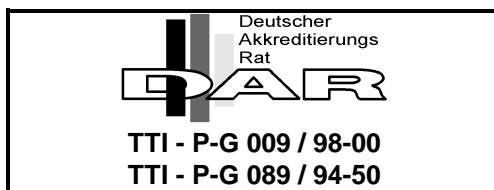


FCC ID: LTQTXF315P2



## EMISSION -- TESTREPORT

Testreport file no. : **T18048-1-00KG** Date : March 21, 2000  
of issue

Model : TXF315P2

Type : Transmitter of keyless entry system

Applicant : Delphi Automotive Systems Deutschland GmbH

Manufacturer : Delphi Automotive Systems Deutschland GmbH

Licence holder : Delphi Automotive Systems Deutschland GmbH

Address : Wiehlpuhl 4  
D-51766 Engelskirchen

**Test result** accrdg.  
to the regulation(s)  
at page 3

:

**POSITIVE**

This testreport with appendix consists of 33 pages.  
The testresult only responds to the tested sample. It is not allowed to copy  
this report even partly without the allowance of the testlaboratory.

File No. **T18048-1-00KG** , Page 1 of 17

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FCC ID: LTQTXF315P2

**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

- - Part 15 Subpart C (15.231)

**ADDRESS OF THE TEST LABORATORY**

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

○ - \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ENVIRONMENTAL CONDITIONS**

Temperature: 15-35 ° C  
Humidity 45-60 %  
Atmospheric pressure 860-1060 mbar

**POWER SUPPLY SYSTEM UTILIZED**

Power supply system : Battery Unom = 3 V DC

**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 that can account for a nominal measurement error of ±4dB. 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)**

The EUT is a transmitter of a keyless entry system. The key is for lock and unlock the doors and the trunk by remote control.

Number of received/tested samples: 2/2

**DEFINITIONS FOR SYMBOLS USED IN THIS TEST REPORT**

- - Black box indicates that the listed condition, standard or equipment is applicable for this Report.
- - Blank box indicates that the listed condition, standard or equipment was not applicable for this Report.

**M E A S U R E M E N T P R O T O C O L F O R F C C , V C C I**  
**A N D A U S T E L**

**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 Error**

The test system for conducted emissions is defined as the LISN, tuned receiver and coaxial cable. The test system for spurious emissions is defined as the antenna, the pre-amplifier, the tuned receiver and the coaxial cable. These test systems have an expected error of  $\pm 3$  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 testresults.

**DISCOVERY OF WORST CASE MEASUREMENT CONDITION:**

The Transmitter TXF315P2 is designed for the operation on the fixed transmitter frequency of approx. 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 chip card.
- 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 chip card.

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

**T E S T R E S U L T**

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

**■ - Test not applicable**

**Testlocation :**

- 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 EQUIPMENT USED please refer to ATTACHMENT B: \_\_\_\_\_

**Description of Measurement**

The final level, expressed in dBµV, 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 dBµV and µV, 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 quasipeak detection, and a Line Impedance Stabilization Network (LISN), with 50Ω /50 µH (CISPR 16) characteristics. Table top equipment is placed on a non-conducting table 80 centimeters above the floor and is positioned 40 centimeters 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 quasipeak and average detection and recorded on the data sheets.

**Testresult**

The requirements are	<b>O - MET</b>	<b>O - NOT MET</b>
Min. limit margin	_____ dB	at _____ MHz
Max. limit exceeding	_____ dB	at _____ MHz

Remarks: NOT APPLICABLE

**SPURIOUS EMISSION**

FCC ID: LTQTXF315P2

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 quasipeak 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 centimeters above the ground plane. Floor standing equipment is placed directly on the turntable/ground plane. Interface cables that are closer than 40 centimeters to the ground plane are bundled in the center in a serpentine fashion so they are at least 40 centimeters 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 polarizations and the EUT are rotated 360 degrees.

**SPURIOUS EMISSION (MAGNETIC FIELD) 10 kHz - 30 MHz**

**■ - Test not applicable**

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

For TEST EQUIPMENT USED please refer to ATTACHMENT B: \_\_\_\_\_

**Description of Measurement**

The final level, expressed in dBµV/m, is arrived at by taking the reading from the EMI receiver (Level dBµV) 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.

