



## Accredited testing-laboratory

**DAR registration number: DAT-P-176/94-D1**

**Federal Motor Transport Authority (KBA)  
DAR registration number: KBA-P 00070-97**

**Recognized by the Federal Communications Commission**

**Anechoic chamber registration no.: 90462 (FCC)**

**Anechoic chamber registration no.: 3463A-1 (IC)**

**Certification ID: DE 0001**

**Accreditation ID: DE 0002**

**Accredited Bluetooth® Test Facility (BQTF)**

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**Test report no. : 2-4833-01-05/07**  
**Type identification : VMX Office**  
**Applicant : Sennheiser Communications A/S**  
**FCC ID : DMOCBBDBA**  
**IC Certification No : 2099D-VM10**  
**Test standards : 47 CFR Part 15**  
**RSS - 210 Issue 7**

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## 1 General information

### 1.1 Notes

The test results of this test report relate exclusively to the test item specified in 3.1.1. The CETECOM ICT Services GmbH does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM ICT Services GmbH.

**Test laboratory manager:**

2008-03-31      Stefan Bös

Date

Name

Signature



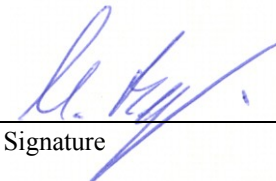
**Technical responsibility for area of testing:**

2008-03-31      Michael Berg

Date

Name

Signature



## 1.2 Testing laboratory

**CETECOM ICT Services GmbH**

Untertürkheimer Straße 6 - 10

66117 Saarbrücken

Germany

Phone: + 49 681 5 98 - 0

Fax: + 49 681 5 98 - 9075

e-mail: info@ICT.cetecom.de

Internet: http://www.cetecom-ict.de

**State of accreditation:** The test laboratory (area of testing) is accredited according to  
DIN EN ISO/IEC 17025  
DAR registration number: DAT-P-176/94-D1

**Accredited by:** Federal Motor Transport Authority (KBA)  
DAR registration number: KBA-P 00070-97

**Testing location, if different from CETECOM ICT Services GmbH:**

**Name :**  
**Street :**  
**Town :**  
**Country :**  
**Phone :**  
**Fax :**

## 1.3 Details of applicant

<b>Name:</b>	Sennheiser Communications A/S
<b>Street:</b>	6 Langager
<b>Town:</b>	2680 Solrod Strand
<b>Country:</b>	Denmark
<b>Telephone:</b>	+45 (0) 56 18 00 00
<b>Fax:</b>	+45 (0) 56 18 00 93
<b>Contact:</b>	Edina Mujan
<b>E-mail:</b>	EMujan@sennheisercommunications.com
<b>Telephone:</b>	+45 (0) 56 18 00 00

## 1.4 Application details

<b>Date of receipt of order:</b>	2008-03-14
<b>Date of receipt of test item:</b>	2008-03-14
<b>Date of start test:</b>	2008-03-17
<b>Date of end test:</b>	2008-03-20
<b>Persons(s) who have been present during the test:</b>	-/-

## 2 Test standard/s:

47 CFR Part 15	2007-09	Title 47 of the Code of Federal Regulations; Chapter I- Federal Communications Commission subchapter A - general, Part 15-Radio frequency devices
RSS - 210 Issue 7	2007-06	Spectrum Management and Telecommunications - Radio Standards Specification Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment

### 3 Technical tests

#### 3.1 Details of manufacturer

Name:	Sennheiser Communications A/S
Street:	6 Langager
Town:	2680 Solrod Strand
Country:	Denmark

##### 3.1.1 Test item

Kind of test item :	Art des Produktes/Projekttes
Type identification :	VMX Office
S/N serial number :	-
HW hardware status :	N/D
SW software status :	N/D
Frequency Band [MHz] :	ISM 2.400 - 2.483,5
Type of Modulation :	FHSS
Number of channels :	79
Antenna :	Integrated antenna
Power Supply :	6.0 V DC
Temperature Range :	0 °C to 40 °C

Max. power radiated: 8.30 dBm  
 Max. power conducted: 8.02 dBm

FCC ID: DMOCBBDBA  
 IC: 2099D-VM10

**3.1.2 Additional EUT information For IC Canada (appendix 2)**

IC Registration Number:	<b>2099D-VM10</b>
Model Name:	<b>VMX Office</b>
Manufacturer (complete Address):	<b>Sennheiser Communications A/S 6 Langager 2680 Solrod Strand Denmark</b>
Tested to Radio Standards Specification (RSS) No.:	<b>RSS-210 Issue 7</b>
Open Area Test Site Industry Canada Number:	<b>IC 3463A-1</b>
Frequency Range (or fixed frequency) [MHz]:	<b>2400 – 2483.5 MHz</b>
RF: Power [W] (max):	<b>Rad. EIRP: 6.8 mW Conducted : 6.3 mW</b>
Antenna Type:	<b>Integrated antenna</b>
Occupied Bandwidth (99% BW) [kHz]:	<b>920</b>
Type of Modulation:	<b>FSK</b>
Emission Designator (TRC-43):	<b>920KFXD</b>
Transmitter Spurious (worst case) [ $\mu$ V/m in 3m]:	<b>203</b>
Receiver Spurious (worst case) [ $\mu$ V/m in 3m]:	<b>195</b>

**ATTESTATION:**

I attest that the testing was performed or supervised by me; that the test measurements were made in accordance with the above-mentioned departmental standard(s), and that the radio equipment identified in this application has been subject to all applicable test conditions specified in the departmental standards and all of the requirements of the standards have been met.

Signature:



Test engineer: Stefan Bös

Date: 2008-03-31

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**3.1.3 RF Technical Brief Cover Sheet acc. To RSS-102**

1. COMPANY NUMBER:           **2099D**
2. MODEL NUMBER:           **VMX Office**
3. MANUFACTURER:           **Sennheiser Communications A/S**
4. TYPE OF EVALUATION:      **(c) RF Evaluation**

- Evaluated against exposure limits: General Public Use  Controlled Use
  - Duty cycle used in evaluation: 100 %
  - Standard used for evaluation: RSS-102 Issue 2 (2005-11)
  - Measurement distance: 0.2 m
  - RF value: 0.013 V/m  A/m  W/m<sup>2</sup>
- Measured  Computed  Calculated

**Declaration of RF Exposure Compliance**

**ATTESTATION:**

I attest that the information provided in this test report are correct; that a Technical Brief was prepared and the information it contains is correct; that the device evaluation was performed or supervised by me; that applicable measurement methods and evaluation methodologies have been followed and that the device meets the SAR and/or RF exposure limits of RSS-102.

Name:           Stefan Bös  
Title:           Dipl.-Ing (FH)  
Company:       Cetecom ICT Services GmbH





### 3.1.4 EUT operating modes

EUT operating mode no. *)	Description of operating modes	Additional information
Op. 0	Normal mode	Normal temperature and power source conditions
Op. 1		low temperature, low power source conditions
Op. 2		low temperature, high power source conditions
Op. 3		high temperature, low power source conditions
Op. 4		high temperature, high power source conditions

\*) EUT operating mode no. is used to simplify the test plan

### 3.1.5 Extreme conditions testing values

Description	Shortcut	Unit	Value
Nominal Temperature	T <sub>nom</sub>	°C	<b>23</b>
Nominal Humidity	H <sub>nom</sub>	%	<b>56</b>
Nominal Power Source	V <sub>nom</sub>	V	<b>6.0</b>

**Type of power source: DC**

**Deviations from these values are reported in chapter 2**

#### 4 Summary of Measurement Results and list of all performed test cases

- No deviations from the technical specifications were ascertained
- There were deviations from the technical specifications ascertained

TC identifier	Description	verdict	date	Remark
RF-Testing	FCC Part 15 §15.247 - CANADA RSS-210	pass	2008-03-31	pass

Test Specification Clause	Test Case	Pass	Fail	Not applicable	Not performed
None	Antenna Gain	Yes			
§15.247(a1)	Carrier frequency separation	Yes			
§15.247(a1)	Number of hopping channels	Yes			
§15.247(a)(1)(iii)	Time of occupancy (dwell time)	Yes			
§15.247(e)	Power Spectral density (Hybrid system in Inquiry mode/Page scan)			Yes	
§15.247(a)(1)	Spectrum Bandwidth of a FHSS System / 20dB Bandwith	Yes			
§ 15.247 (b)(1)	Maximum output power (conducted)	Yes			
§ 15.247 (b)(1)	Max. peak output power (radiated)	Yes			
§ 15.247 (d)	Band-edge compliance of conducted emissions	Yes			
§ 15.205	Band-edge compliance of radiated emissions	Yes			
§ 15.247 (d)	Spurious Emission - conducted (Transmitter)	Yes			
§ 15.247 (d)	Spurious Emission - radiated (Transmitter) >30 MHz	Yes			
§ 15.109	Spurious Emissions - radiated (Receiver)	Yes			
§ 15.209	Spurious Emissions - radiated (Transmitter) <30 MHz	Yes			
§ 15.107/207	Conducted Emissions <30 MHz	Yes			

## 5 RF measurement testing

### 5.1 Description of test set-up

#### 5.1.1 Radiated measurements

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 9 kHz to 25 GHz in semi-anechoic chambers. The EUT is positioned on a non-conductive support with a height of 0.80 m above a conductive ground plane that covers the whole chamber. The receiving antennas are confirmed with specifications ANSI C63.2-1996 clause 15 and ANSI C63.4-2003 clause 4.1.5. These antennas can be moved over the height range between 1.0 m and 4.0 m in order to search for maximum field strength emitted from EUT. The measurement distances between EUT and receiving antennas are indicated in the test setups for the various frequency ranges. For each measurement, the EUT is rotated in all three axes until the maximum field strength is received. The wanted and unwanted emissions are received by spectrum analysers where the detector modes and resolution bandwidths over various frequency ranges are set according to requirement ANSI C63-4-2003 clause 4.2.

Antennas are confirmed with ANSI C63.2-1996 item 15.

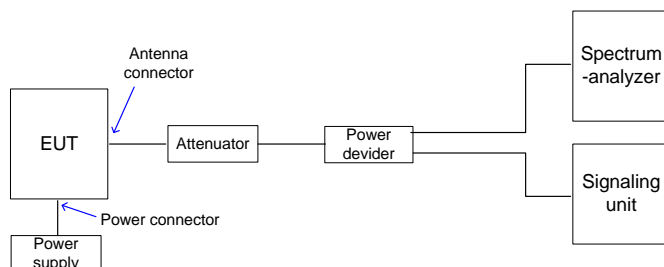
- 9 kHz - 150 kHz: Quasi Peak measurement, 200 Hz Bandwidth, passive loop antenna.
- 150 kHz - 30 MHz: Quasi Peak measurement, 9 kHz Bandwidth, passive loop antenna.
- 30 MHz - 200 MHz: Quasi Peak measurement, 120 kHz Bandwidth, biconical antenna
- 200MHz - 1GHz: Quasi Peak measurement, 120 kHz Bandwidth, log periodic antenna
- >1GHz: Average, RBW 1MHz, VBW 10 Hz, waveguide horn

All measurements are done in accordance with the Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems DA 00-705 and Appendix A “BLUETOOTH APPROVALS”

The EUT is powered by an external power supply with nominal voltage. The signalling is performed from outside the chamber with a signalling unit (CMU200 or other) by air link using signalling antenna.

#### 5.1.2 Conducted measurements

The EUT’s RF signal is coupled out by the antenna connector which is supplied by the manufacturer. The signal is first 10dB attenuated before it is power divided (~6dB loss per branch). One of the signal paths is connected to the communication base Station (CMU200 or other), the other one is connected to the spectrum analyzer. The specific losses for both signal paths are first checked within a calibration. The measurement readings on the signalling unit/spectrum analyzer are corrected by the specific test set-up loss. The attenuator, power divider, signalling unit and the spectrum analyzer are impedance matched on 50 Ohm.



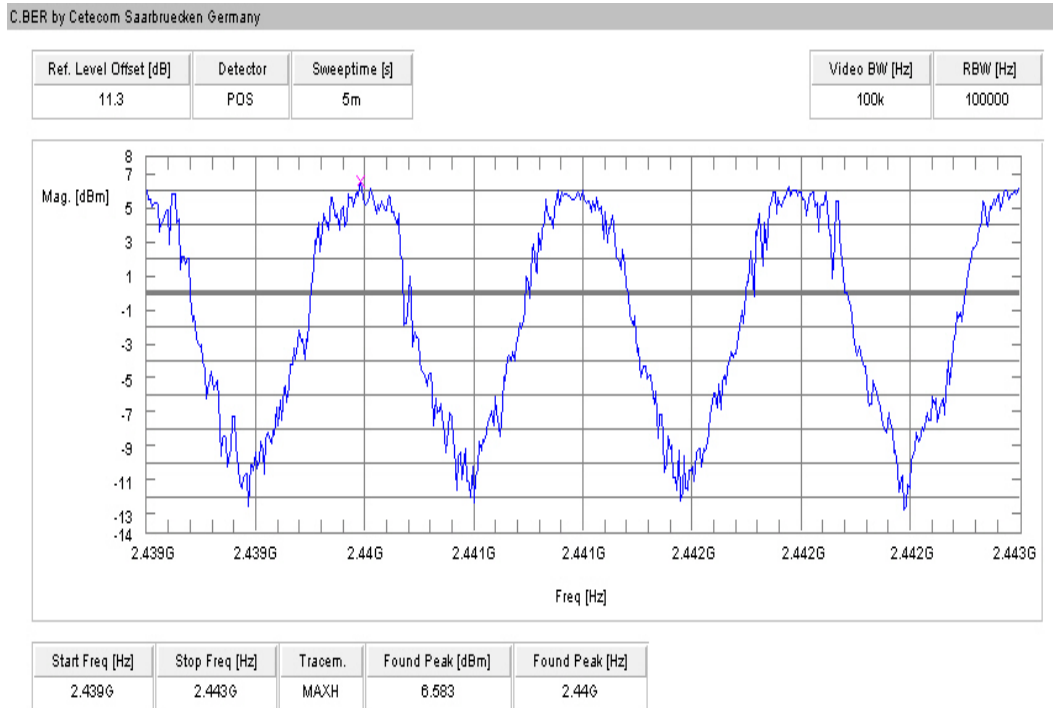
## 5.2 Antenna gain

The antenna gain of the complete system is calculated by the difference of radiated power in EIRP and the conducted power of the module.

	low channel 2402 MHz	mid channel 2441 MHz	high channel 2480 MHz
Conducted power [dBm] Measured	6.94	8.01	<b>8.03</b>
Radiated power [dBm] Measured	7.58	<b>8.30</b>	8.04
Gain [dBi] Calculated	<b>0.64</b>	0.29	0.02

### 5.3 Carrier frequency separation §15.247(a)(1)

Plot 1 of 1:



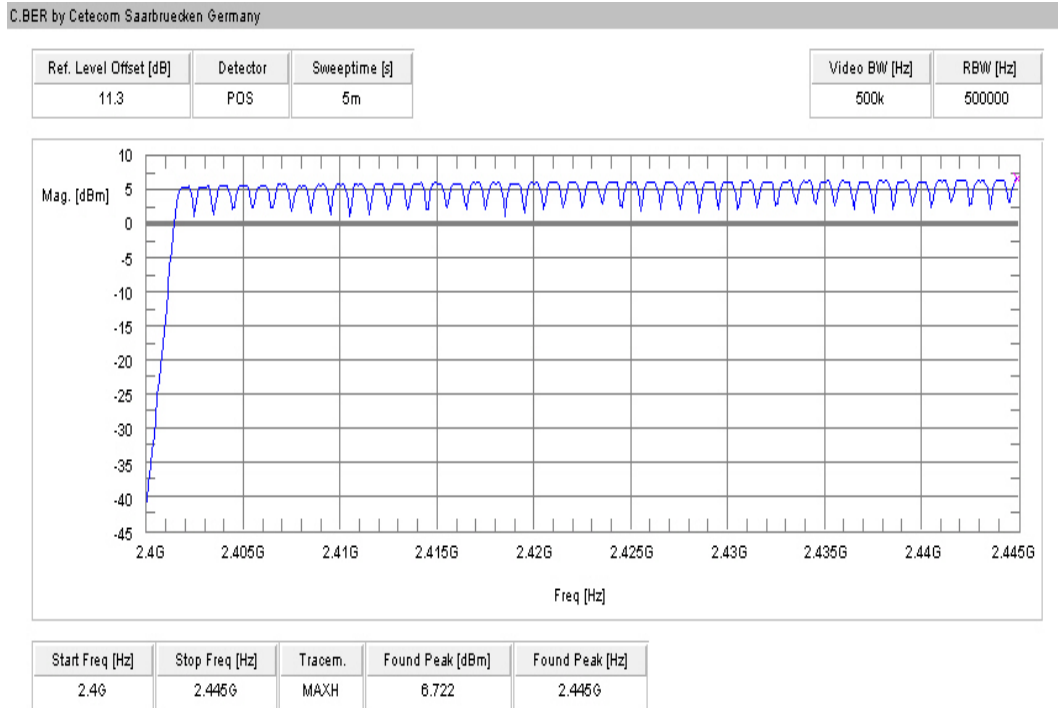
Result: Channel separation is: ~ 1 MHz

Limits:

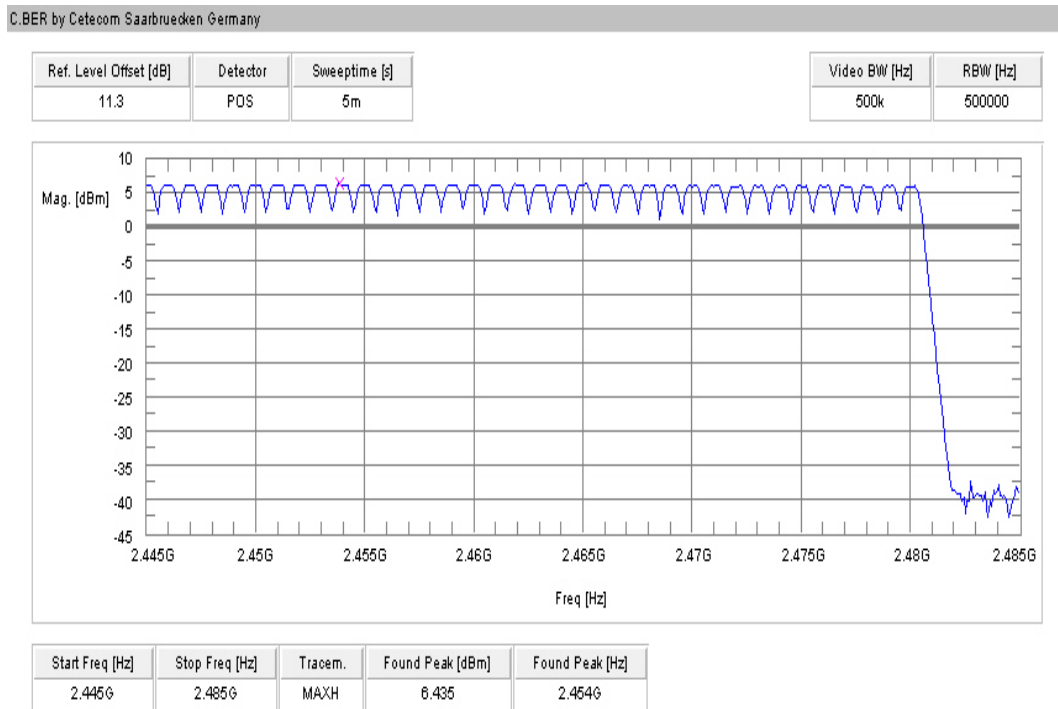
Under normal test conditions only	Minimum 25 kHz or 20 dB Bandwidth of the hopping system
-----------------------------------	---

**5.4 Number of hopping channels §15.247(a)(1)**

Plot 1 of 2:



Plot 2 of 2:



Result: The number of hopping channels is: 79

Limits :

Under normal test conditions only	at least 15 non-overlapping channels
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## 5.5 Time of occupancy (dwell time) §15.247(a)(1)(iii)

### For Bluetooth devices:

The dwell time of 0.4 s within a 31.6 second period in data mode is independent from the packet type (packet length). The calculation for a 31.6 second period is as follows:

Dwell time = time slot length \* hop rate / number of hopping channels \* 31.6 s

Example for a DH1 packet (with a maximum length of one time slot)

Dwell time =  $625 \mu\text{s} * 1600 \text{ 1/s} / 79 * 31.6 \text{ s} = 0.4 \text{ s}$  (in a 31.6 s period)

For multi-slot packet the hopping is reduced according to the length of the packet.

Example for a DH5 packet (with a maximum length of five time slots)

Dwell time =  $5 * 625 \mu\text{s} * 1600 * 1/5 * 1/s / 79 * 31.6 \text{ s} = 0.4 \text{ s}$  (in a 31.6 s period)

This is according to the Bluetooth Core Specification V 1.1 & V 1.2 (+ critical errata) for all Bluetooth devices.

Therefore, all Bluetooth devices comply with the FCC dwell time requirement in the data mode.

This was checked during the Bluetooth Qualification tests.

The Dwell time in hybrid mode is approximately 2.6 ms (in a 12.8s period).

**5.6 Power Spectral density (Hybrid system in Inquiry mode/Page scan)  
§15.247(e)**

**not applicable**

Result: Power density: - dBm/Hz = - dBm / 3 kHz  
Correction factor from dBm/Hz to dBm / 3 kHz is +34,8 dB

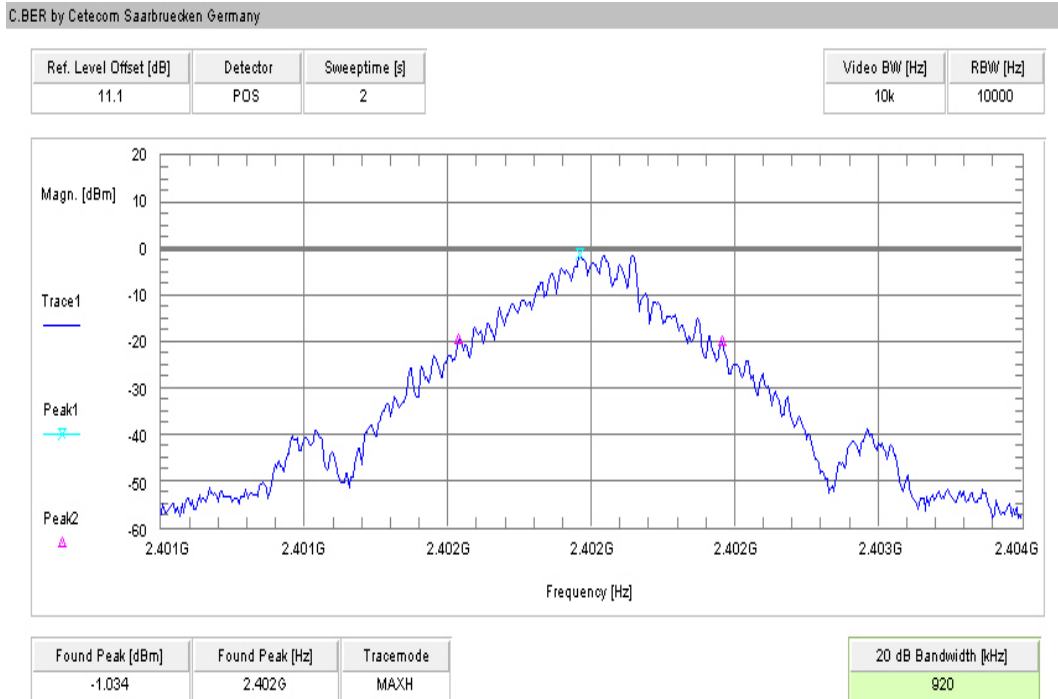
Limits :

Under normal test conditions only	For digitally modulated systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission
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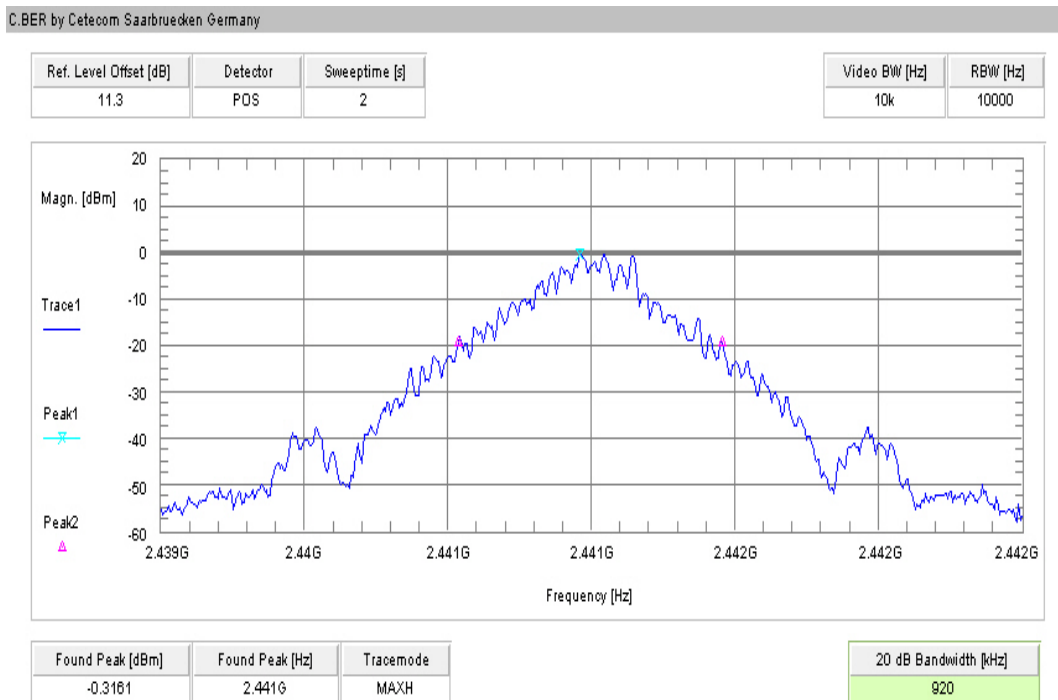


**5.7 Spectrum Bandwidth of a FHSS System / 20dB Bandwidth §15.247(a)(1)**

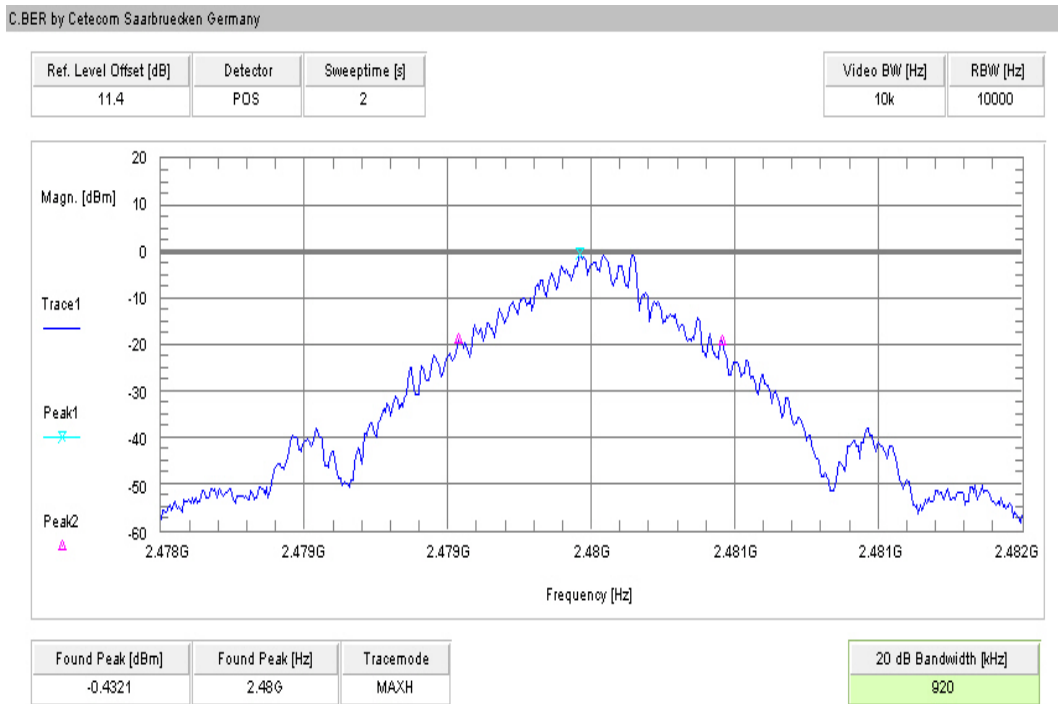
Plot 1 of 3



Plot 2 of 3



Plot 3 of 3



Result:

Test conditions		20 dB BANDWIDTH [kHz]		
Frequency [MHz]		2402	2441	2480
$T_{nom}$	$V_{nom}$	<b>920</b>	<b>920</b>	<b>920</b>
Measurement uncertainty		±1kHz		

RBW / VBW as provided in the „Measurement Guidelines“ (DA 00-705, March 30, 2000)

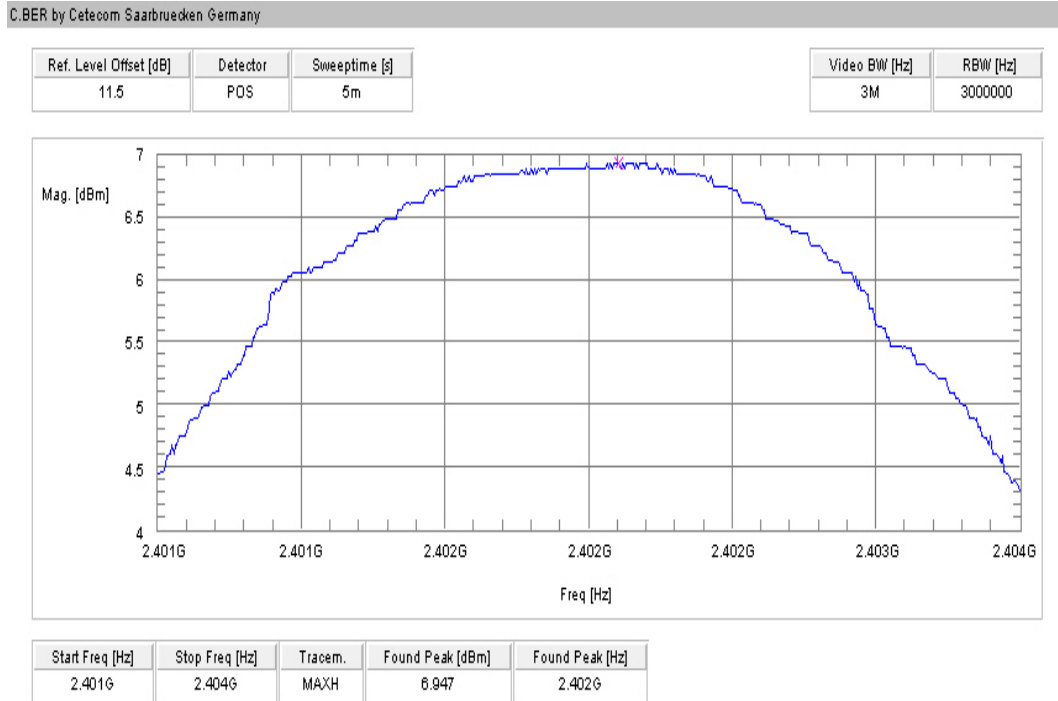
RBW: 10 kHz / VBW 10 kHz

Limits:

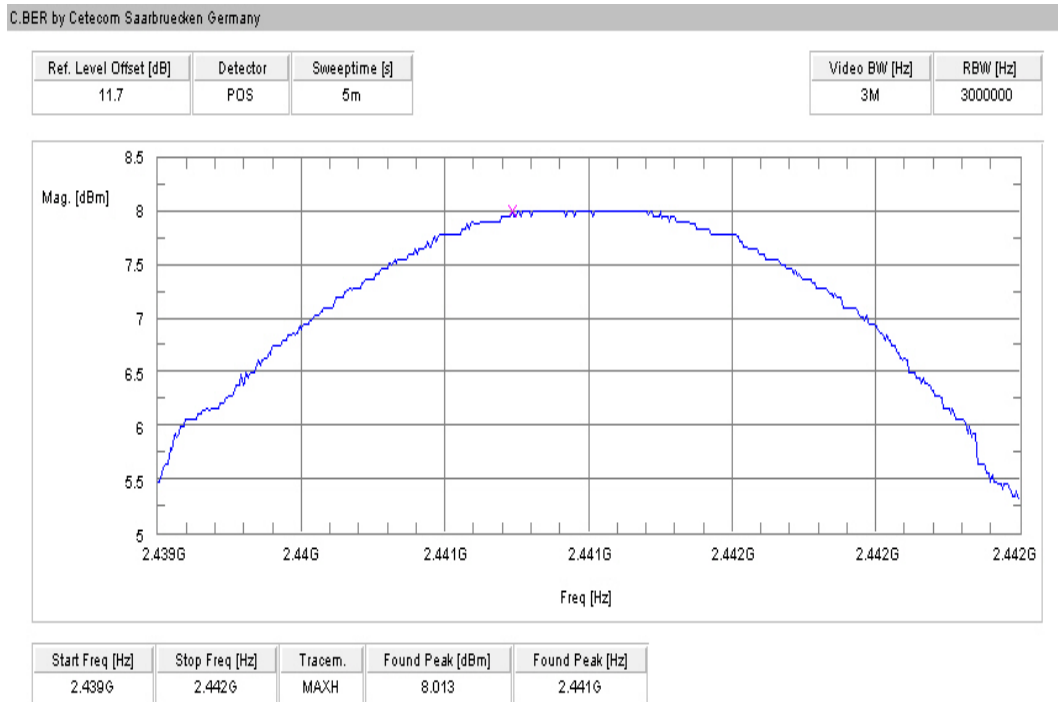
Under normal test conditions only	< 1000 kHz
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**5.8 Maximum output power (conducted) § 15.247 (b)(1)**

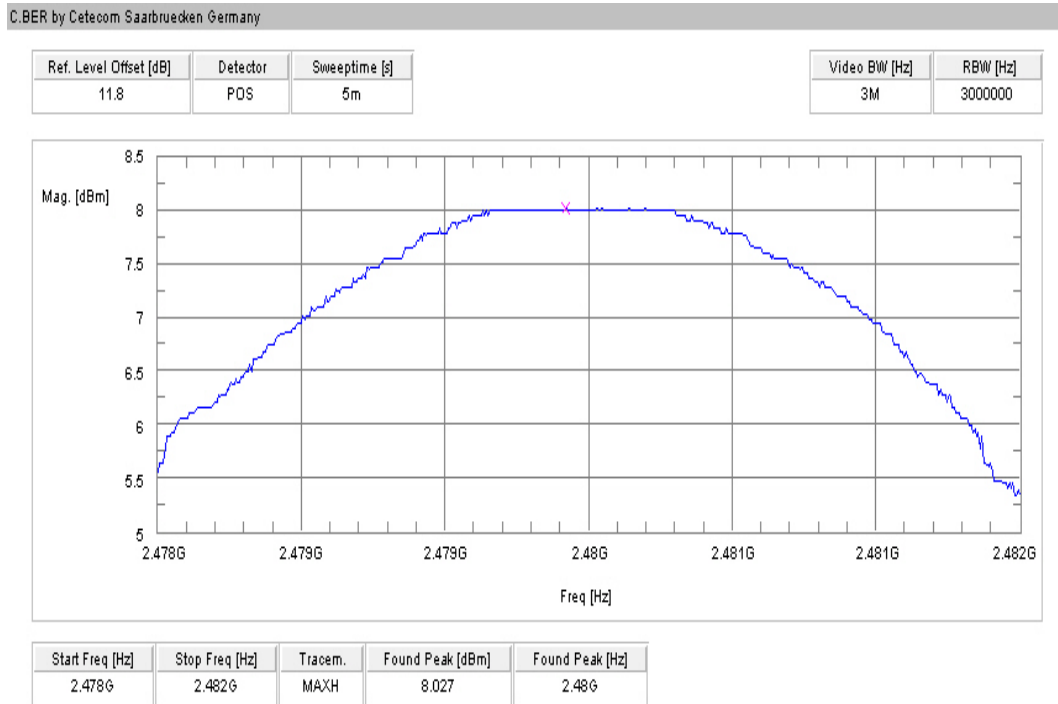
Plot 1 of 3



Plot 2 of 3



Plot 3 of 3



Results:

Test conditions		Max. peak output power [dBm]					
Frequency [MHz]		2402		2442		2480	
T <sub>nom</sub>	V <sub>nom</sub>	PK	6.94	PK	8.01	PK	<b>8.03</b>
Measurement uncertainty		±3dB					

RBW / VBW: 3 MHz

Limits:

Under normal test conditions only, for frequency range 2400-2483.5 MHz	Max. 1.0 Watt
--	---------------

**5.9 Max. peak output power (radiated) § 15.247 (b)(1)**

Results:

Test conditions		Max. peak output power EIRP [dBm]		
Frequency [MHz]		2402	2442	2480
T <sub>nom</sub>	V <sub>nom</sub>	7.58	<b>8.30</b>	8.04
Measurement uncertainty		±3dB		

RBW / VBW: 3 MHz

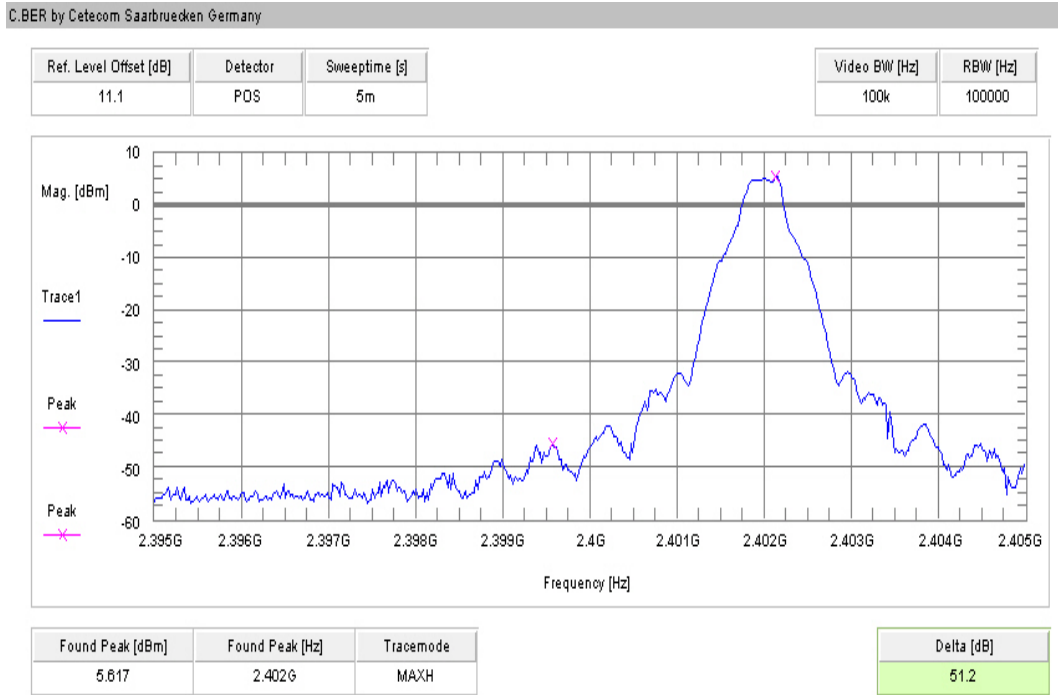
Measured at a distance of 3m

Limits:

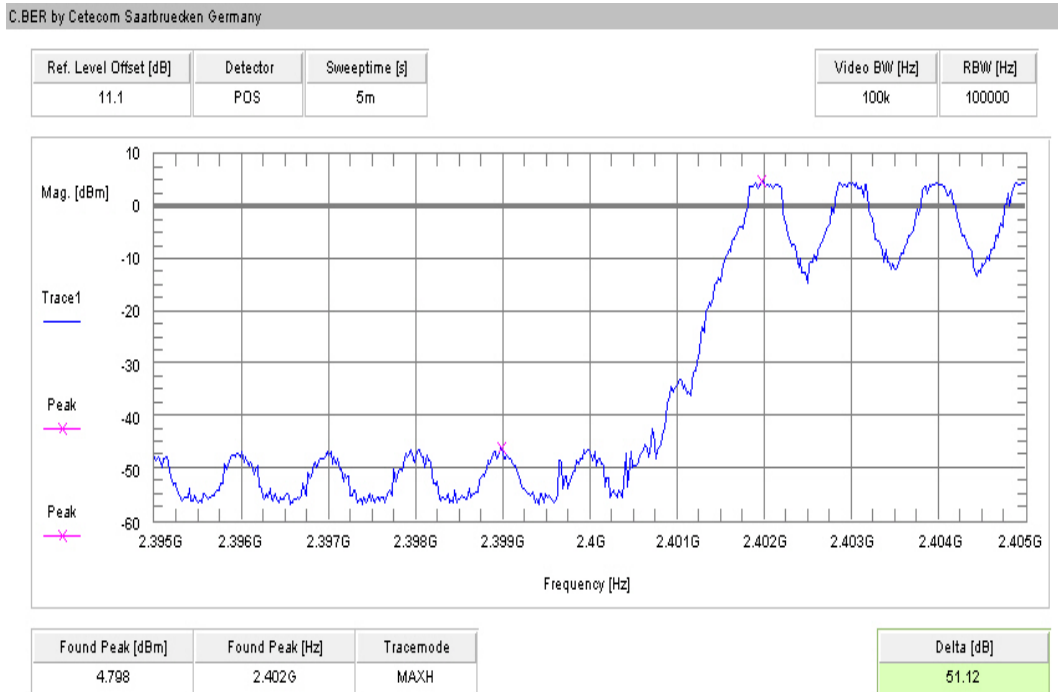
Under normal test conditions only, for frequency range 2400-2483.5 MHz	Max. 1.0 Watt
--	---------------

**5.10 Band-edge compliance of conducted emissions §15.247 (d)**

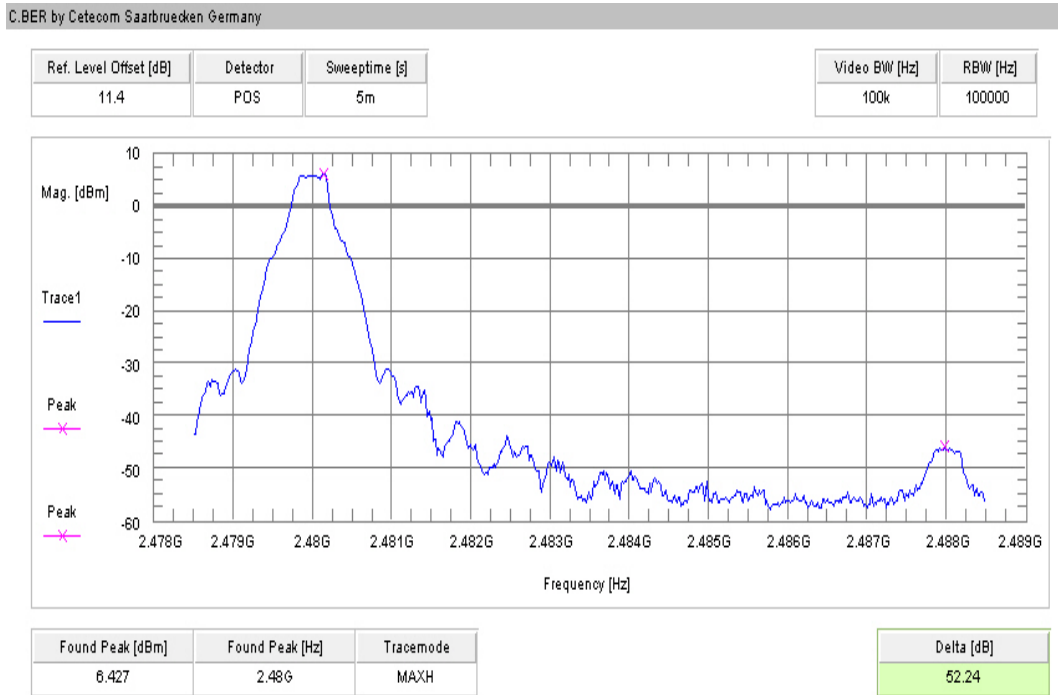
Plot 1 of 4 (hopping off, lowest frequency):



