exceeding

_____ dB at _____ MHz

Remarks: Not applicable

SPURIOUS EMISSION

Spurious emissions from the EuT are measured in the frequency range of 9 kHz to 30 MHz using a tuned receiver and a shielded loop antenna. The antenna was positioned 3, 10 or 30 meters horizontally from the EuT. Measurements have been made in all three orthogonal axes and the shielded loop antenna was rotated to locate the maximum of the emissions.

Spurious emissions from the EuT are measured in the frequency range of 30 MHz to 10 times the highest used frequency using a tuned receiver and appropriate broadband linearly polarized antennas. Measurements between 30 MHz and 1000 MHz are made with 120 kHz/6 dB bandwidth and quasi-peak detection and measurements above 1000 MHz are made with a 1 MHz/6 dB bandwidth and peak detection, remeasurement of results which may be critical will be repeated in average mode. Table top equipment is placed on a 1.0 X 1.5 meter non-conducting table 80 centimetres above the ground plane. Floor standing equipment is placed directly on the turntable/ground plane. Interface cables that are closer than 40 centimetres to the ground plane are bundled in the center in a serpentine fashion so they are at least 40 centimetres from the ground plane. Cables to simulators/testers (if used in this test) are routed through the center of the table and to a screen room located outside the test area. The antenna was positioned 3, 10 or 30 meters horizontally from the EuT. To locate maximum emissions from the test sample the antenna is varied in height from 1 to 4 meters, measurement scans are made with both horizontal and vertical antenna polarization`s and the EuT are rotated 360 degrees.

SPURIOUS EMISSION (MAGNETIC FIELD) 9 kHz - 30 MHz**■ - Test not applicable**

- o - in a shielded room
- o - at a non - reflecting open-site and
- o - in a test distance of 3 meters.
- o - in a test distance of 30 meters.

For test instruments and test accessories used please see attachment B SER1

Description of Measurement

The final level, expressed in dB μ V/m, is arrived at by taking the reading from the EMI receiver (Level dB μ V) and adding the antenna correction factor and cable loss factor (Factor dB) to it. This result then has to be compared with the relevant FCC limit.

The resolution bandwidth during the measurement is as follows:

9 kHz – 150 kHz: ResBW: 200 Hz

150 kHz – 30 MHz: ResBW: 10 kHz

Example:

Frequency (MHz)	Level (dB μ V)	+	Factor (dB)	=	Level (dB μ V/m)	Limit (dB μ V/m)	=	Delta (dB)
1.705	5	+	20	=	25	30	=	5

Testresult in detail:

Frequency [MHz]	L: PK [dBµV]	L: AV [dBµV]	L: QP [dBµV]	Correct. [dB]	L: PK [dBµV/m]	L: AV [dBµV/m]	L: QP [dBµV/m]	Limit [dBµV/m]

The requirements are

o - MET**o - NOT MET**

Min. limit margin

_____ dB

_____ MHz

Min. limit margin

_____ dB

_____ MHz

Remarks: Not applicable

SPURIOUS EMISSIONS (electric field) 30 MHz - 1000 MHz

o - Test not applicable

Test location :

- - Open-site 1
- o - Open-site 2
- - 3 meters
- o - 10 meters
- o - 30 meters

For test instruments and test accessories used please see attachment B SER2

Description of Measurement

The final level, expressed in dBµV/m, is arrived by taking the reading from the EMI receiver (Level dBµV) and adding the correction factors and cable loss factor (Factor dB) to it. This is done automatically in the EMI receiver, where the correction factors are stored. This result then has the FCC or CISPR limit subtracted from it to provide the Delta which gives the tabular data as shown in the data sheets at page 24 - 25. The CISPR 22 limit is equivalent to the Australian AS 3548 limit.