Example:

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



**Testresult in detail:**

Frequency MHz	L: QP dBµV	L: AV dBµV	Correct.	L: QP dBµV/m	L: AV dBµV/m	Limit dBµV/m

The requirements are

- MET

- NOT MET

Min. limit margin

\_\_\_\_\_ dB

\_\_\_\_\_ MHz

Max. limit margin

\_\_\_\_\_ dB

\_\_\_\_\_ MHz

Remarks: NOT APPLICABLE

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**SPURIOUS EMISSIONS (electric field) 30 MHz - 1000 MHz**

o - Test not applicable

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

For TEST EQUIPMENT USED please refer to 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	Level	+	Factor	=	Level	Limit	=	Delta
(MHz)	(dBµV)		(dB)		(dBµV/m)	(dBµV/m)		(dB)
719	75	+	32.6	=	107.6	110	=	-2.4

**Testresult in detail:**

Frequency MHz	L: QP dBµV	L: AV dBµV	Correct.	L: QP dBµV/m	L: AV dBµV/m	Limit dBµV/m
630.08	5.8		30.7	36.5		55.6
945.11	8.0		33.3	41.3		55.6

**Testresult**

The requirements are

■ - MET

○ - NOT MET

Min. limit margin

14.3 dB

at 945.11 MHz

Max. limit exceeding

           dB

at            MHz

Remarks: The limits are met.

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**SPURIOUS EMISSION 1 GHz - 18 GHz**

- Test not applicable

**Testlocation :**

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

For TEST EQUIPMENT USED please refer to ATTACHMENT B: SER3

**Description of Measurement**

The final level, expressed in dBµV/m, is arrived by taking the reading from the Spectrumalyzer in dBµV 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 dBµV	+27.3 dB	-41.2 dB	-15.8 dB	42.1 dBµV/m

**Testresult in detail:**

Frequency [MHz]	Reading AV [dBµV/m]	Reading PK [dBµV/m]	Korr [dB]	Final Result AV [dBµV/m]	Final Result PK [dBµV/m]	Limit AV [dBµV/m]	DLimit [dBµV/m]	Polarisation
1258	58.9	67.5	-15.5	43.4	52.0	55.6	12.2	Hor
1577	58.6	68.6	-15.0	43.7	53.6	54.0	10.3	Hor
1890	58.6	68.7	-12.8	45.8	55.9	55.6	9.8	Hor
2208	53.1	66.0	-11.2	41.8	54.8	54.0	12.2	Hor
2521	59.6	69.6	-10.5	49.1	59.1	55.6	6.5	Hor
2840	52.7	65.8	-10.1	42.6	55.7	54.0	11.4	Hor
3151	57.3	65.7	-9.4	47.9	56.3	55.6	7.7	Hor

The measurement was performed up to the 10<sup>th</sup> harmonic (3.152 GHz).

**Testresult**

The requirements are

■ - MET

○ - NOT MET

Min. limit margin

6.5 dB

at 2.521 GHz

Max. limit exceeding

         dB

at          GHz

Remarks: The limits are met.

\_\_\_\_\_

\_\_\_\_\_

**FIELD STRENGTH OF THE FUNDAMENTAL WAVE**

- Test not applicable

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

For TEST EQUIPMENT USED please refer to ATTACHMENT B: CPR2

**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)
315	45	+	22.5	=	67.5	-	74.3	=	-6.8

**Testresult in detail:**

Frequency MHz	L: QP dBµV	L: AV dBµV	Correct.	L: QP dBµV/m	L: AV dBµV/m	Limit dBµV/m
315.04	52.5		20.7	73.2		75.6

**Testresult**

The requirements are ■ - MET ○ - NOT MET

Min. limit margin 2.4 dB at 315.04 MHz

Max. limit exceeding \_\_\_\_\_ dB at \_\_\_\_\_ MHz

Remarks: The limits are met.