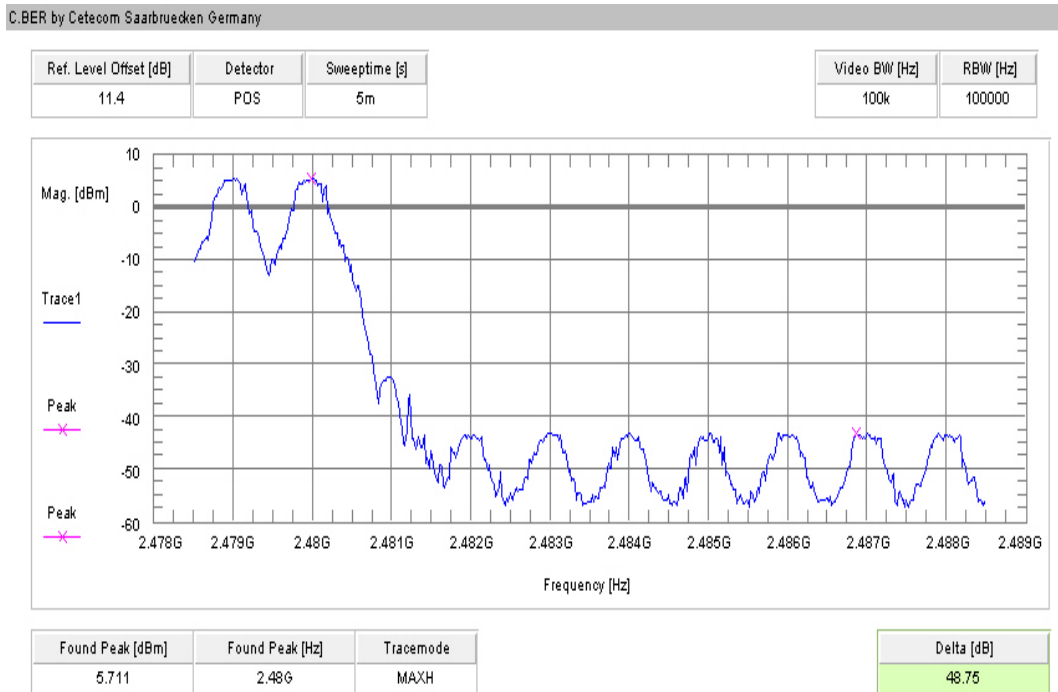
Plot 2 of 4 (hopping on, lowest frequency):



Plot 3 of 4 (hopping off, highest frequency):



Plot 4 of 4 (hopping on, highest frequency):



Results:

SZENARIO	DELTA VALUE [DB]
hopping off, lowest frequency	> 20 dB
hopping on, lowest frequency	> 20 dB
hopping off, highest frequency	> 20 dB
hopping on, highest frequency	> 20 dB
Measurement uncertainty	±1,5dB

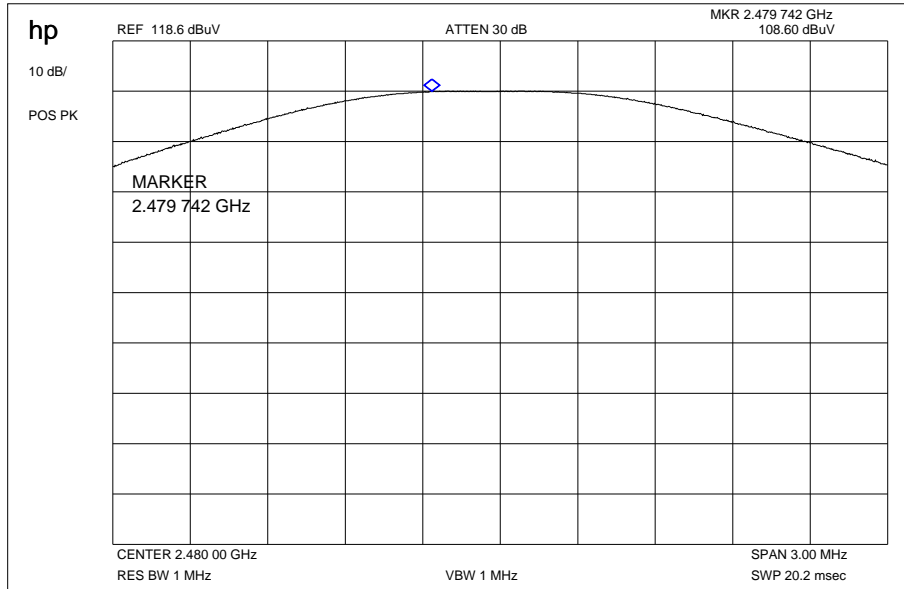
Limits:

Under normal test conditions only	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 5.205(c)).
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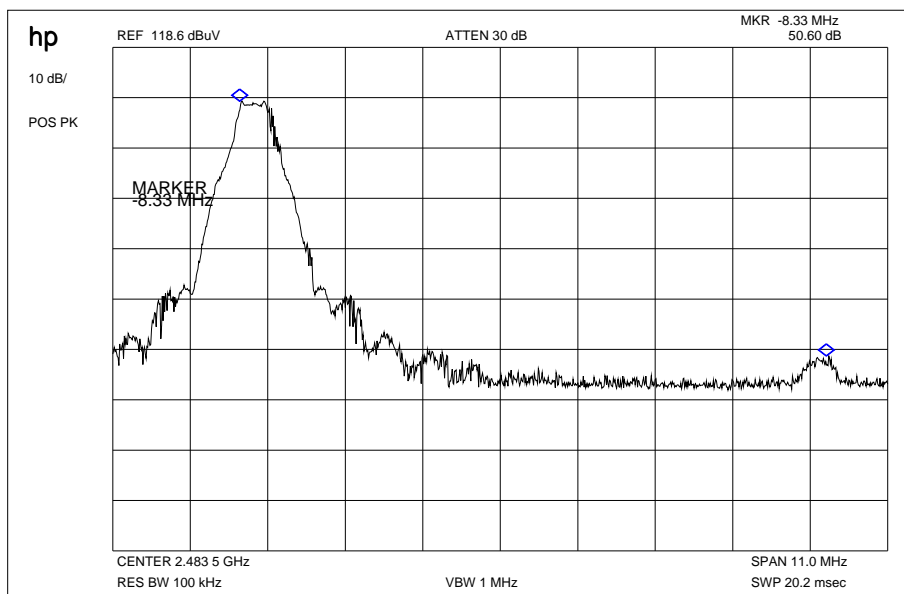
**5.11 Band-edge compliance of radiated emissions §15.205**

Plot 1: Max field strength in 3m distance (single frequency)



Result: 108.6 dB $\mu$ V/m

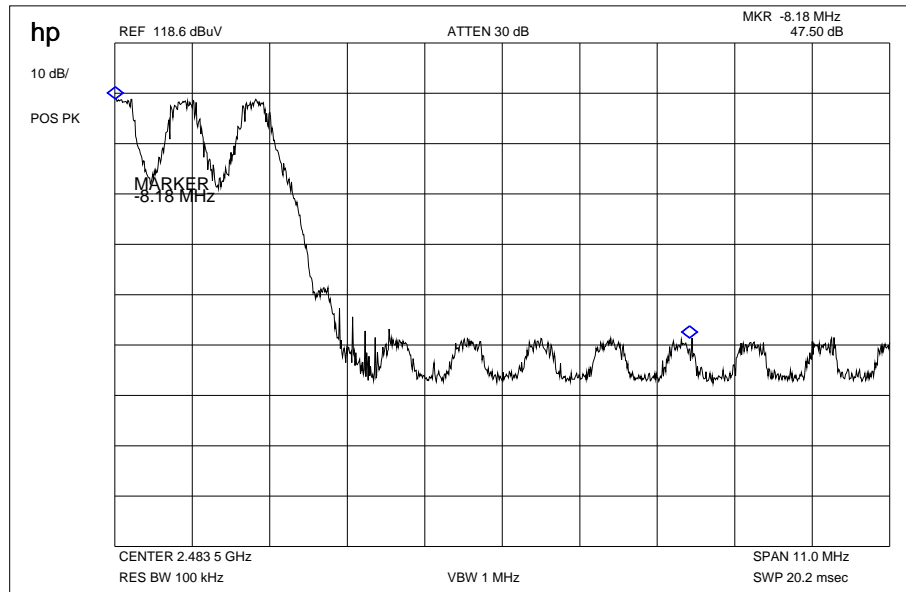
Plot 2: Marker-Delta Method (single carrier)



Marker-Delta-Value: 50.6 dB

This measurement was made to show that the behaviour of the system is conform to FCC 15.205 (restricted bands)

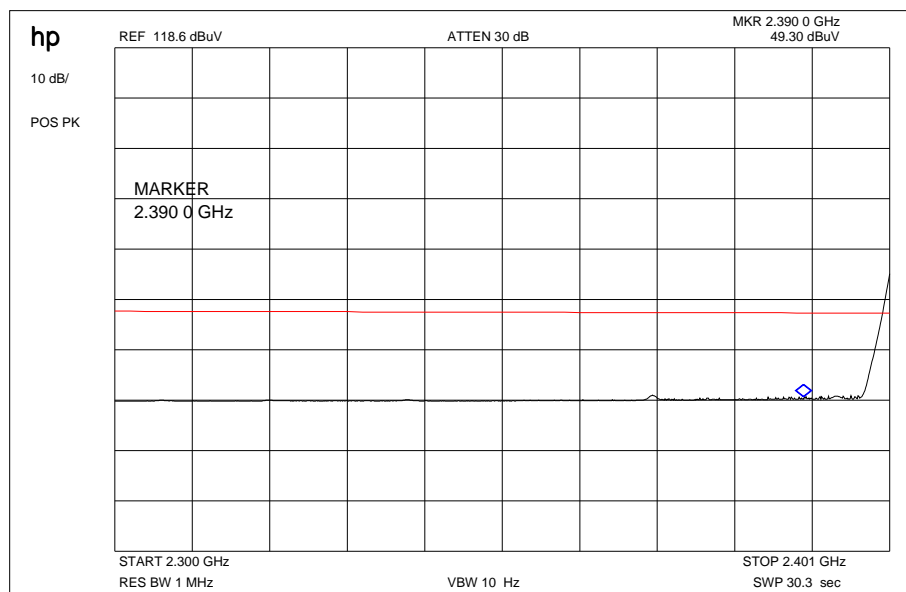
Plot 3: Marker-Delta Method (hopping)



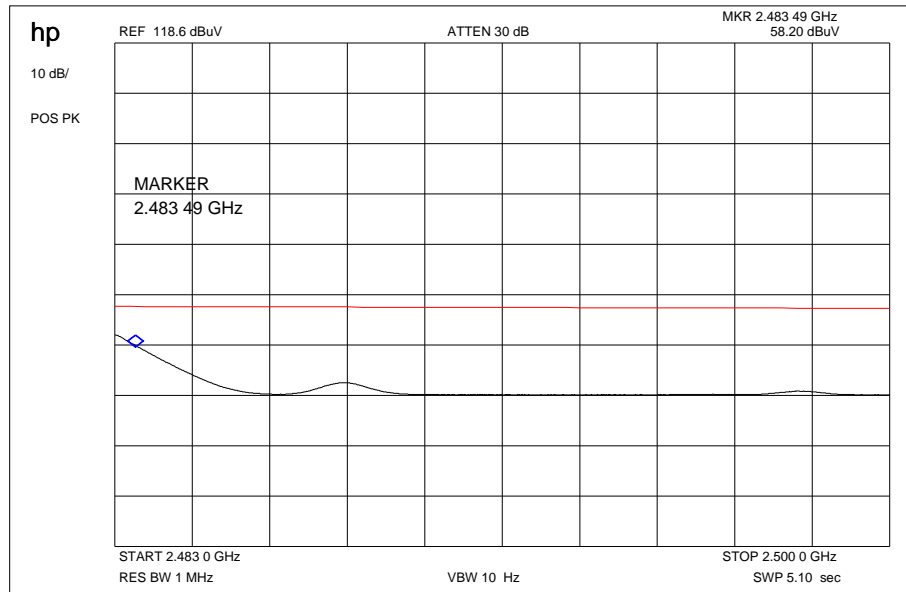
Marker-Delta-Value: 47.5 dB

This measurement was made to show that the behaviour of the system is conform to FCC 15.205 (restricted bands)

Plot 4: Restricted Bands low



Plot 5: Restricted Bands high



Results & Limits:

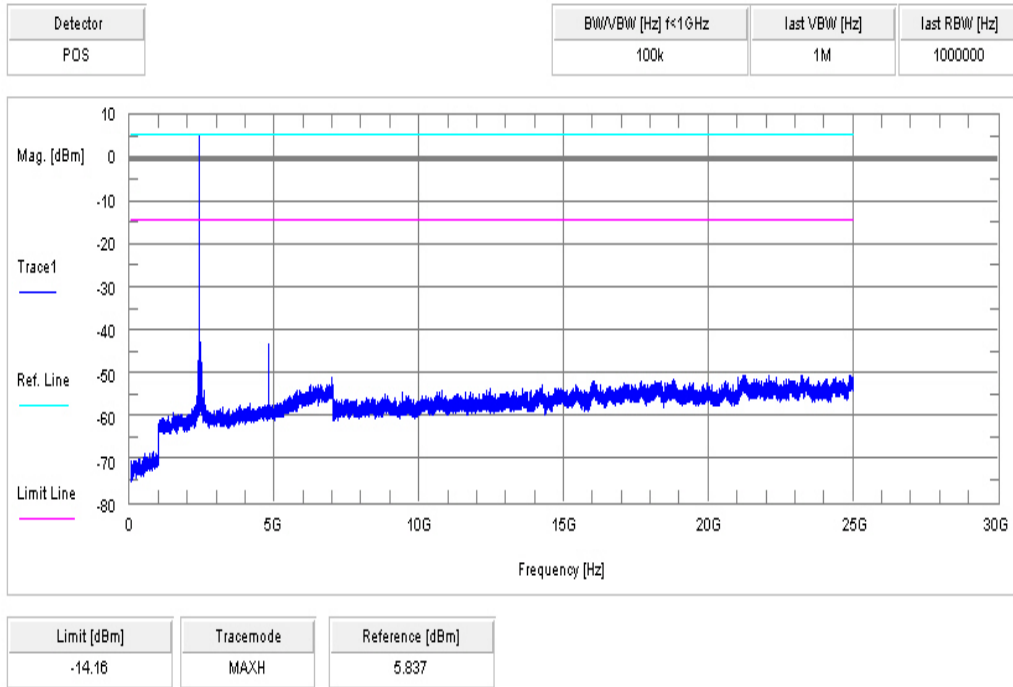
Radiated field strength

The field strength was measured with an EMI measuring receiver and 1 MHz RBW / VBW for peak and with 1MHz RBW / 10Hz VBW for average at a distance of 3m.

