



# montena

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Title: **Amendment to Report 12'596 :**  
Titre: **Emission measurements from 1 to 25 GHz**  
Titel:

Date of test:  
Date de l'essai: **April 2<sup>nd</sup>, 2001**  
Prüfdatum:

Customer:  
Client: **Baumer Electric AG**  
Kunde:

Test place: **montena emc sa**  
Lieu de l'essai: **CH-1728 Rossens**  
Prüfort:

Test performed by  
Essai effectué par :  
Prüfer

Mr Manfred Portmann

Test report prepared by  
Rapport d'essai préparé par :  
Berichterstatter

Mr Erich Staub

Test report controled and approved by  
Rapport d'essai contrôlé et approuvé par :  
Prüfbescheinigung

Mr Erich Staub

Rossens, 2001-04-2

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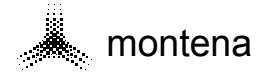
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Emission measurements from 1 to 25 GHz**

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## 1. Introduction

This amendment replaces the pages 7.6 to 7.17 of the test report 12'596.

The equipment was tested in the frequency range from 1 to 25 GHz according to the following paragraphs of FCC Part 15 :

§ 15.205

§ 15.209

§ 15.249

## 2. Persons present

### Test Engineer:

*Mr Manfred Portmann*

### Other(s):

Name

Company

*Mr Reto Peter*

*Baumer Electric AG*

## 3. List of test equipment

Type	Identification
Spectrum analyser	HP 8562A
Horn antenna	EMCO 3115
Horn antenna	EMCO 3160-09
Harmonic mixer	HP 11970K 18 – 26.5 GHz

**4. Measurements according to § 15.249**

Harmonic	Distance [m]	Meas. Hor. [dB $\mu$ V] Peak	Meas. Vert [dB $\mu$ V] Peak	Ant. fact [dB/m]	Comp. Hor. at 3m [dB $\mu$ V/m]	Comp. Vert. at 3m [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Pass
1 (carrier)	3	64	63.3	29.4	93.4	92.7	94	OK
2	1	13.8	14.0	34.5	38.3	38.5	54	OK
3	1	20.0	22.7	37.0	47.0	49.7	54	OK
4	1	18.7	18.4	38.4	47.1	46.8	54	OK
5	1	22.2	21.4	39.2	51.4	50.6	54	OK
6	0.3	27.7	27.2	41.3	49.0	48.5	54	OK
7	0.3	27.6	26.9	42.5	50.1	49.4	54	OK
8	0.3	27.1	27.3	40.3	47.4	47.6	54	OK
9	0.3	26.4	27.1	40.3	46.7	47.4	54	OK
10	0.3	27.4	27.2	40.3	47.7	47.5	54	OK

Table 1

**5. Measurements according to § 15.205**

From 1 to 25 GHz no other emission was found exceeding the values in table 1. The emissions in the restricted band are lower than the limits of FCC § 15.209 (= 54 dB $\mu$ V/m).

**6. Measurements according to § 15.209**

From 1 to 25 GHz no other emission was found exceeding the values in table 1. The emissions are lower than the limits of FCC § 15.209 (= 54 dB $\mu$ V/m).