\_\_\_\_\_

\_\_\_\_\_

**CONDUCTED POWER OF THE FUNDAMENTAL WAVE MEASURED  
ON THE ANTENNA TERMINALS**

**■ - Test not applicable**

**Testlocation :**

- 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
- o - Climatic test chamber VLK

For TEST EQUIPMENT USED please refer to ATTACHMENT B: \_\_\_\_\_

**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:

- o - Standby
- o - Testprogram (H - Pattern)
- o - Testprogram (color bar)
- o - Testprogram (customer specific)
- - Transmit frequency 315 MHz
- o - \_\_\_\_\_
- o - \_\_\_\_\_

**Configuration of the equipment under test:**

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

- o - \_\_\_\_\_ Type : \_\_\_\_\_
- o - \_\_\_\_\_ Type : \_\_\_\_\_
- o - \_\_\_\_\_ Type : \_\_\_\_\_
- o - \_\_\_\_\_ Type : \_\_\_\_\_
- o - \_\_\_\_\_ Type : \_\_\_\_\_
- o - \_\_\_\_\_ Type : \_\_\_\_\_
  
- o - unshielded power cable
- o - unshielded cables
- o - shielded cables                      MPS.No.:
- o - customer specific cables (wireless microphone)
- o - \_\_\_\_\_
- o - \_\_\_\_\_



**SUMMARY**

**GENERAL REMARKS:**

The product TXF315P2 has been tested on the following frequency:  
TX-Mode: 315 MHz

The unit measurements meets 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.
- - **not** met.

The equipment under test

- - **Fulfills** the general approval requirements cited on page 3.
- - **Does not** fulfill the general approval requirements cited on page 3.


