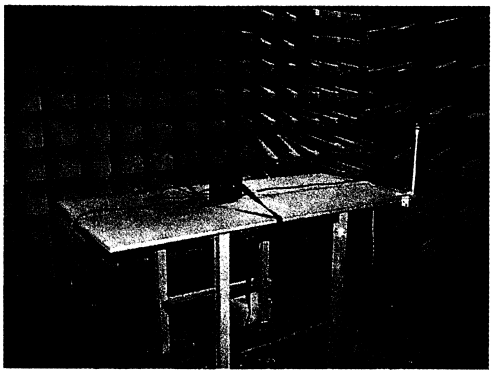
Radiated emission measurement on Receiver part according to 15.109 a)

Date	Temperature	Humidity
24 November, 1998	22 °C ± 3 °C	23 % ± 5 %

Test set-up and Procedure

The test of radiated emission was performed in the fully anechoic chamber at SP. The EUT was measured in 8 perpendicular directions. In the frequency range 30-1000 MHz , a bilog antenna was used. In the frequency range 1-4.2 GHz, a horn antenna was used. The measurements were performed with both horizontal and vertical polarisation of the antenna. The antenna distance was 3 m and the antenna height 1.3 m. The measurement is first performed with peak detector. Emission on frequencies close to or above the limit is controlled with quasi-peak detector.

The test set-up during the test can be seen in the picture below.



Measurement equipment	SP number
Anechoic chamber	8:312
R&S ESAI	502 199
Compaq Presario	501 516
Software: R&S ES-K1, ver. 1.40c	
Chase Bilog antenna CBL 6121A	502 460
Testo 610, Temperature and humidity meter	502 658
EMCO 3115 Horn antenna	502 175
HP 8566B Spectrum analyser	501437
HP 85685A Preselector	501438
HP 85685A Quasipeak adapter	501 439
HP 9836CH Control computer	500 576
HP 85869A EMI measurement software	

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Result

The emission spectra can be found in the following enclosures:

Enclosure 6.3: 30-1000 MHz
Enclosure 6.4: 1-4.2 GHz Horizontal polarisation
Enclosure 6.5: 1-4.2 GHz Vertical polarisation

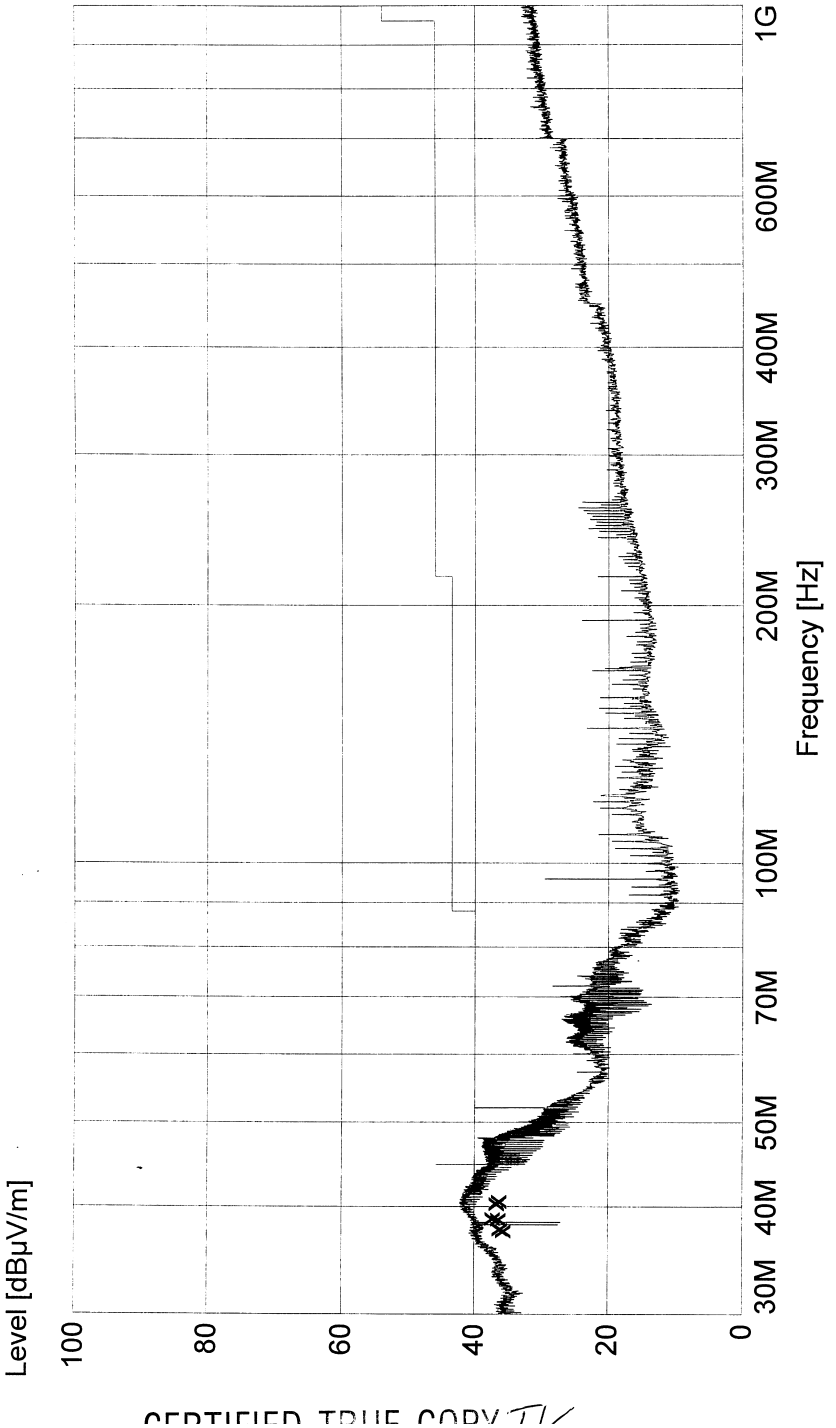
The emission found during the measurements with the quasi-peak detector (represented by the "**X**" in emission spectra) can be found in the following table:

Frequency (MHz)	Amplitude (dBµV/m)	Limit (dBµV/m)	Compliant
37.416	35.9	40	Yes
37.572	36.5	40	Yes
38.604	36.7	40	Yes
38.676	37.5	40	Yes
40.212	37.0	40	Yes
40.476	36.6	40	Yes

Limits

According to table in 15.109 a , the field strength shall be:
Below 40 dBµV/m in the frequency range 30-88 MHz
Below 43.5 dBµV/m in the frequency range 88-216 MHz
Below 46 dBµV/m in the frequency range 216-960 MHz
Below 54 dBµV/m in the frequency range above 960 MHz

Emission below limit?	Yes



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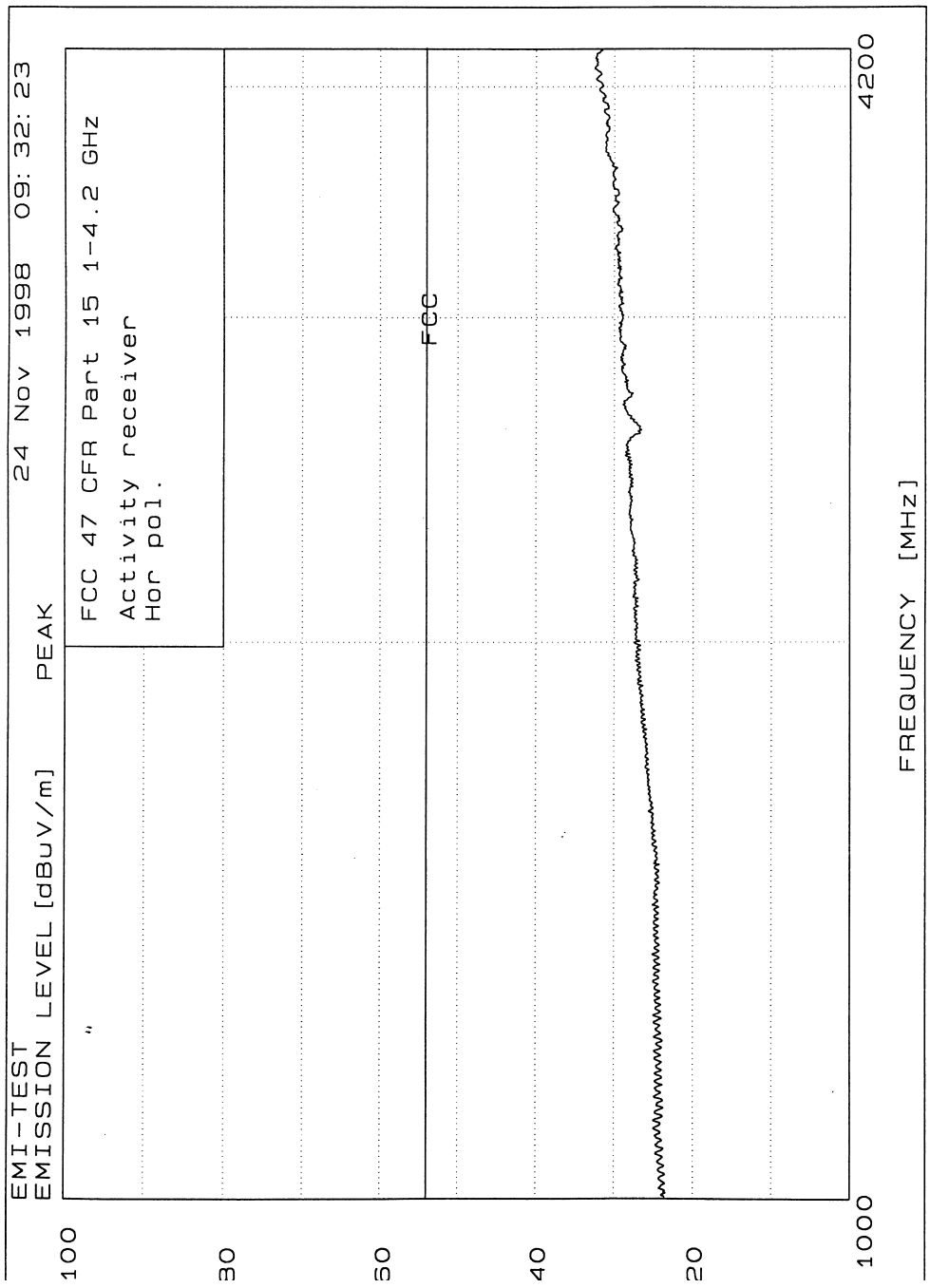

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