

#### Radiated power of the fundamental wave 5.2

For test instruments and accessories used see section 6 Part CPR 2.

## **Description of the test location**

Test location: OATS1

Test distance: 3 metres

## 5.2.2 Photo documentation of the test set-up





# 5.3 Radiated emissions (electric field) 30 MHz - 18 GHz

For test instruments and accessories used see section 6 Part SER 2, SER 3.

## 5.3.1 Description of the test location

Test location: OATS1

Anechoic Chamber A2

Test distance: 3 metres

## 5.3.2 Photo documentation of the test set-up





mikes-testingpartners gmbh Ohmstrasse 2-4 · 94342 Strasskirchen Tel.:+49(0)9424-94810 · Fax:+49(0)9424-9481240 File No. T30529-08-01HU, page 13 of 29

Rev. No. 1.1



## 5.4 Correction for Pulse Operation (Duty Cycle)

For test instruments and accessories used see section 6 Part DC.

### 5.4.1 Description of the test location

Test location: AREA4

### 5.4.2 Photo documentation of the test set-up



### 5.4.3 Description of Measurement

The Duty cycle factor, expressed in dB, is arrived by taking the following formula:  $KE=20 \log \left[ (t_{iB}*p)/T_{w} \right]$ 

KE: pulse operation correction factor [dB]

tiw pulse duration for one complete pulse track [msec]

tiB pulse duration for one pulse [μsec]
Tw a period of the pulse track [msec]
p number of pulses in one train

## 5.4.4 Test result

Duty cycle	t <sub>iw</sub> [msec]	Tw [msec]	tів [msec]	р	KE [dB / %]
Real Duty cycle					
Within 100 msec		100	10.25	1	-19.78 / 10.25

**Remarks:** The pulse train [Tw] exceeds 100 ms, therefore the duty cycle have been calculated by averaging

the sum of the pulsewidths over the 100 ms width with the highest average value.

For detailed results, please see the test protocol below.

File No. **T30529-08-01HU**, page **17** of **29** 



#### **Emission Bandwidth** 5.5

For test instruments and accessories used see section 6 Part MB.

#### 5.5.1 **Description of the test location**

Test location: AREA4

### 5.5.2 Photo documentation of the test set-up



#### 5.5.3 **Test result**

Fundamental	20dB	20dB	Measured	LIMIT
[MHz]	Bandwidth	Bandwidth	Bandwidth	Fundamental
	F1	F2	[kHz]	f*0,0025
	[MHz]	[MHz]		[kHz]
315.0	314.9469	315.0450	98.1	787.5

Limit according to FCC Part 15 Subpart 15.231(c):

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. Bandwidth is determined at the points 20 dB down from the modulated carrier.

The requirements are **FULFILLED**.

Remarks:	For detailed results, please see the test protocol below.		



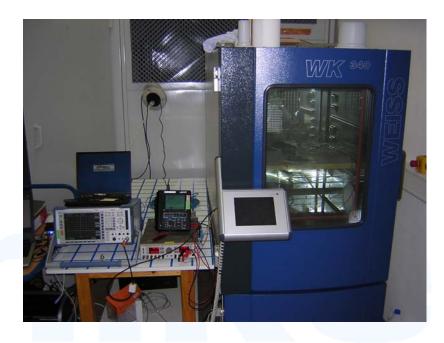
## 5.6 Signal deactivation

For test instruments and accessories used see section 6 Part MB.

### 5.6.1 Description of the test location

Test location: AREA4

### 5.6.2 Photo documentation of the test set-up



### 5.6.3 Test result

The duration of the transmission is 10.3 milliseconds each time the Trigger Transmitter TSSTSc triggered the EuT which meets the requirement of ceasing transmission within 5 seconds.

Limit according to FCC Part 15 Subpart 15.231(a):

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released and a transmitter activated automatically shall cease transmission within 5 seconds after activation.

The requirements are **FULFILLED**.

Remarks:	For detailed test results, please see the test protocol below.		



# 6.2 Radiated emissions (electric field)

For test instruments and accessories used see section 6 Part SER 1.

## 6.2.1 Description of the test location

Test location: OATS1

## 6.2.2 Photo documentation of the test set-up