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

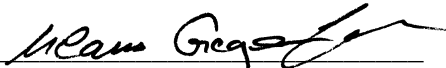
Testing Start Date : January 04, 2000

Testing End Date : January 04, 2000

- MIKES BAPT PRODUCT SERVICE GmbH -

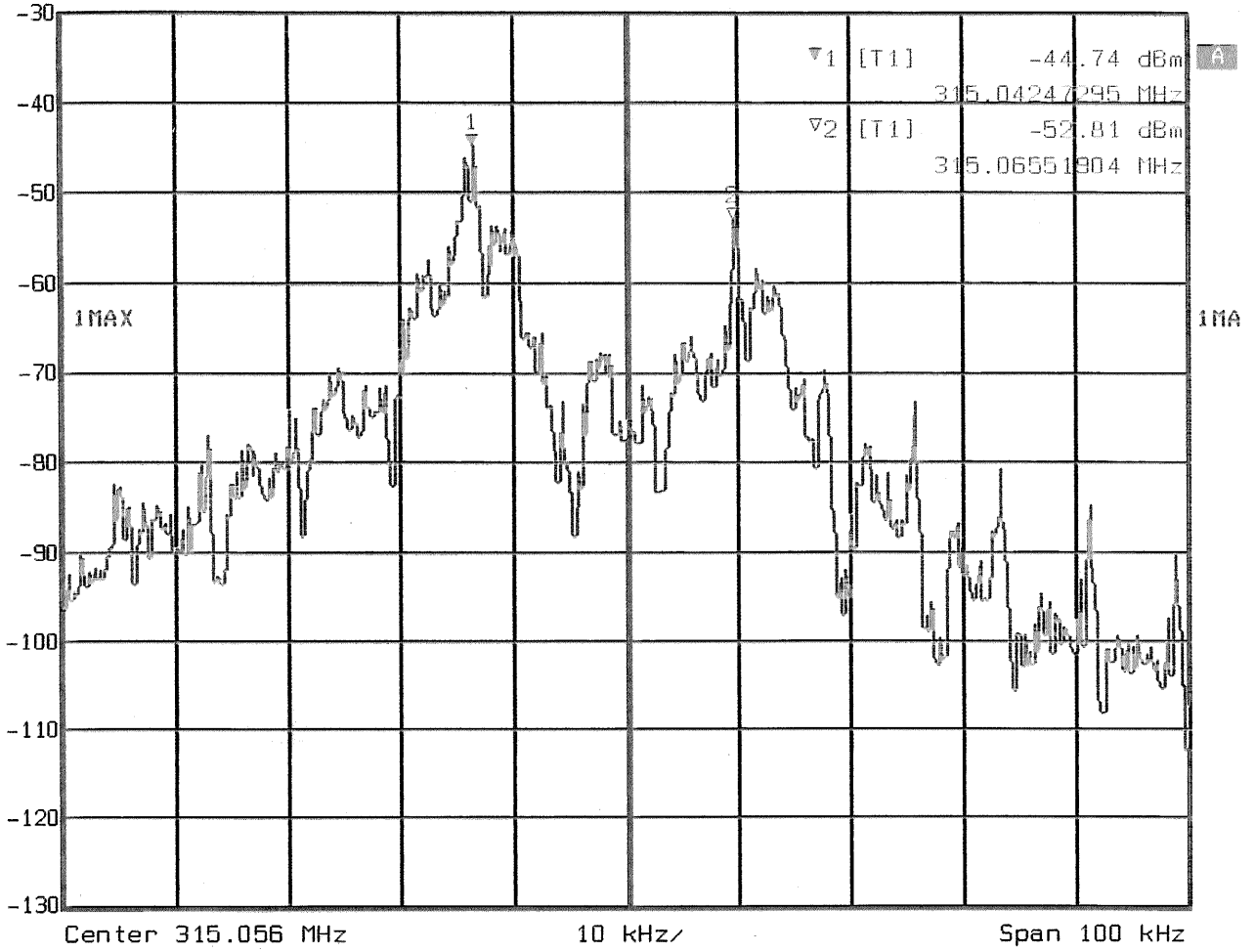
Test-engineer

  
\_\_\_\_\_  
Günter Mikes  
Dipl.-Ing.(FH)

  
\_\_\_\_\_  
Klaus Gegenfurtner  
Dipl. Ing.(FH)



Ref Lvl	Marker 1 [T1]	RBW	100 Hz	RF Att	0 dB
-30 dBm	-44.74 dBm	VBW	100 Hz		
	315.04247295 MHz	SWT	50 s	Unit	dBm