Example:

Frequency (MHz)	Level (dBµV)	+	Factor (dB)	=	Level (dBµV/m)	Limit (dBµV/m)	=	Delta (dB)
719	75	+	32.6	=	107.6	110	=	-2.4

Testresult in detail:

Frequency [MHz]	L: PK [dBµV]	L: AV [dBµV]	L: QP [dBµV]	Correct. [dB]	L: PK [dBµV/m]	L: AV [dBµV/m]	L: QP [dBµV/m]	Limit [dBµV/m]
630.0	7.9	7.0	7.5	27.7	35.6	34.7	35.2	55.6

Test result:

The requirements are

■ - MET

o - NOT MET

Min. limit margin

20.4 dB

630.0 MHz

Min. limit margin

_____ dB

_____ MHz

Remarks: The limits are met.

SPURIOUS EMISSION 1 GHz - 18 GHz

o - Test not applicable

Testlocation :

- o - Open-site 1
- o - Open-site 2
- - Anechoic chamber
- o - Full compact chamber
- o - 1 meters
- - 3 meters
- o - 10 meters

For test instruments and test accessories used please see attachment B SER3

Description of Measurement

The final level, expressed in dB μ V/m, is arrived by taking the reading from the Spectrumalyzer in dB μ V and adding the correction factors of the test setup incl. cables.

Example of the correction value at 1.8 GHz

Level reading at 1.8 GHz	Correction EMCO 3115	correction Amplifier AWT 4534 + cable	Correction factor (summarized)	corrected level
56 dB μ V	+27.3 dB	-41.2 dB	-15.8 dB	42.1 dB μ V/m

Testresult in detail:

Frequency [MHz]	L: PK [dB μ V]	L: AV [dB μ V]	L: QP [dB μ V]	Correct. [dB]	L: PK [dB μ V/m]	L: AV [dB μ V/m]	L: QP [dB μ V/m]	Limit [dB μ V/m]
1258	65.9	53.2	-	-15.3	50.6	37.8	-	55.6
1571	63.2	48.9	-	-14.7	48.5	34.2	-	54.0
1889	51.4	43.3	-	-12.6	38.8	30.7	-	55.6
2202	61.3	47.3	-	-11.2	50.1	36.1	-	54.0
2510	55.2	46.0	-	-10.7	44.5	35.3	-	55.6
2833	51.2	43.2	-	-10.1	40.1	33.1	-	54.0
3150	53.4	44.0	-	-9.5	43.9	34.5	-	55.6

Testresult

The requirements are

■ - MET

o - NOT MET

Min. limit margin

7.7 dB

2202.0 MHz

Min. limit margin

_____ dB

_____ MHz

Remarks: The limits are kept.

The measurement was performed up to the 10th harmonic.

FIELD STRENGTH OF THE FUNDAMENTAL WAVE

o - Test not applicable

- - Open-site 1
- o - Open-site 2
- - 3 meters
- o - 10 meters
- o - 30 meters

For test instruments and test accessories used please see attachment B CPR2

Description of Measurement

The final level, expressed in dB μ V/m, is arrived by taking the reading from the EMI receiver (Level dB μ V) and adding the correction factors and cable loss factor (Factor dB) to it. This is done automatically in the EMI receiver, where the correction factors are stored. This result then has the FCC or CISPR limit subtracted from it to provide the Delta which gives the tabular data as shown in the data sheets at page 24 - 25. The CISPR 22 limit is equivalent to the Australian AS 3548 limit.

Example:

Frequency (MHz)	Level (dB μ V)	+	Factor (dB)	=	Level (dB μ V/m)	-	Limit (dB μ V/m)	=	Delta (dB)
315	45	+	22.5	=	67.5	-	74.3	=	-6.8

Testresult in detail:

Frequency [MHz]	L: PK [dB μ V]	L: AV [dB μ V]	L: QP [dB μ V]	Correct. [dB]	L: PK [dB μ V/m]	L: AV [dB μ V/m]	L: QP [dB μ V/m]	Limit [dB μ V/m]
315.0	55.6	55.5	52.6	15.5	71.1	71.0	68.1	75.6

Testresult

The requirements are

■ - MET

o - NOT MET

Min. limit margin

7.5 dB

315.0 MHz

Min. limit margin

_____ dB

_____ MHz

Remarks: The limits are kept.