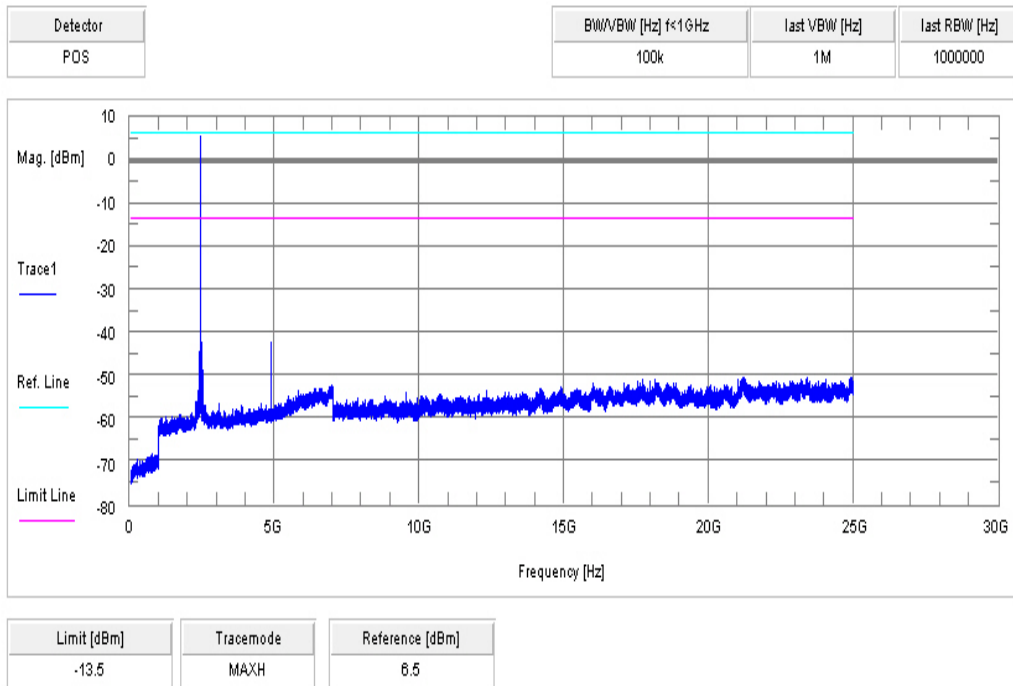
high channel	setup	measured value (3m)	correction factor (3m)	calculated value (3m)
Max. peak value	1 MHz RBW 1 MHz VBW	108.6 dB $\mu$ V/m	-6.3	102.3 dB $\mu$ V/m
Max. average value	Calculated with duty cycle correction factor	102.3dB $\mu$ V/m peak	-1,07dB duty cycle correction factor (worst case DH5)	101.23 dB $\mu$ V/m
Delta value	Peak 100 kHz RBW/VBW	50.6 dB (single carrier) 47.5 dB (hopping mode)	-	-
Value at band edge	limit 54 dB $\mu$ V/m			50.63 dB $\mu$ V/m (single carrier) 53.73 dB $\mu$ V/m (hopping mode)
Statement:				Complies

5.12 Spurious Emissions - conducted (Transmitter) § 15.247 (c)(1)

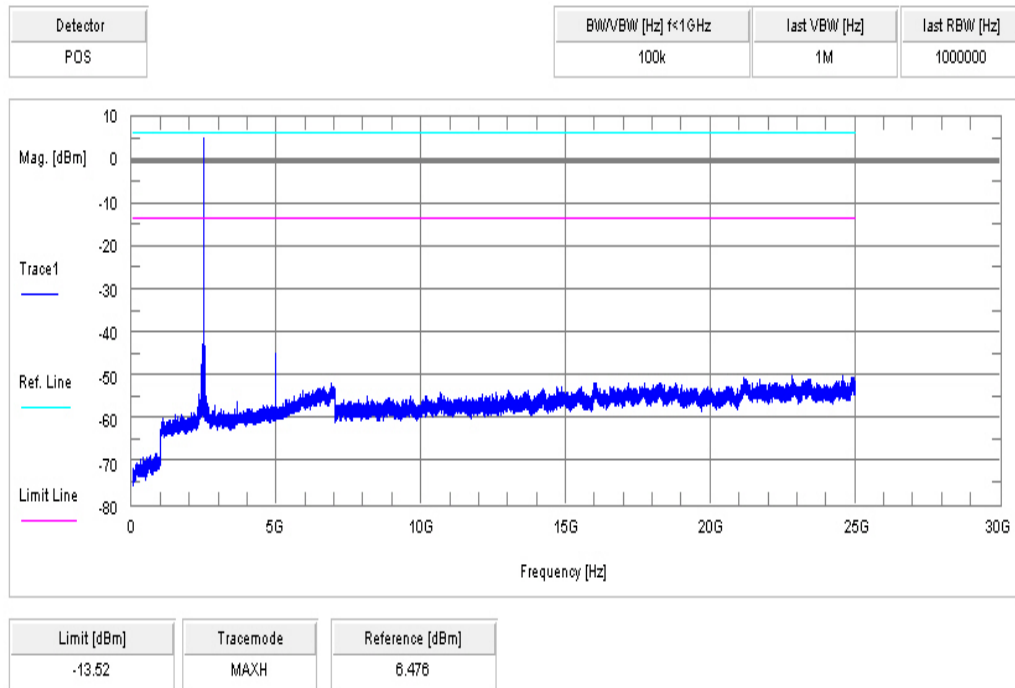
Plot 1 of 3: lowest channel



Plot 2 of 3: middle channel



Plot 3 of 3: highest channel



Result & Limits:

Emission Limitation					
f [MHz]		amplitude of emission [dBm]	limit max. allowed emmission power	actual attenuation below frequency of operation [dB]	results
2402		5.84	30 dBm		Operating frequency
No peaks found			-20 dBc		
2441		6.50	30 dBm		Operating frequency
No peaks found			-20 dBc		
2480		6.48	30 dBm		Operating frequency
No peaks found			-20 dBc		
Measurement uncertainty		± 3dB			

F < 1 GHz: RBW: 100 kHz VBW: 100 kHz  
 F > 1 GHz: RBW: 1 MHz VBW: 1 MHz

Under normal test conditions only	In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
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Note: For emissions that fall into restricted bands you find the radiated emissions later in the report.

**5.13 Spurious Emissions > 30 MHz- radiated (Transmitter) § 15.247 (c)(1)**

Plot: 0.03 - 1 GHz vertical worst case (lowest channel)

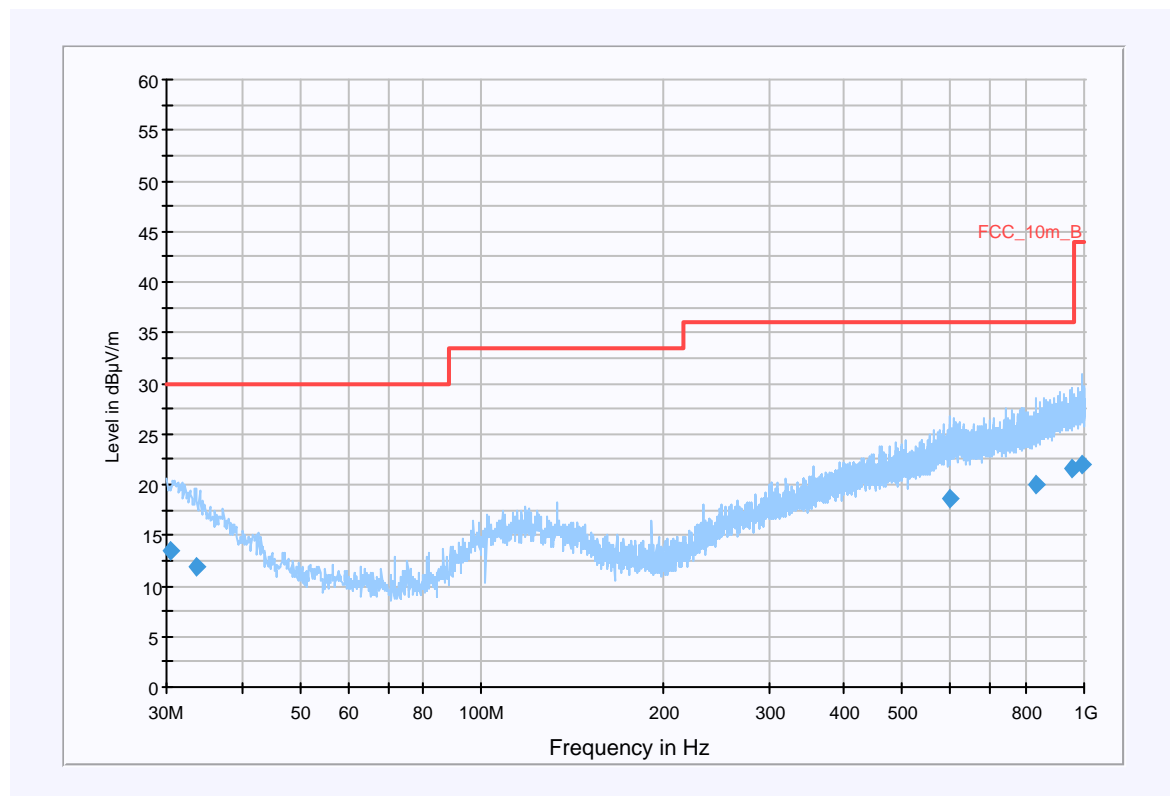
**Information**

EUT: VMX Office base station (502557) + 094707  
 Serial Number: RF3 + 805000003A1  
 Test Description: FCC @ 10 m  
 Operating Conditions: BT TX CH 0 (DH-5)  
 Operator Name: Hennemann  
 Comment: AC: 115 V / 60 Hz

**Scan Setup: STAN\_Fin [EMI radiated]**

Hardware Setup: EMI radiated\Electric Field (NOS)  
 Level Unit: dBµV/m  
**Subrange**                      **Detectors**                      **IF Bandwidth**                      **Meas. Time**                      **Receiver**  
 30MHz - 1GHz                      QuasiPeak                      120kHz                      15s                      Receiver

**FCC\_10m\_FCCLIMIT(B)**



**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
30.495900	13.5	120.000	175.0	H	43.0	17.8	16.5	30.0	
33.670950	11.8	120.000	115.0	V	130.0	15.9	18.2	30.0	
600.240800	18.6	120.000	178.0	V	278.0	21.6	17.4	36.0	
833.205600	20.0	120.000	176.0	H	298.0	23.2	16.0	36.0	
955.191100	21.6	120.000	200.0	V	90.0	24.6	14.4	36.0	
992.623100	22.0	120.000	180.0	V	291.0	25.0	22.0	44.0	

Hardware Setup: EMI radiated\Electric Field (NOS) - [EMI radiated]

Subrange 1

Frequency Range: 30MHz - 2GHz

Receiver: Receiver [ESCI 3]  
@ GPIB0 (ADR 20), SN 100083/003, FW 3.32, CAL 07.01.2009

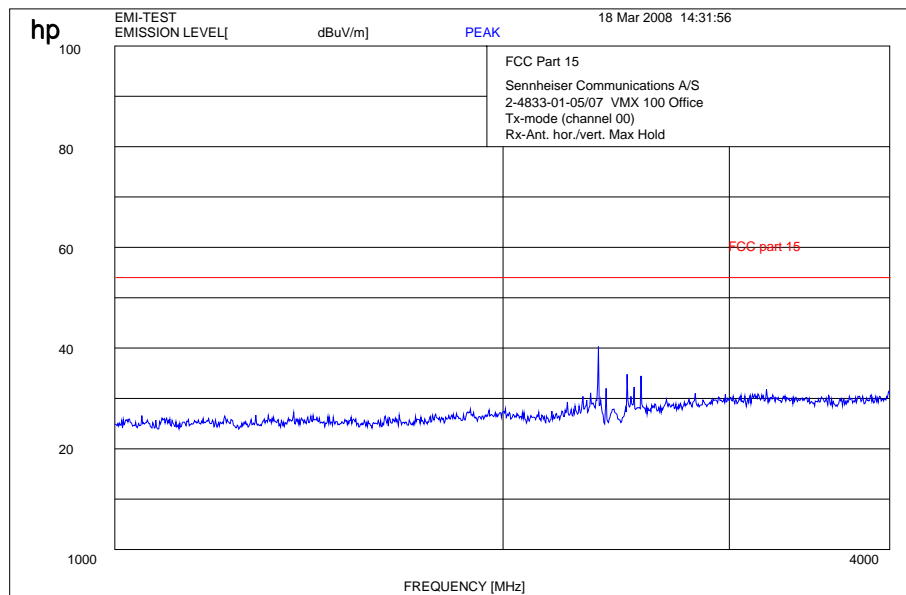
Signal Path: without Notch  
FW 1.0

Antenna: Chase Broadband BiLog Antenna CBL 6112  
SN 2110, FW A, CAL 07.01.2009  
Correction Table (vertical): Chase Broadband BiLog Antenna CBL 6112  
Correction Table (horizontal): Chase Broadband BiLog Antenna CBL 6112  
Correction Table: Cabel with switch (1007)

Antenna Tower: Tower [EMCO 2090 Antenna Tower]  
@ GPIB0 (ADR 8), FW REV 3.12

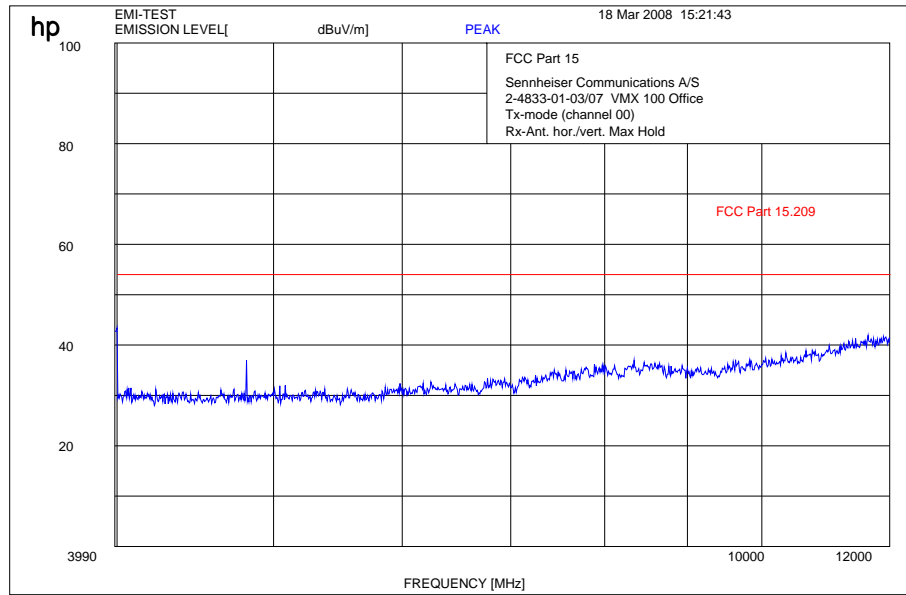
Turntable: Turntable [EMCO Turntable]  
@ GPIB0 (ADR 9)

Plot: 1 - 4 GHz vertical worst case (lowest channel)

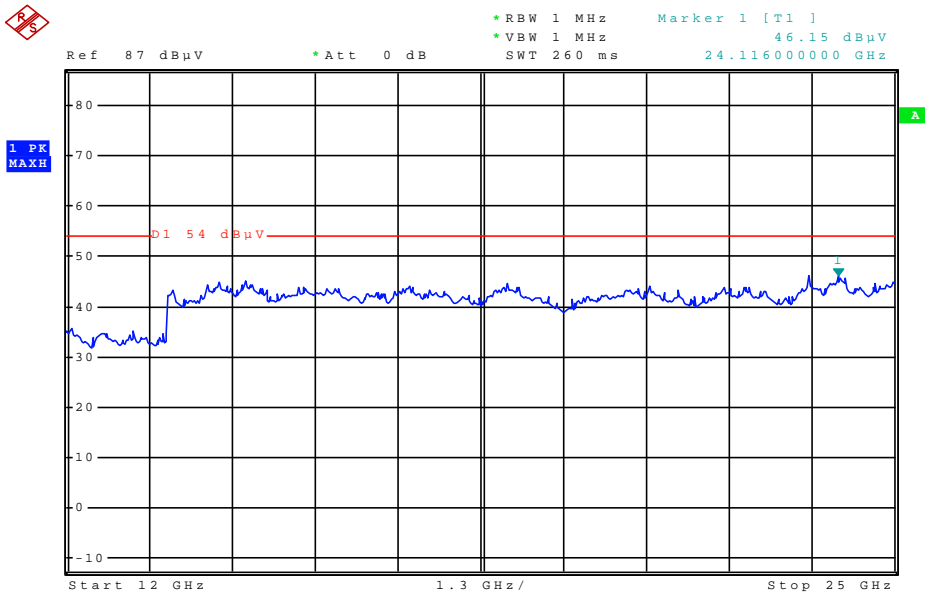


Carrier suppressed with a rejection filter

Plot: 4 - 12 GHz vertical worst case (lowest channel)