Date: 17.APR.2000 9:39:01

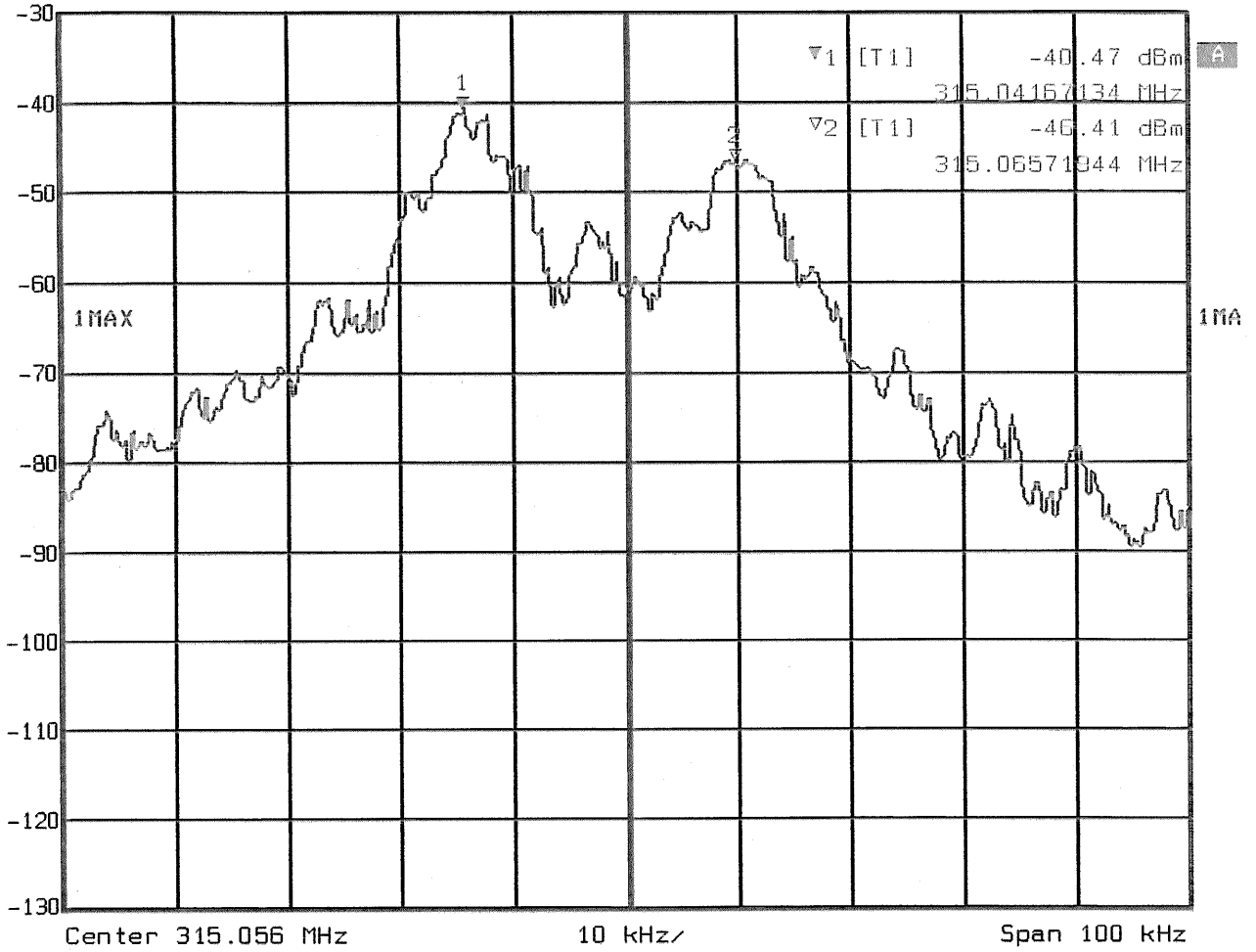


Ref Lvl  
-30 dBm

Marker 1 [T1]  
-40.47 dBm  
315.04167134 MHz

RBW 1 kHz  
VBW 1 kHz  
SWT 250 ms