CONDUCTED POWER OF THE FUNDAMENTAL WAVE MEASURED ON THE ANTENNA TERMINALS

☐ - Test not applicable

Testlocation :

- ☐ - Shielded room no. 1
- ☐ - Shielded room no. 2
- ☐ - Shielded room no. 3
- ☐ - Shielded room no. 4
- ☐ - Shielded room no. 5
- ☐ - Shielded room no. 6
- ☐ - Shielded room no. 7
- ☐ - Anechoic chamber
- ☐ - Full compact chamber
- ☐ - Climatic test chamber VLK

For test instruments and test accessories used please see attachment B CPC2

Description of Measurement

The conducted power of the fundamental wave measured on the antenna terminals in a climatic test chamber. The antenna jack was connected to the input of a communication test receiver. The internal batteries have been removed also and a variable DC power supply was used instead. The measurements have been made with the EuT unmodulated. During the test the supply voltage and the temperature were varied and applied simultaneously. The lower supply voltage was given by the manufacturer. In case the equipment was switching off before, the switch off voltage was used instead.

Testresult

The requirements are

o - MET

o - NOT MET

Frequency range of equipment								
Temperature °C	DC supply voltage V	Power dBm	Power dBm	Power dBm	Power dBm	Power dBm	Power dBm	Power dBm
-30								
-20								
-10								
0								
+10								
+20								
+30								
+40								
+50								

Remarks: Not applicable

EQUIPMENT UNDER TEST

Operation - mode of the EuT.:

The equipment under test was operated during the measurement under following conditions:

- ☐ - Standby
- ☐ - Test program (H - Pattern)
- ☐ - Test program (colour bar)
- ☐ - Test program (customer specific)

☒ - Transmit at the frequency 315 MHz

Configuration of the equipment under test: see attachment D

Following periphery devices and interface cables were connected during the measurement:

☐ - _____	Type : _____
☐ - _____	Type : _____
☐ - _____	Type : _____
☐ - _____	Type : _____
☐ - _____	Type : _____
☐ - _____	Type : _____

☐ - unshielded power cable

☐ - unshielded cables

☐ - shielded cables

MBPS.No.:

☐ - customer specific cables

☐ - _____

☐ - _____

SUMMARY

GENERAL REMARKS:

The wireless key 5WK4 7993 has been tested on the following frequency:
TX-Mode: 315 MHz

The unit measurements met also the bandwidth requirements.

The EuT complies with the requirements described under 15.231(a) regarding the activation/deactivation of the transmitter. The transmitter on time is smaller than 5 seconds after activation.

FINAL JUDGEMENT:

The requirements according to the technical regulations and tested operation modes are

■ - met.

o - **not** met.

The Equipment Under Test

■ - **Fulfils** the general approval requirements according to page 3.

o - **Does not** fulfil the general approval requirements according to page 3.

Date of receipt of test sample : accdg. to storage record of MBPS

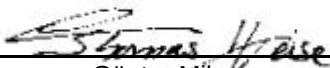
Testing Start Date : September 18, 2002

Testing End Date : September 19, 2002

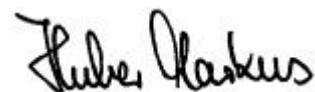
- MIKES BABT PRODUCT SERVICE GmbH -

Test engineer :

i. V.