Plot: 12 - 25 GHz vertical/horizontal (valid for all channels)





Plot: 0.03 - 1 GHz vertical/horizontal (middle channel)

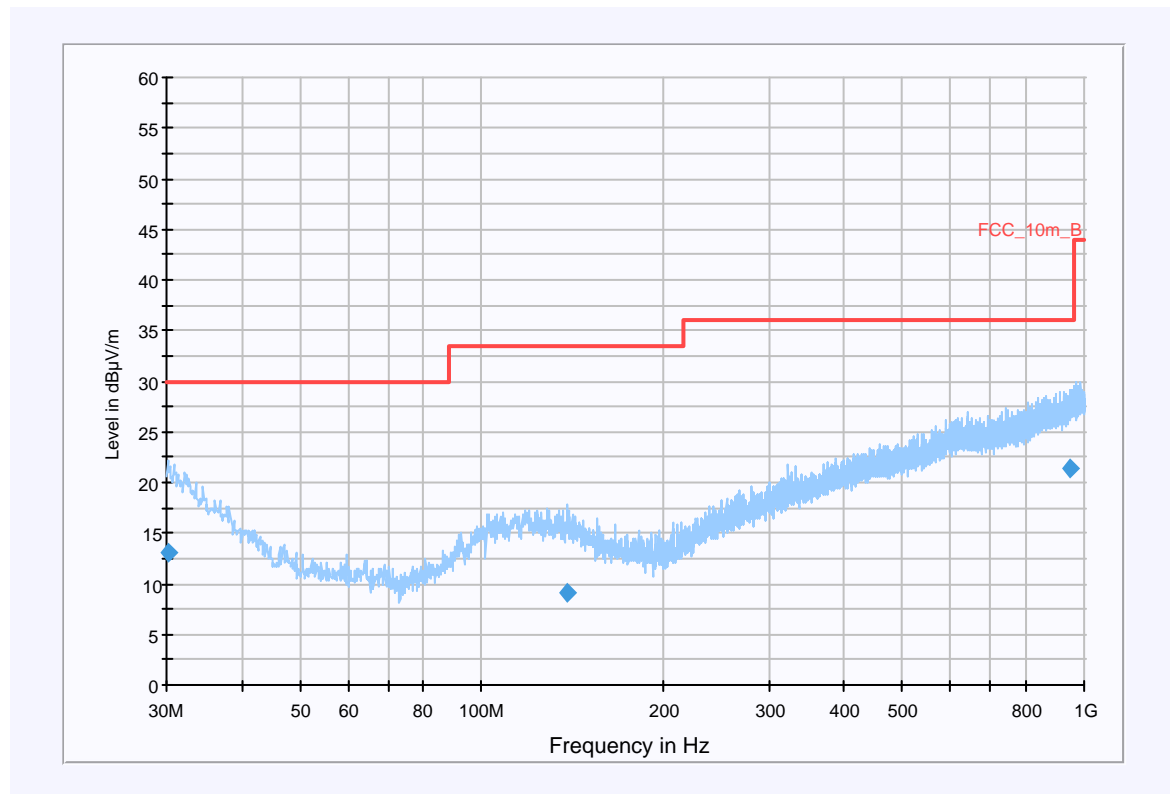
**Information**

EUT: VMX Office base station (502557) + 094707  
 Serial Number: RF3 + 805000003A1  
 Test Description: FCC @ 10 m  
 Operating Conditions: BT TX CH 39 (DH-5)  
 Operator Name: Hennemann  
 Comment: AC: 115 V / 60 Hz

**Scan Setup: STAN\_Fin [EMI radiated]**

Hardware Setup: EMI radiated\Electric Field (NOS)  
 Level Unit: dBµV/m  
**Subrange**                      **Detectors**                      **IF Bandwidth**                      **Meas. Time**                      **Receiver**  
 30MHz - 1GHz                      QuasiPeak                      120kHz                      15s                      Receiver

**FCC\_Short\_1GHz**



**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
30.309687	13.1	120.000	120.0	V	45.0	17.9	16.9	30.0	
139.097700	9.1	120.000	120.0	V	164.0	13.0	24.4	33.5	
945.816250	21.3	120.000	120.0	H	318.0	24.5	14.7	36.0	

Hardware Setup: EMI radiated\Electric Field (NOS) - [EMI radiated]

Subrange 1

Frequency Range: 30MHz - 2GHz

Receiver: Receiver [ESCI 3]  
@ GPIB0 (ADR 20), SN 100083/003, FW 3.32, CAL 07.01.2009

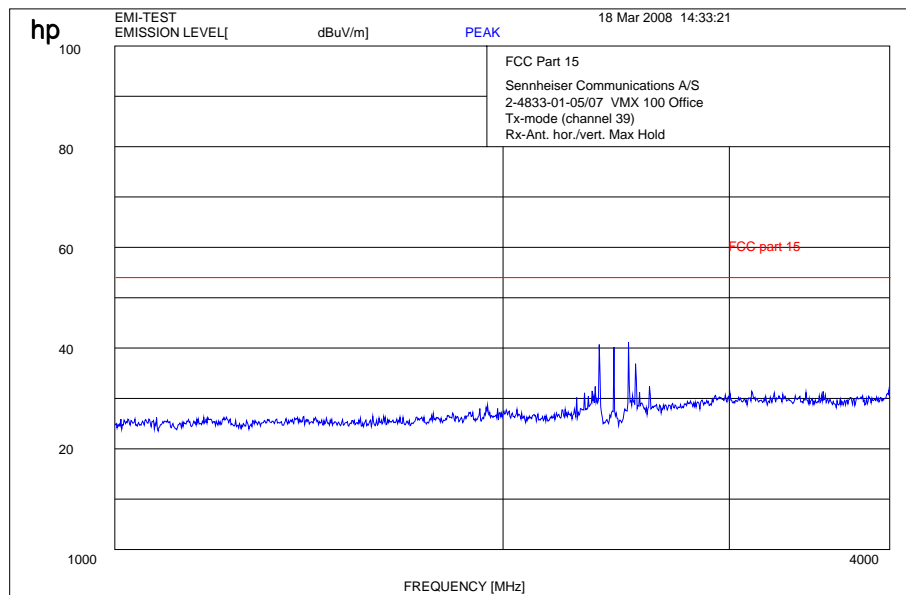
Signal Path: without Notch  
FW 1.0

Antenna: Chase Broadband BiLog Antenna CBL 6112  
SN 2110, FW A, CAL 07.01.2009  
Correction Table (vertical): Chase Broadband BiLog Antenna CBL 6112  
Correction Table (horizontal): Chase Broadband BiLog Antenna CBL 6112  
Correction Table: Cabel with switch (1007)

Antenna Tower: Tower [EMCO 2090 Antenna Tower]  
@ GPIB0 (ADR 8), FW REV 3.12

Turntable: Turntable [EMCO Turntable]  
@ GPIB0 (ADR 9)

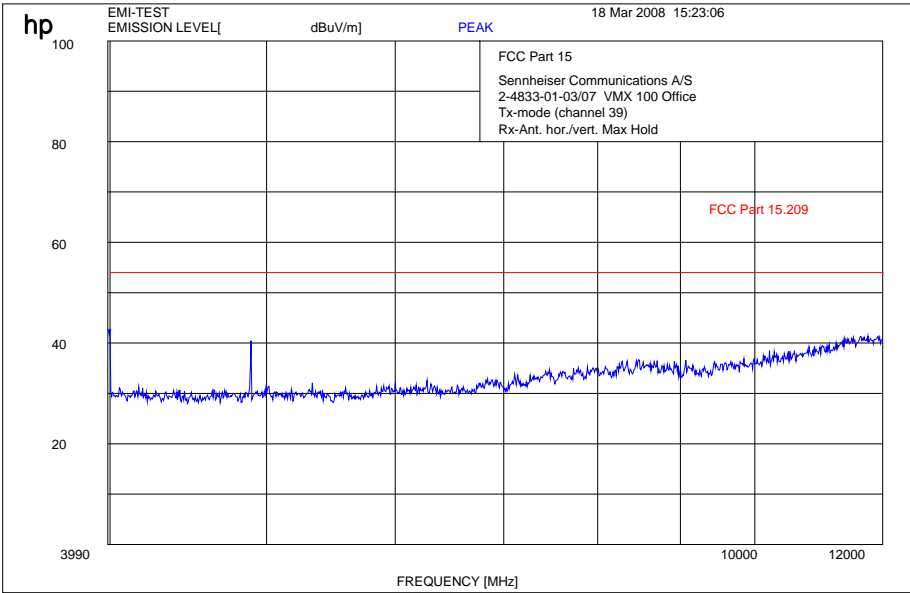
Plot: 1 - 4 GHz vertical/horizontal (middle channel)



Carrier suppressed with a rejection filter



Plot: 4 - 12 GHz vertical/horizontal (middle channel)



Plot: 0.03 - 1 GHz vertical/horizontal (highest channel)

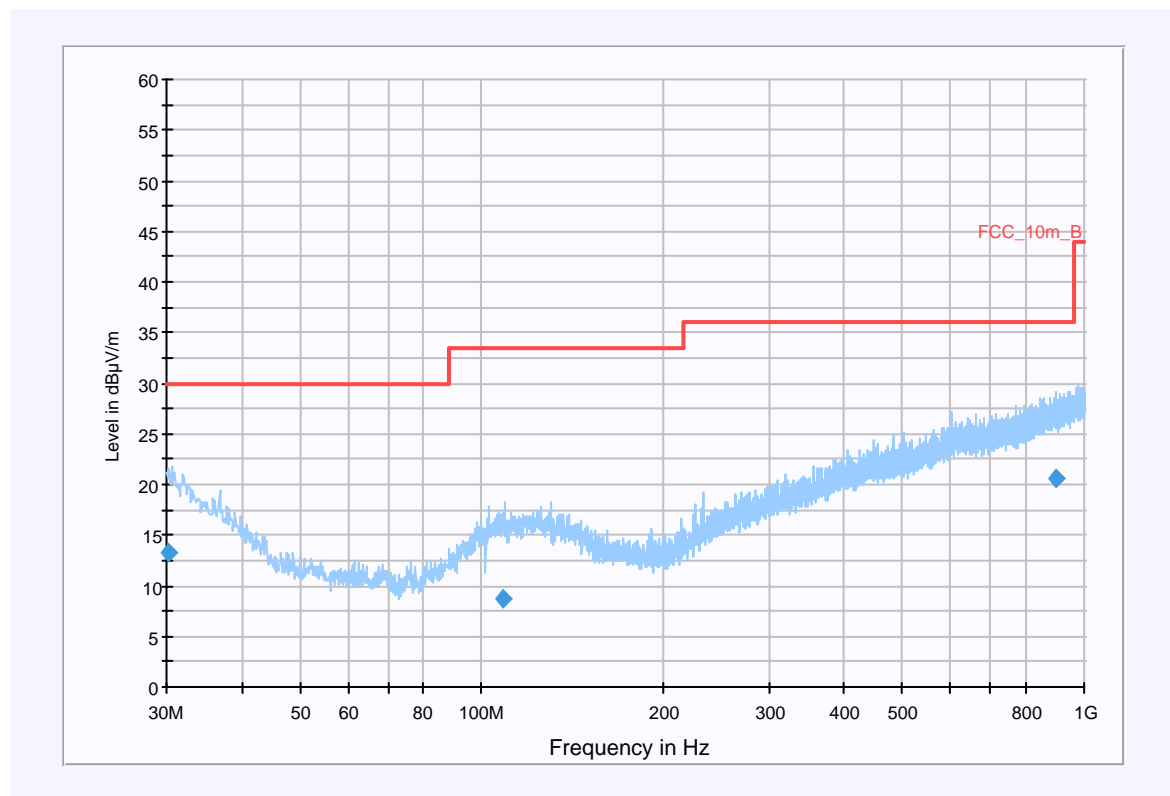
**Information**

EUT: VMX Office base station (502557) + 094707  
 Serial Number: RF3 + 805000003A1  
 Test Description: FCC @ 10 m  
 Operating Conditions: BT TX CH 78 (DH-5)  
 Operator Name: Hennemann  
 Comment: AC: 115 V / 60 Hz

**Scan Setup: STAN\_Fin [EMI radiated]**

Hardware Setup: EMI radiated\Electric Field (NOS)  
 Level Unit: dBµV/m  
**Subrange**                      **Detectors**                      **IF Bandwidth**                      **Meas. Time**                      **Receiver**  
 30MHz - 1GHz                      QuasiPeak                      120kHz                      15s                      Receiver

**FCC\_Short\_1GHz**



**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
30.186400	13.2	120.000	120.0	H	45.0	18.0	16.8	30.0	
108.879350	8.8	120.000	120.0	H	83.0	13.4	24.7	33.5	
898.256350	20.7	120.000	120.0	V	101.0	24.0	15.3	36.0	

Hardware Setup: EMI radiated\Electric Field (NOS) - [EMI radiated]

Subrange 1

Frequency Range: 30MHz - 2GHz

Receiver: Receiver [ESCI 3]  
@ GPIB0 (ADR 20), SN 100083/003, FW 3.32, CAL 07.01.2009

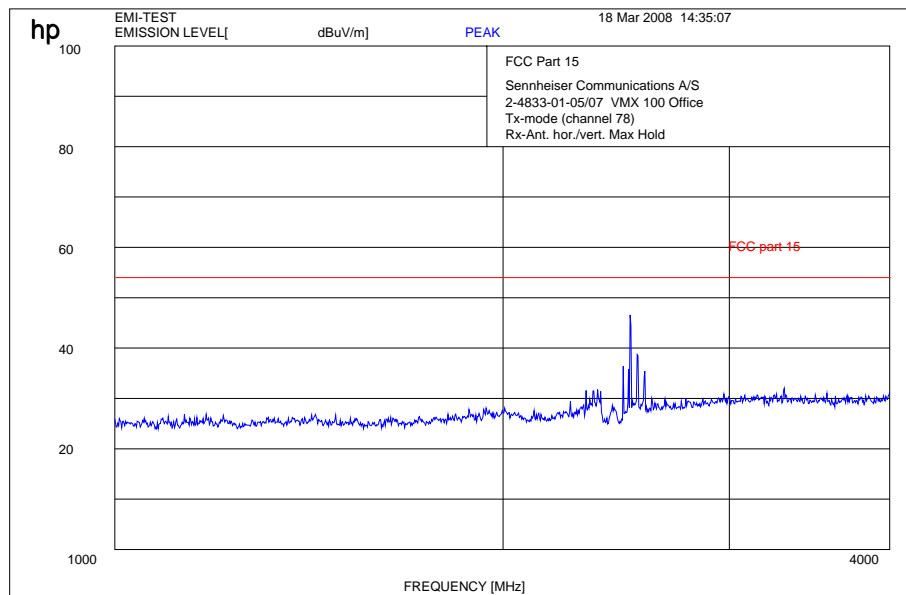
Signal Path: without Notch  
FW 1.0

Antenna: Chase Broadband BiLog Antenna CBL 6112  
SN 2110, FW A, CAL 07.01.2009  
Correction Table (vertical): Chase Broadband BiLog Antenna CBL 6112  
Correction Table (horizontal): Chase Broadband BiLog Antenna CBL 6112  
Correction Table: Cabel with switch (1007)