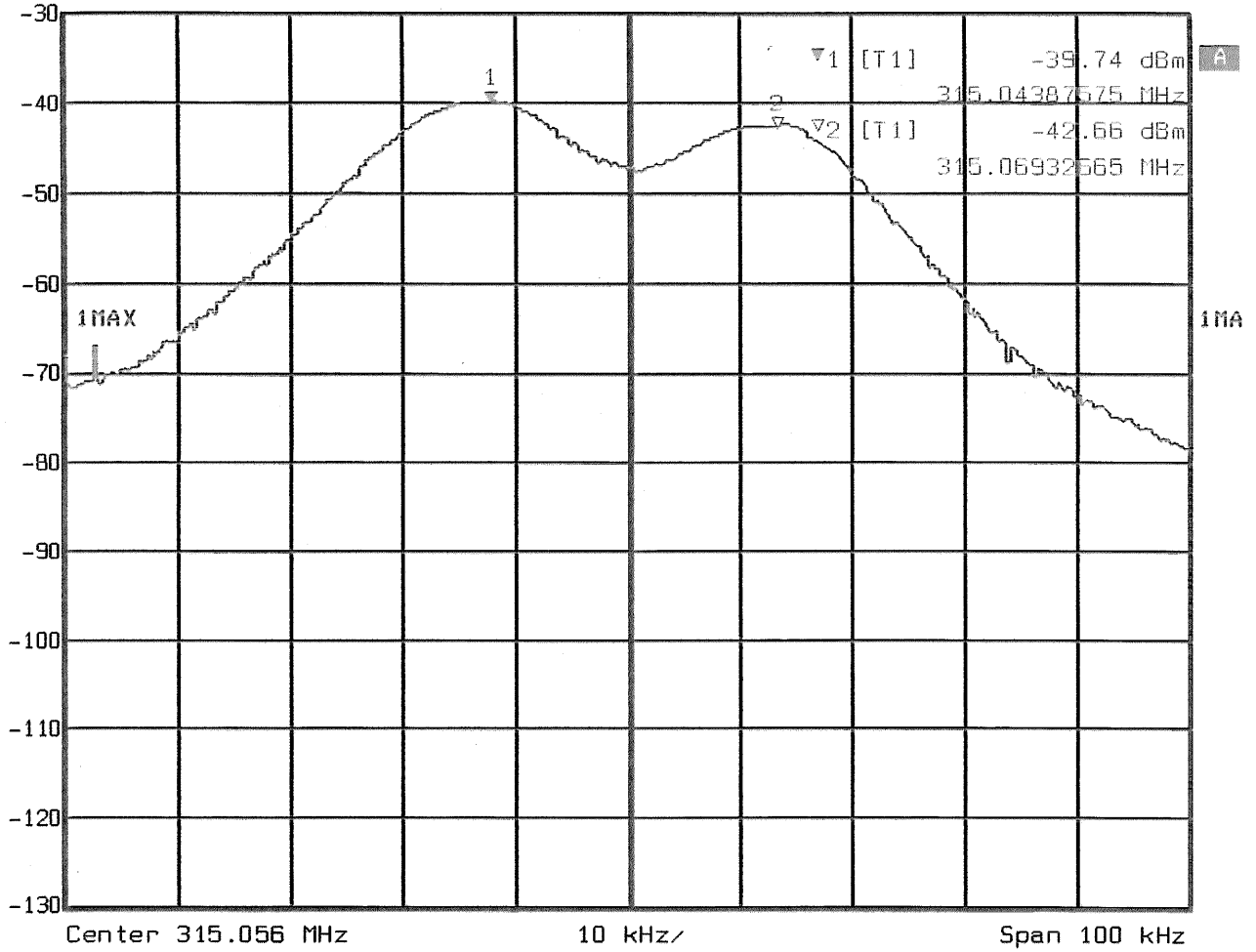
RF Att 0 dB  
Unit dBm



Date: 17.APR.2000 9:45:09



Ref Lvl	Marker 1 [T1]	RBW	10 kHz	RF Att	0 dB
-30 dBm	-39.74 dBm	VBW	10 kHz		
	315.04387575 MHz	SWT	15 ms	Unit	dBm