Günter Mikes
Dipl.Ing.(FH)

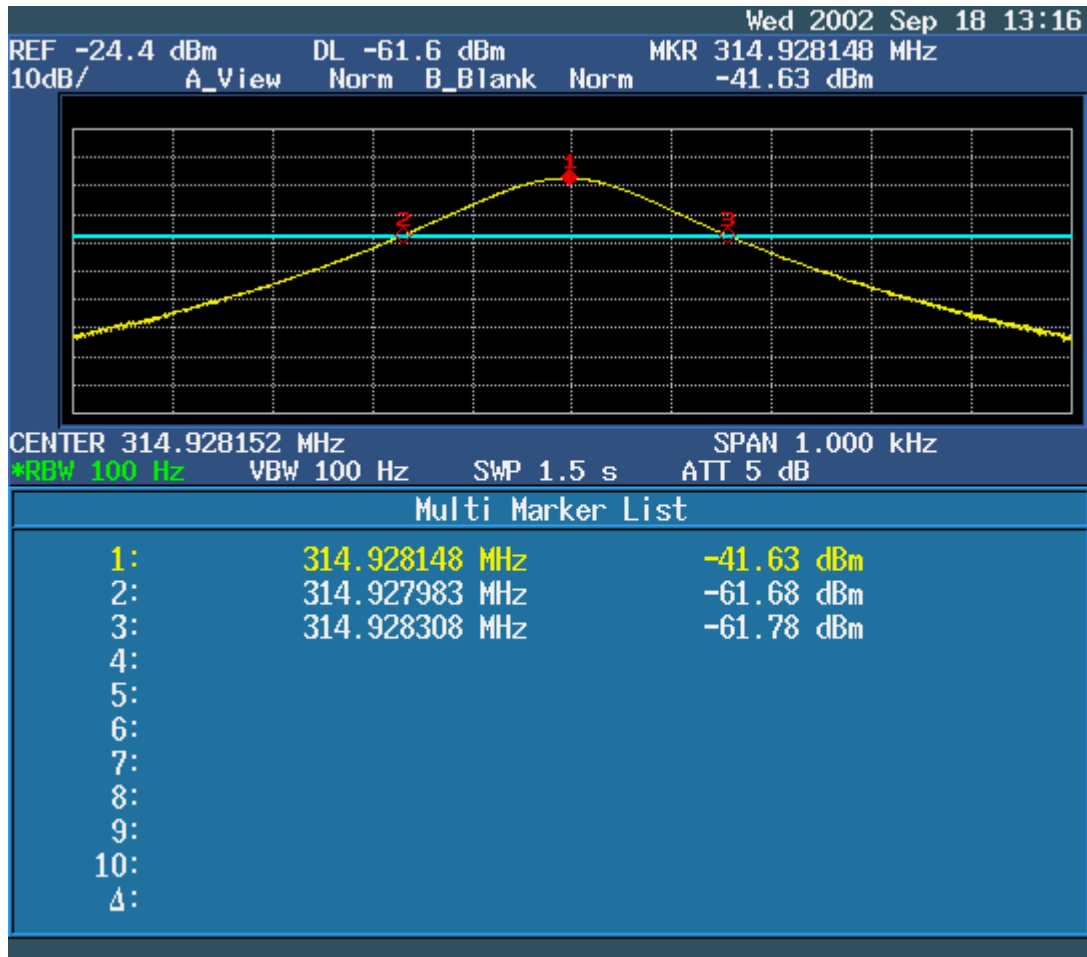


Huber Markus

Attachment A1

FCC ID:KR5WK47993

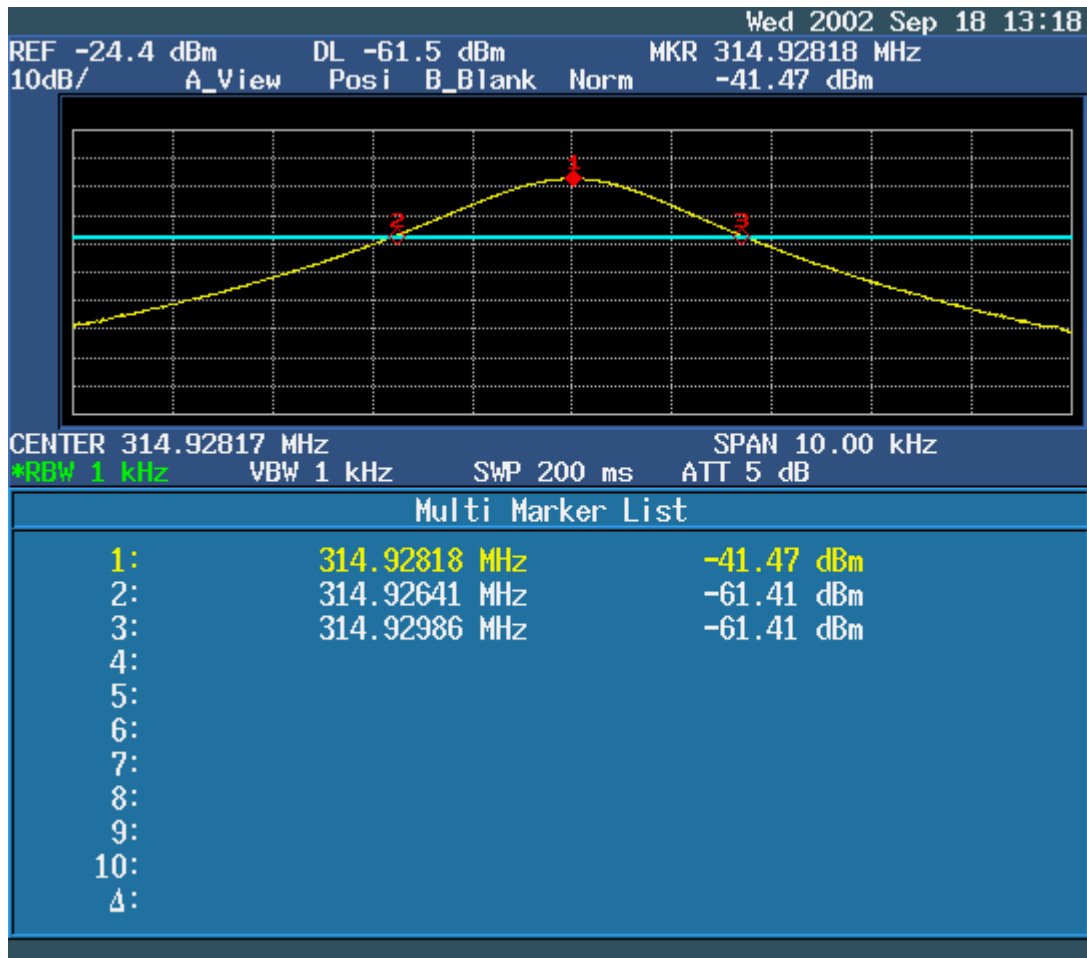
File No. T 22559-02 HU