Antenna Tower: Tower [EMCO 2090 Antenna Tower]  
@ GPIB0 (ADR 8), FW REV 3.12

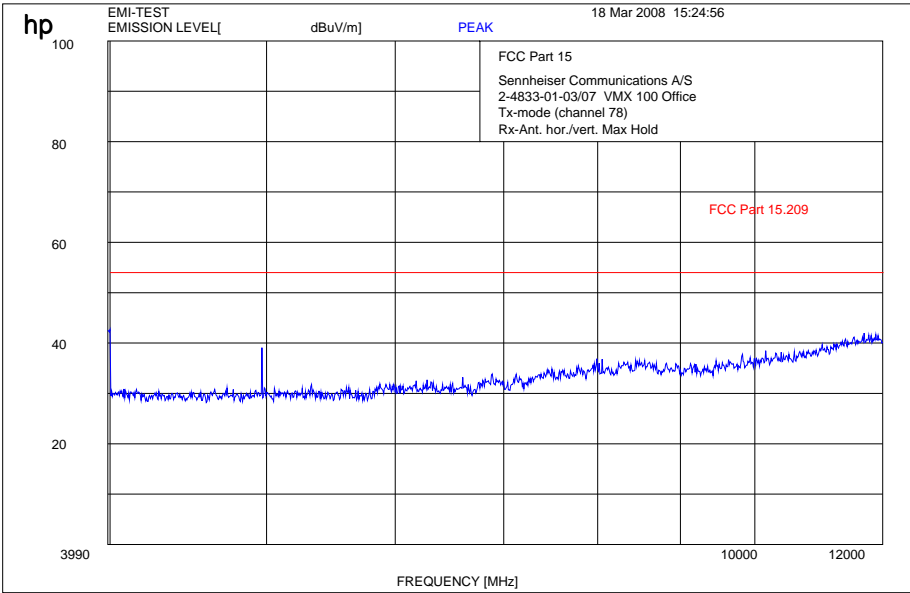
Turntable: Turntable [EMCO Turntable]  
@ GPIB0 (ADR 9)

Plot: 1 - 4 GHz vertical/horizontal (highest channel)



Carrier suppressed with a rejection filter

Plot: 4 - 12 GHz vertical/horizontal (highest channel)



Results:

SPURIOUS EMISSIONS LEVEL (dB $\mu$ V/m)								
2402 MHz			2441 MHz			2480 MHz		
F [MHz]	Detector	Level [dB $\mu$ V/m]	F [MHz]	Detector	Level [dB $\mu$ V/m]	F [MHz]	Detector	Level [dB $\mu$ V/m]
4804	pk	37.3	4882	pk	40.5	4960	pk	39.3
Measurement uncertainty			±3 dB					

f < 1 GHz : RBW/VBW: 100 kHz

f ≥ 1GHz : RBW/VBW: 1 MHz

Limits: § 15.247 (c)

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Limits: § 15.209

Frequency [MHz]	Field strength [ $\mu$ V/m]	Measurement distance (m)
30 - 88	100 (40 dB $\mu$ V/m)	3
88 - 216	150 (43.5 dB $\mu$ V/m)	3
216 - 960	200 (46 dB $\mu$ V/m)	3
above 960	500 (54 dB $\mu$ V/m)	3

**5.14 Spurious Emissions - radiated (Receiver) § 15.109**

Plot: 0.03 - 1 GHz vertical/horizontal (receiver)

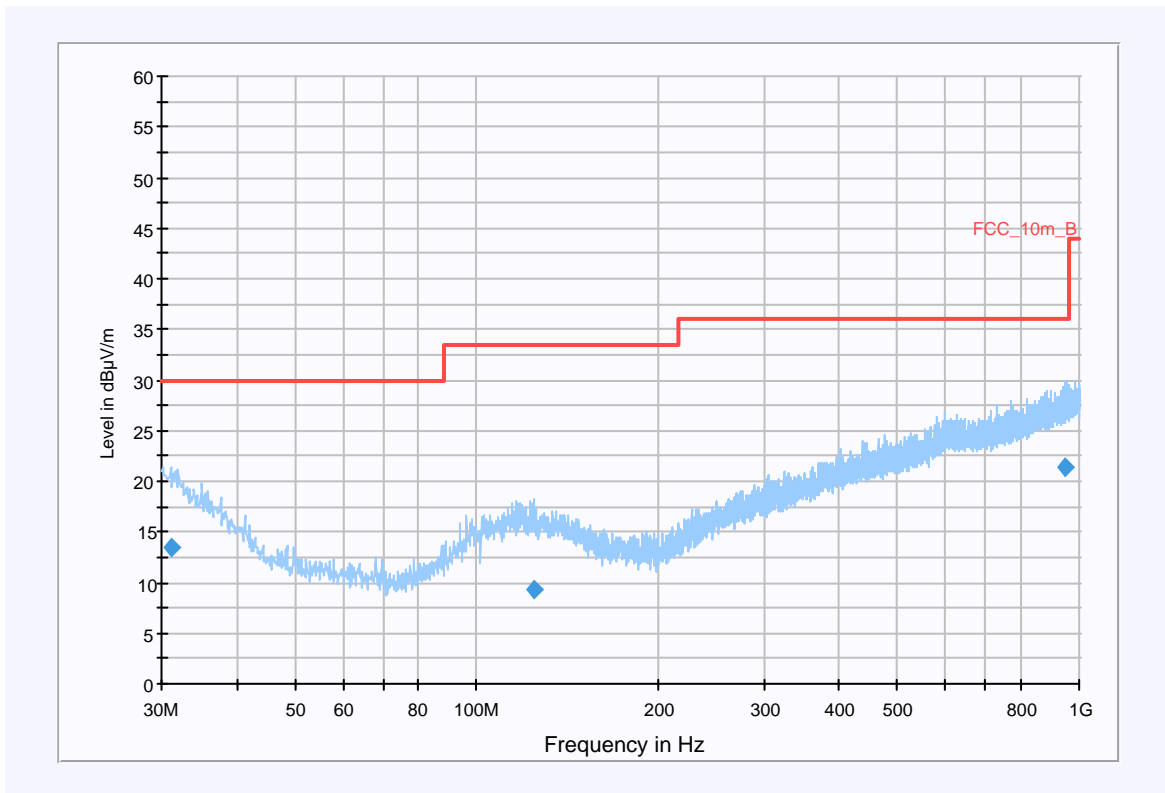
**Information**

EUT: VMX Office base station (502557) + 094707  
 Serial Number: RF3 + 805000003A1  
 Test Description: FCC @ 10 m  
 Operating Conditions: BT RX  
 Operator Name: Hennemann  
 Comment: AC: 115 V / 60 Hz

**Scan Setup: STAN\_Fin [EMI radiated]**

Hardware Setup: EMI radiated\Electric Field (NOS)  
 Level Unit: dBµV/m  
**Subrange**                      **Detectors**                      **IF Bandwidth**                      **Meas. Time**                      **Receiver**  
 30MHz - 1GHz                      QuasiPeak                      120kHz                      15s                      Receiver

**FCC\_Short\_1GHz**



**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
31.261950	13.4	120.000	120.0	H	233.0	17.3	16.6	30.0	
124.673650	9.3	120.000	120.0	H	247.0	13.7	24.2	33.5	
946.523950	21.3	120.000	120.0	H	156.0	24.5	14.7	36.0	



Hardware Setup: EMI radiated\Electric Field (NOS) - [EMI radiated]

Subrange 1

Frequency Range: 30MHz - 2GHz

Receiver: Receiver [ESCI 3]  
@ GPIB0 (ADR 20), SN 100083/003, FW 3.32, CAL 07.01.2009

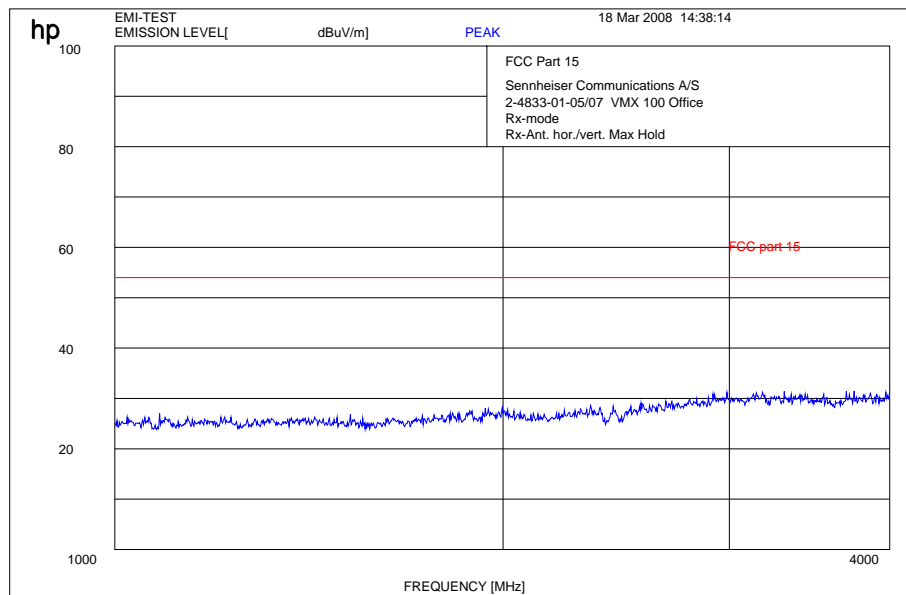
Signal Path: without Notch  
FW 1.0

Antenna: Chase Broadband BiLog Antenna CBL 6112  
SN 2110, FW A, CAL 07.01.2009  
Correction Table (vertical): Chase Broadband BiLog Antenna CBL 6112  
Correction Table (horizontal): Chase Broadband BiLog Antenna CBL 6112  
Correction Table: Cabel with switch (1007)

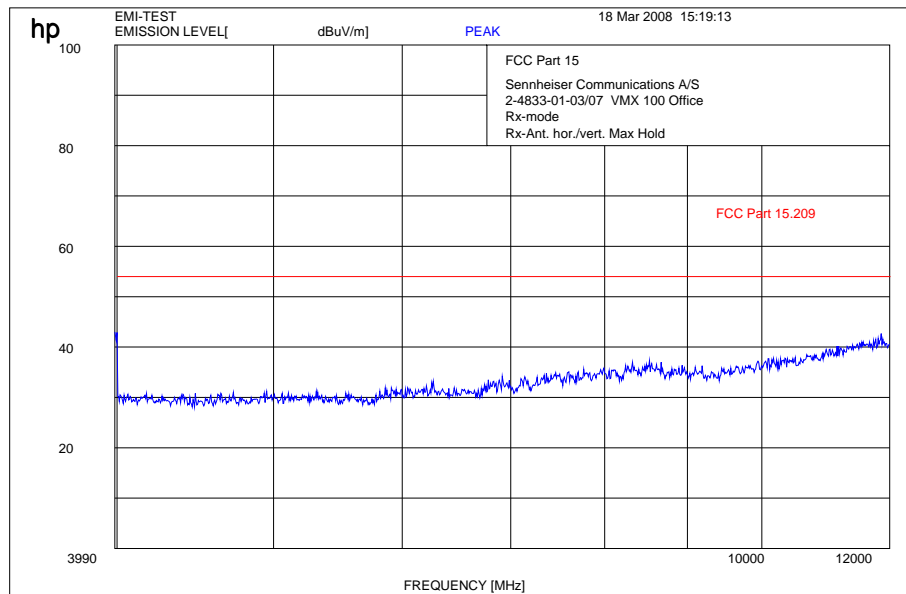
Antenna Tower: Tower [EMCO 2090 Antenna Tower]  
@ GPIB0 (ADR 8), FW REV 3.12

Turntable: Turntable [EMCO Turntable]  
@ GPIB0 (ADR 9)

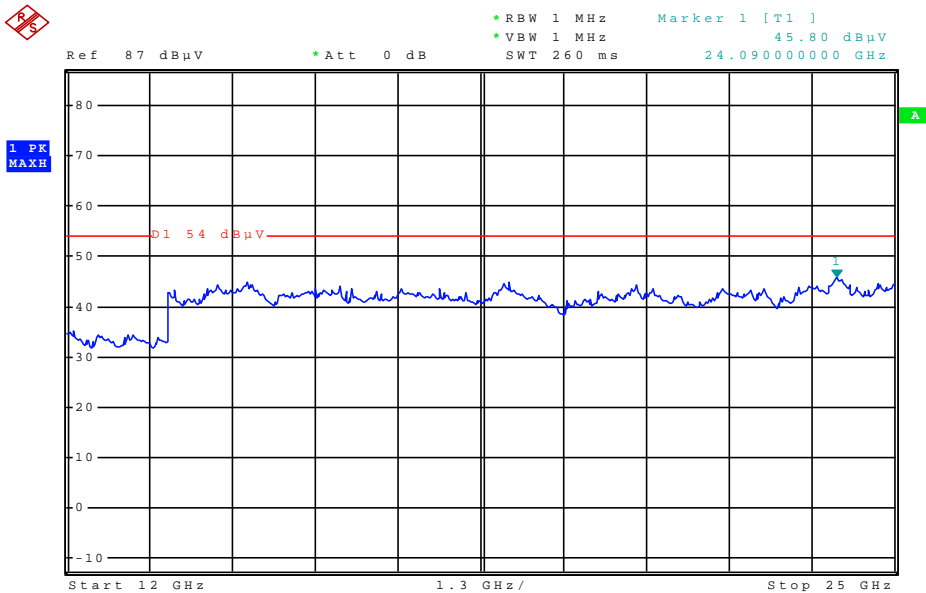
Plot: 1 - 4 GHz vertical/horizontal (receiver)



Plot: 4 - 12 GHz vertical/horizontal (receiver)



Plot: 12 - 25 GHz vertical/horizontal (receiver)



Result:

Spurious Emissions level [dB $\mu$ V/m]		
f[MHz]	Detector	Level [dB $\mu$ V/m]
No peaks found.		
Measurement uncertainty		±3 dB

f < 1 GHz: RBW/VBW: 100 kHz

f ≥ 1GHz : RBW/VBW: 1 MHz

See above plots

Measurement distance see table

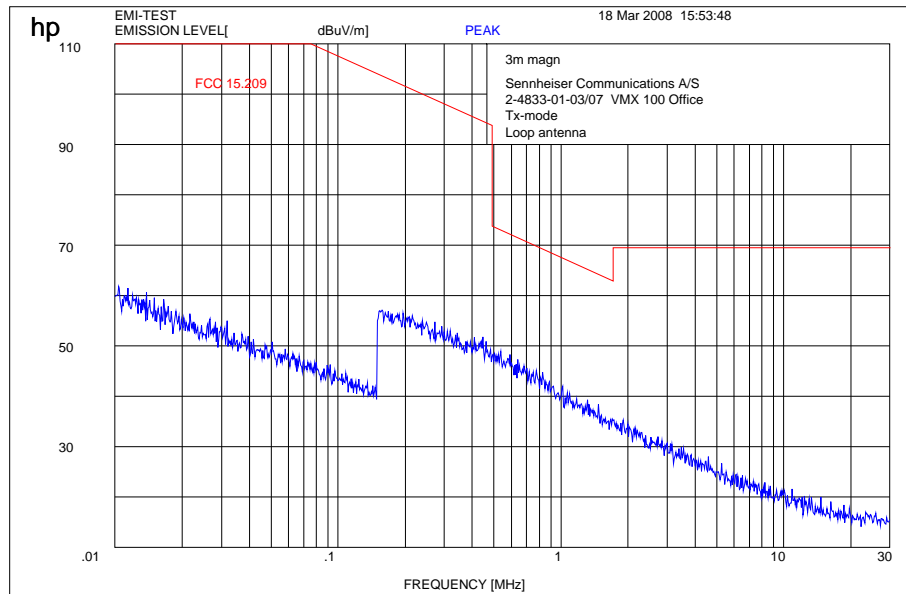
Limits: § 15.109

Frequency (MHz)	Field strength ( $\mu$ V/m)	Measurement distance (m)
30 - 88	100 (40 dB $\mu$ V/m)	3
88 - 216	150 (43.5 dB $\mu$ V/m)	3
216 - 960	200 (46 dB $\mu$ V/m)	3
above 960	500 (54 dB $\mu$ V/m)	3

**5.15 Spurious Emissions < 30 MHz - Transmitter radiated § 15.209**

Measured at 10 m distance.  
 Values recalculated with 40 dB/decade according to FCC rules.