Date: 17.APR.2000 9:49:24

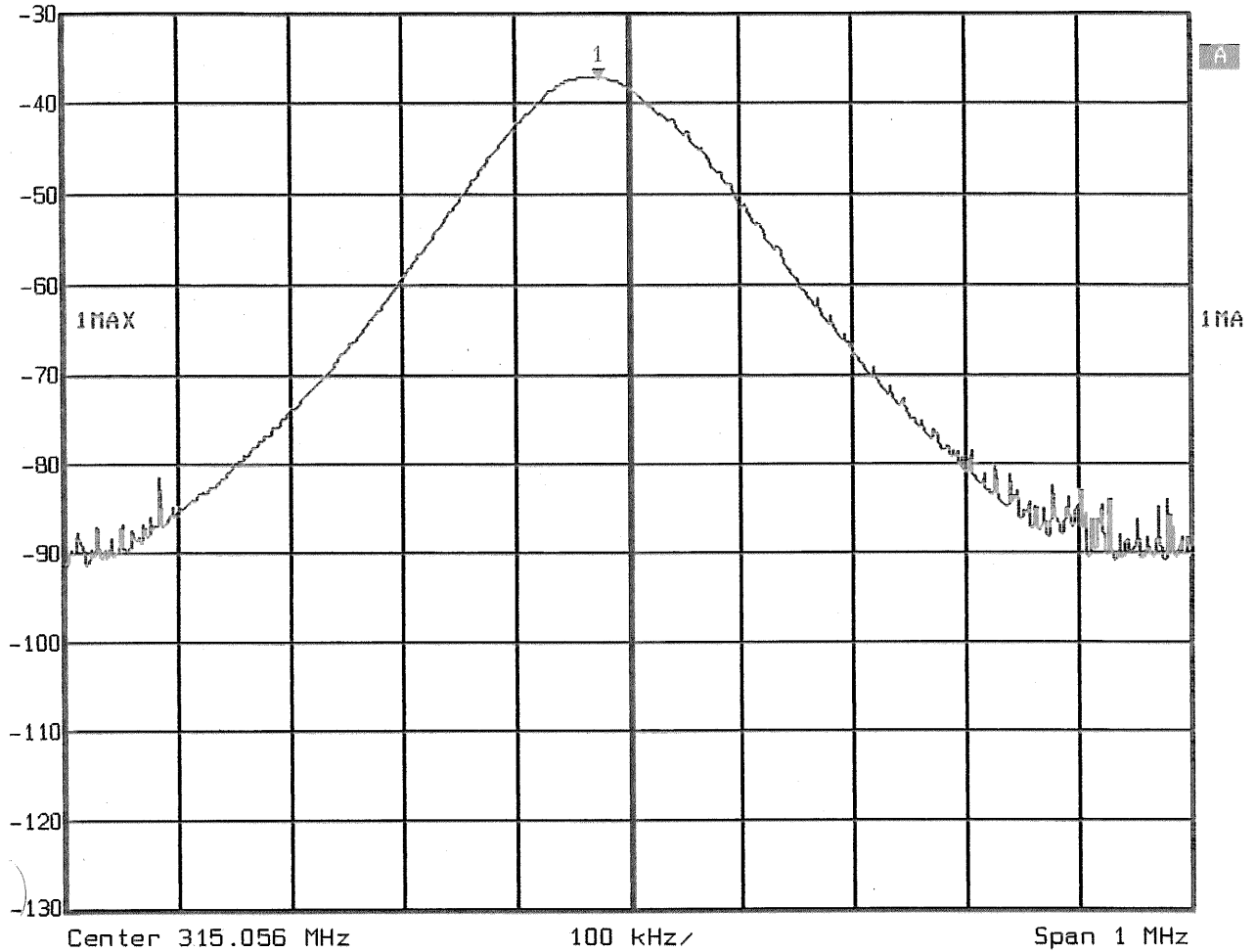


Ref Lvl  
-30 dBm

Marker 1 [T1]  
-37.15 dBm  
315.03094990 MHz

RBW 100 kHz  
VBW 100 kHz  
SWT 5 ms

RF Att 0 dB  
Unit dBm



Date: 17.APR.2000 9:52:22

**Attachment : B****List of Test Equipment**

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

Test Report No: T 18048-1-00 KG

Beginning of Testing: 04-Januar-2000

Test ID	Model Type	Kind of Equipment	Manufacturer	Equipment No.
CPR2	BBA-9106	Antenna	Schwarzbeck G.	04-07/62-92-048
	UHALP-9108A	Antenna	Schwarzbeck G.	04-07/62-97-009
	ESVP	Test Receiver	Rohde & Schwarz	04-07/63-89-008
MB	433 MHz-Antenna	Rod Antenna	MIKES PRODUCT SERVICE	04-07/62-97-002
	FSEM 30	Spectrum Analyser	Rohde & Schwarz	04-07/74-97-001
SER2	BBA-9106	Antenna	Schwarzbeck G.	04-07/62-92-048
	UHALP-9108A	Antenna	Schwarzbeck G.	04-07/62-97-009
	ESVP	Test Receiver	Rohde & Schwarz	04-07/63-89-008
SER3	Sucoflex 104, SMA	RF-cable 2 m	Huber+Suhner	04-07/60-97-485
	Sucoflex 104, N	RF-cable 3 m	Huber+Suhner	04-07/60-97-492
	Model 3115	Hornantenna	EMCO Elektronik GmbH	04-07/62-96-458
	AWT-4534	Microwave-Amplifier	TransTech Hochfrequenztechn	04-07/66-90-217
	FSEM 30	Spectrum Analyser	Rohde & Schwarz	04-07/74-97-001

## CONSTRUCTIONAL DATAFORM FOR TESTING OF RADIO EQUIPMENT

Licence holder:	Delphi Automotive Systems Deutschland GmbH		
Address:	Wiehlpuhl 4, 51766 Engelskirchen		
Manufacturer:	Delphi Automotive Systems Deutschland GmbH		
Address:	Wiehlpuhl 4, 51766 Engelskirchen		
Type:	Transmitter of keyless entry system		
Model:	TXF315P2		
Serial-No.:		Protection class:	