Attachment A2

FCC ID:KR5WK47993

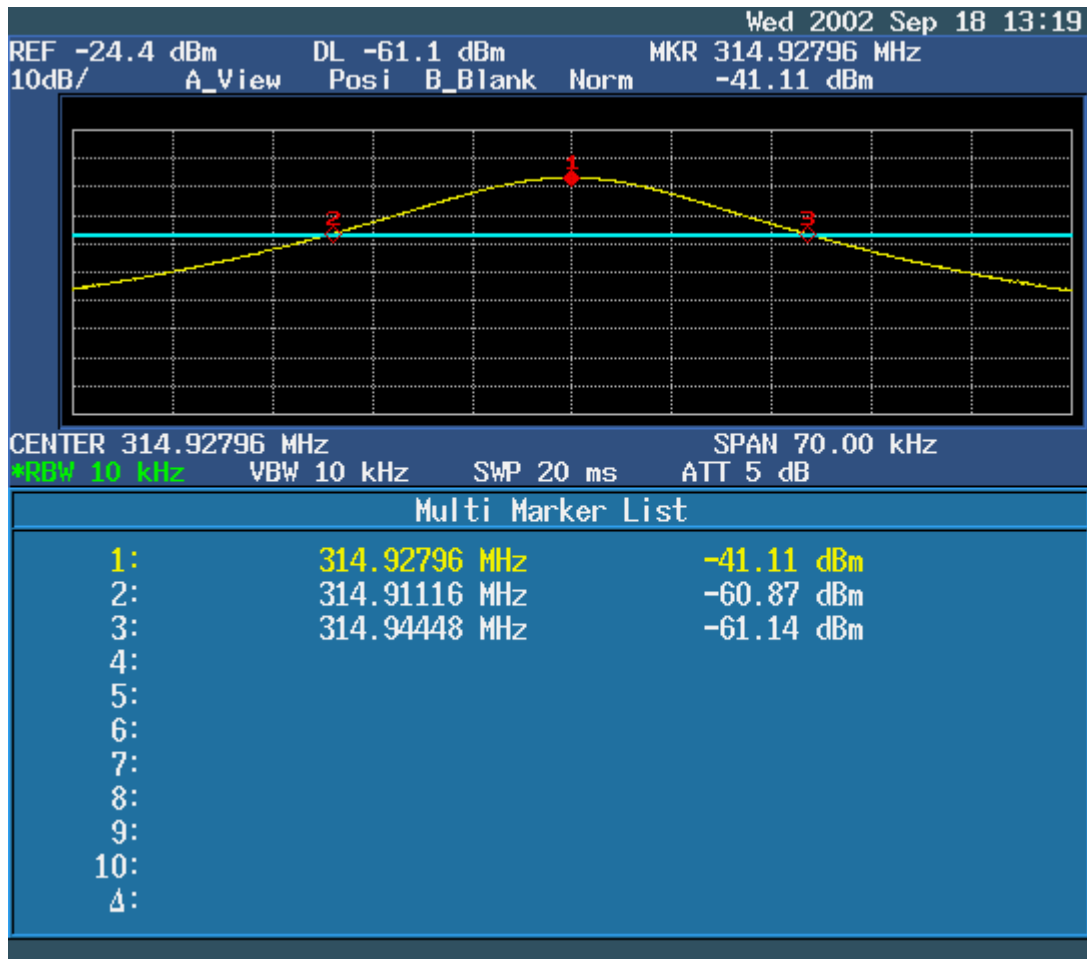
File No. T 22559-02 HU



Attachment A3

FCC ID:KR5WK47993

File No. T 22559-02 HU



Test Report No: T 22559-1-02 HU
Beginning of Testing: 18-September-2002

Attachment : B

List of Test Equipment

All test instruments used, in addition to the test accessories, are calibrated and verified regularly.