**Additional informations to the above named model:**

<b>Antenna:</b> transmitter:	Type: Loop		
	Length/size: 10mm x 20mm		
receiver:	Type:		
	Length/size:		
<b>Power supply of the transmitter:</b> Type:	<u>Lithium Battery</u>	nominal voltage:	<u>3 V</u>
		lowest voltage:	<u>V</u>
		highest voltage:	<u>V</u>
<b>Power supply of the receiver:</b> Type:		nominal voltage:	<u>V</u>

**Ancillary equipment:**

Description: _____	Type: _____	Serial-no.: _____
Description: _____	Type: _____	Serial-no.: _____
Description: _____	Type: _____	Serial-no.: _____

**Extreme temperature range in which the approval test should be performed:**

- Category I: General (-20°C to +55°C)
- Category II: Portable (-10°C to +55°C)
- Category III: Equipment for normal indoor use (0°C to +55°C)

**Connectable cables:**

Name of the cable	Digital	Length/m	shielded
	O yes O no		O yes O no
	O yes O no		O yes O no
	O yes O no		O yes O no
	O yes O no		O yes O no
	O yes O no		O yes O no

**O If applicable, if necessary complete overleaf**

Page D1

<b>Type designation:</b> TXF315P2			
<b>Name and type designation of individual units comprising the radio equipment:</b>			
<b>Type of equipment:</b>			
<input type="checkbox"/> Radiotelephone equipment	<input checked="" type="checkbox"/> Remote-control equipment	<input type="checkbox"/> Radiomaritime equipment	<input type="checkbox"/> LPD
<input type="checkbox"/> One-way radiotelephone equipment	<input type="checkbox"/> Inductive loop system	<input type="checkbox"/> Inland waterways equipment	<input type="checkbox"/> RLAN
<input type="checkbox"/> Personal paging system	<input type="checkbox"/> Radio-relay system	<input type="checkbox"/> Radionavigation equipm.	<input type="checkbox"/>
<input type="checkbox"/> Satellite earth station	<input type="checkbox"/> CB radiotelephone equipment	<input type="checkbox"/> Antenna	<input type="checkbox"/>
<input type="checkbox"/> Data transmission equipment	<input type="checkbox"/> Movement detector	<input type="checkbox"/> Aeronautical equipment	<input type="checkbox"/>
<b>Technical characteristics:</b>			
	Transmitter-receiver	Transmitter	Receiver
Frequency range		315.0 MHz	
Maximum no. of channels		1	
Channel spacing		/	
Class of emission (type of modulation)		80K0F1D	
Maximum RF output power			
Maximum effective radiated power (ERP)		<1mW	
Output power variable		No	
Channel switching frequency range		/	
Method of frequency generation	<input type="checkbox"/> Synthesizer <input type="checkbox"/> Crystal <input checked="" type="checkbox"/> Other		
Frequency generation TX	SAW		
Frequency generation RX			
IF	1st IF	2nd IF	3rd IF
Integral selective calling			
Audio-frequency interface level at external data socket			
Modes of operation	<input type="checkbox"/> Duplex mode <input type="checkbox"/> Semi-duplex mode <input checked="" type="checkbox"/> Simplex mode		
Power source	<input type="checkbox"/> Mains <input type="checkbox"/> Vehicle-regulated <input checked="" type="checkbox"/> Integral		
Antenna socket	<input type="checkbox"/> BNC <input type="checkbox"/> TNC <input type="checkbox"/> N <input type="checkbox"/> M <input type="checkbox"/> UHF <input type="checkbox"/> Adapter <input checked="" type="checkbox"/> None <input type="checkbox"/> <input type="checkbox"/>		
<b>Test specifications:</b> FCC Part 15.231			

O If applicable, if necessary complete overleaf

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**Declarations:**

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

Wiehl  
place of issue

12.01.2000  
date

  
Seal and signature of applicant

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Body & Security Electronics  
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