Test ID	Model Type	Kind of Equipment	Manufacturer	Equipment No.	Next Cal. Date
CPR2	Controller for Turntable	Controller	EMISYS Vertriebs GmbH	04-07/59-89-157	n/a
	HCC	Controller Ant.-Mast	Rohde & Schwarz München	04-07/59-97-001	n/a
	RG 214/U	RF Cable 2 m	Huber+Suhner	04-07/60-89-463	n/a
	HF 7/8 inch	Antenna Cable 13 m	Huber+Suhner	04-07/60-99-001	n/a
	HF 7/8 inch	Antenna Cable 20 m	Huber+Suhner	04-07/60-99-002	n/a
	HF 7/8 inch	Antenna Cable 40 m	Huber+Suhner	04-07/60-99-003	n/a
	KR - 200	Coax Antenna Switch	Rosenberger HF-Technik	04-07/60-99-004	n/a
	VULB - 9165	Super Broadband Antenna	Schwarzbeck Mess-Elektronik	04-07/62-00-001	10.03.2003
	ESVP	Test Receiver	Rohde & Schwarz München	04-07/63-89-008	18.02.2003
	ESVP-EZM	Spectrum Monitor	Rohde & Schwarz München	04-07/74-86-016	n/a
	Turntable 5 m	Turntable	EMISYS Vertriebs GmbH	04-07/92-88-155	n/a
	Antenna Mast	Antenna Mast	Rohde & Schwarz München	04-07/92-97-001	n/a
MB	UHF	Telescopic Rod Antenna	Conrad Elektronik GmbH	04-07/62-01-008	n/a
	R 3162	Spectrum Analyser	Advantest	04-07/74-00-001	13.03.2003
SER2	Controller for Turntable	Controller	EMISYS Vertriebs GmbH	04-07/59-89-157	n/a
	HCC	Controller Ant.-Mast	Rohde & Schwarz München	04-07/59-97-001	n/a
	RG 214/U	RF Cable 2 m	Huber+Suhner	04-07/60-89-463	n/a
	HF 7/8 inch	Antenna Cable 13 m	Huber+Suhner	04-07/60-99-001	n/a
	HF 7/8 inch	Antenna Cable 20 m	Huber+Suhner	04-07/60-99-002	n/a
	HF 7/8 inch	Antenna Cable 40 m	Huber+Suhner	04-07/60-99-003	n/a
	KR - 200	Coax Antenna Switch	Rosenberger HF-Technik	04-07/60-99-004	n/a
	VULB - 9165	Super Broadband Antenna	Schwarzbeck Mess-Elektronik	04-07/62-00-001	10.03.2003
	ESVP	Test Receiver	Rohde & Schwarz München	04-07/63-89-008	18.02.2003
	ESVP-EZM	Spectrum Monitor	Rohde & Schwarz München	04-07/74-86-016	n/a
	Turntable 5 m	Turntable	EMISYS Vertriebs GmbH	04-07/92-88-155	n/a
	Antenna Mast	Antenna Mast	Rohde & Schwarz München	04-07/92-97-001	n/a
SER3	Sucoflex 104, SMA	RF Cable 2 m	Huber+Suhner	04-07/60-97-485	n/a
	Sucoflex 104, N	RF Cable 3 m	Huber+Suhner	04-07/60-97-492	n/a
	Model 3115	Horn Antenna	EMCO Elektronik GmbH	04-07/62-96-458	n/a
	AWT-4534	Microwave Amplifier	TransTech Hochfrequenztechnik	04-07/66-90-217	n/a
	FSEM 30	Spectrum Analyser	Rohde & Schwarz München	04-07/74-97-001	05.02.2003

Attachment D: Constructional dataform for testing of radio equipment

Type designation: 5WK4 7993			
Name and type designation of individual units comprising the radio equipment:			
Type of equipment:			
☐ Radiotelephone equipment	☒ Remote-control equipment	☐ Radiomaritime equipment	☒ LPD
☐ One-way radiotelephone equipment	☐ Inductive loop system	☐ Inland waterways equipment	☐ RLAN
☐ Personal paging system	☐ Radio-relay system	☐ Radionavigation equipm.	☐
☐ Satellite earth station	☐ CB radiotelephone equipment	☐ Antenna	☐
☐ Data transmission equipment	☐ Movement detector	☐ Aeronautical equipment	☐
Technical characteristics:			
	Transmitter-receiver	Transmitter	Receiver
Frequency range		315 MHz $\pm 0.05\%$	
Maximum no. of channels		1	
Channel spacing		---	
Class of emission (type of modulation)		G1D	
Maximum RF output power		< 10mW	
Maximum effective radiated power (ERP)			
Output power variable		not applicable	
Channel switching frequency range		not applicable	
Method of frequency generation	☐ Synthesizer ☒ Crystal ☐ Other		
Frequency generation TX	Phase Locked Loop (PLL)		
Frequency generation RX			
IF	1st IF	2nd IF	3rd IF
Integral selective calling			
Audio-frequency interface level at external data socket			
Modes of operation	☐ Duplex mode ☐ Semi-duplex mode ☒ Simplex mode		
Power source	☐ Mains ☐ Vehicle-regulated ☒ Integral		
Antenna socket	☐ BNC ☐ TNC ☐ N ☐ M ☐ UHF ☐ Adapter ☒ None ☐		
Test specifications:			

Attachment D: Constructional dataform for testing of radio equipment

Declarations:

- We declare that the above information are correct and the named model was supplied with the maximum configuration to the accredited test laboratory.

Regensburg

09.09.2002

place of issue

_____, date _____

i.v. 

Seal and signature of applicant