Plot 1:

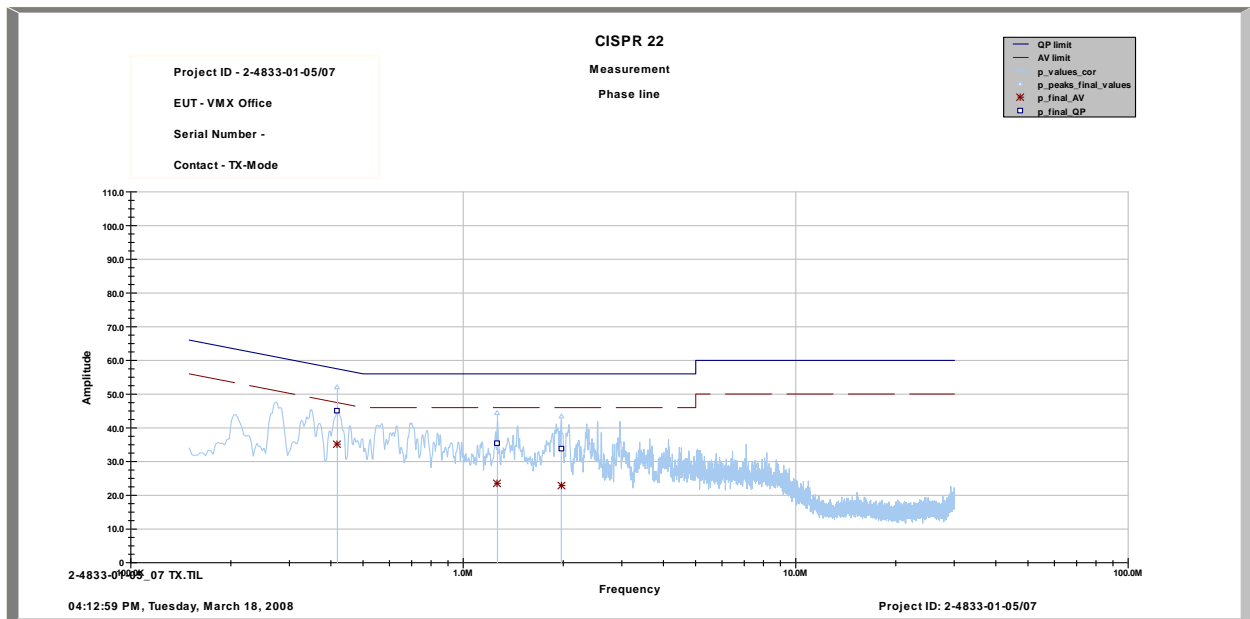
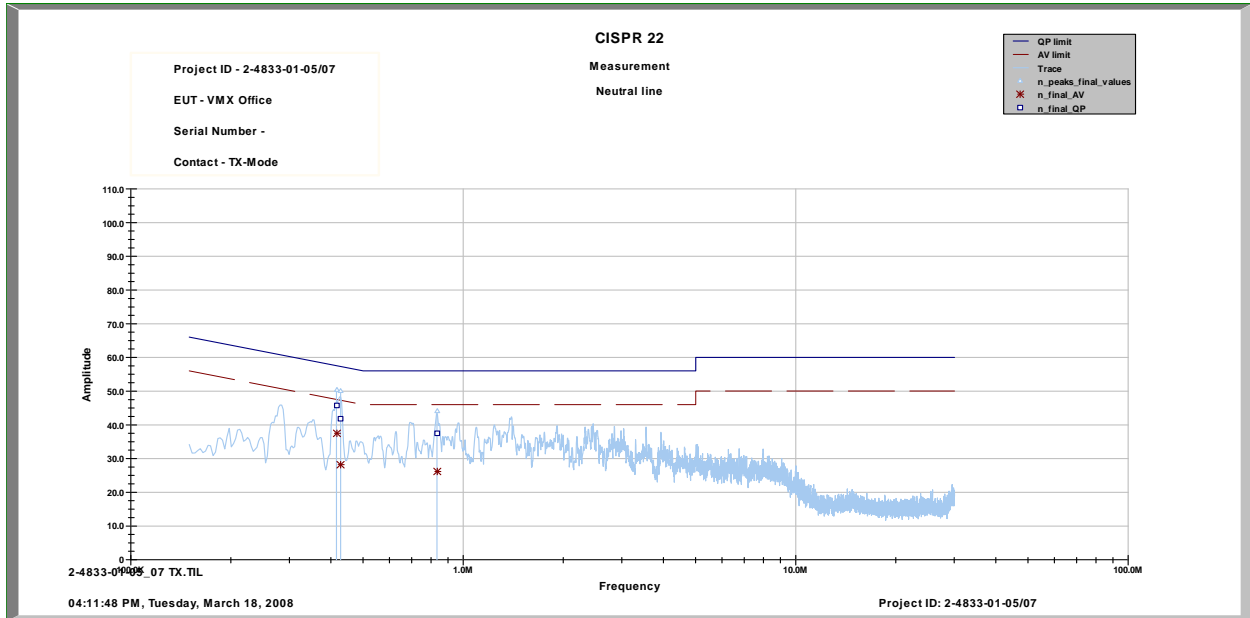


Limits:

Frequency (MHz)	Field strength ( $\mu\text{V/m}$ )	Measurement distance (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30 / 29.5 dB $\mu\text{V/m}$	30

5.16 Conducted Emissions <30 MHz § 15.107/207

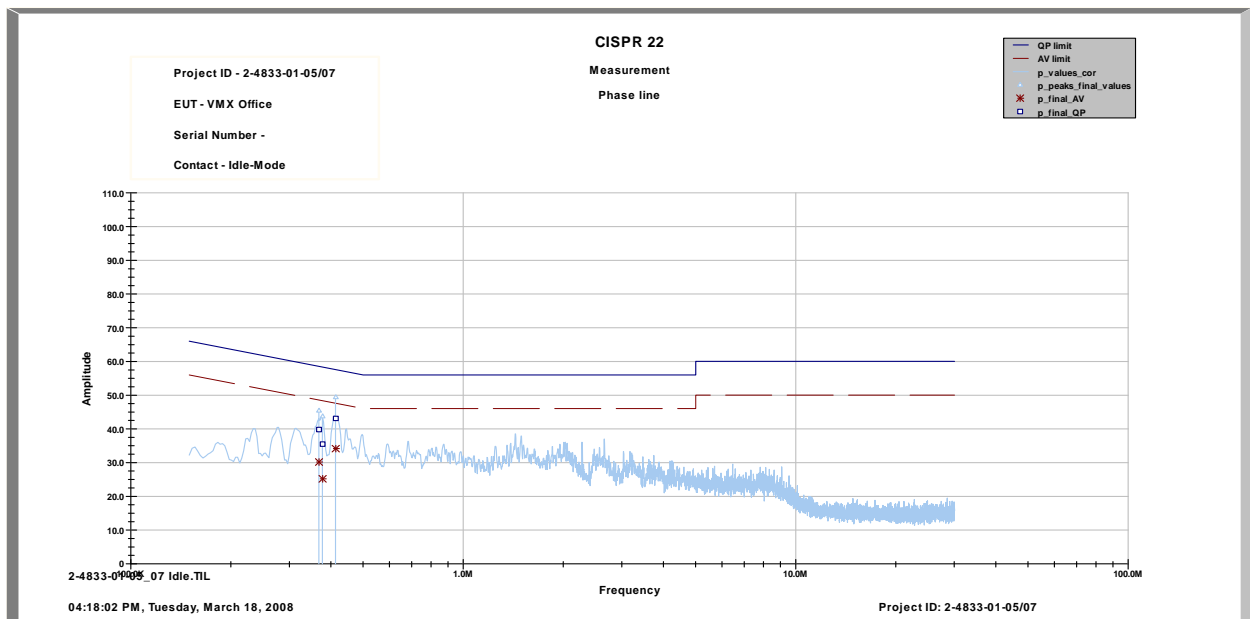
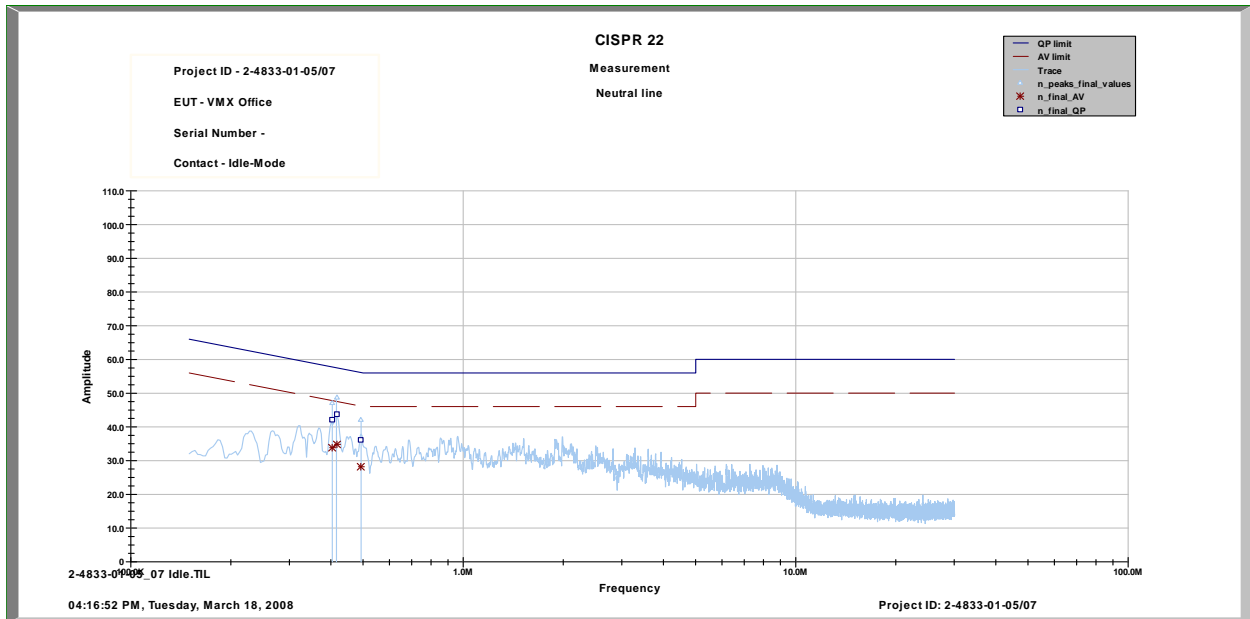
TX-Mode



Limits :

Under normal test conditions only	See plots
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Idle-Mode



Limits :

Under normal test conditions only	See plots
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## 6 Test equipment and ancillaries used for tests

To simplify the identification on each page of the test equipment used, on each page of the test report, each item of test equipment and ancillaries such as cables are identified (numbered) by the Test Laboratory, below.

### *Anechoic chamber C:*

No	Equipment/Type	Manuf.	Serial Nr.	Inv. No. Cetecom	Last Calibration	Frequency (months)	Next Calibration
1	Anechoic chamber	MWB	87400/02	300000996	Monthly verification		
2	System-Rack 85900	HP I.V.	*	300000222	n.a.		
3	Measurement System 1						
4	Spektrum Analyzer 8566B	HP	2747A05306	300001000	05.10.2006	24	05.10.2008
5	Spektrum Analyzer Display 85662A	HP	2816A16541	300002297	05.10.2006	24	05.10.2008
6	Quasi-Peak-Adapter 85650A	HP	2811A01131	300000999	05.10.2006	24	05.10.2008
7	RF-Preselector 85685A	HP	2837A00779	300000218	08.11.2006	24	08.11.2008
8	PC Vectra VL	HP		300001688	n.a.		
9	Software EMI	HP		300000983	n.a.		
10	Measurement System 2						
11	FSP 30	R&S	100623	ICT 300003464	05.10.2007	24	15.10.2009
12	PC	F+W			n.a.		
13	TILE	TILE			n.a.		
14	Biconical antenna	EMCO	S/N: 860 942/003		Monthly verification (System cal.)		
15	Log. Period. Antenna 3146	EMCO	2130	300001603	Monthly verification (System cal.)		
16	Double Ridged Antenna HP 3115P	EMCO	3088	300001032	Monthly verification (System cal.)		
17	Active Loop Antenna 6502	EMCO	2210	300001015	Monthly verification (System cal.)		
18	Power Supply 6032A	HP	2818A03450	300001040	12.05.2007	36	12.05.2010
19	Busisolator	Kontron		300001056	n.a.		
20	Leitungsteiler 11850C	HP		300000997	Monthly verification (System cal.)		
21	Power attenuator 8325	Byrd	1530	300001595	Monthly verification (System cal.)		
22	Band reject filter WRCG1855/1910	Wainwright	7	300003350	Monthly verification (System cal.)		
23	Band reject filter WRCG2400/2483	Wainwright	11	300003351	Monthly verification (System cal.)		

*System Rack Room 005 :*

No	Equipment/Type	Manuf.	Serial Nr.	Inv. No. Cetecom	Last Calibration	Frequency (months)	Next Calibration
1	FSP 30	R&S		300003575	02.04.2007	24	02.04.2009
2	CBT	R&S	100313	300003516	24.10.2006	24	24.10.2008
3	Switch Matrix	HP		300000929	n.a.		
4	Power Supply	HP	3041A00544	300002270	13.05.2007	36	13.05.2010
5	Signal Generator	R&S	836206/0092	300002680	30.05.2007	36	30.05.2010

*Signalling Units:*

No	Equipment/Type	Manuf.	Serial Nr.	Inv. No. Cetecom	Last Calibration	Frequency (months)	Next Calibration
1	CBT	R&S	100313	300003516	24.10.2006	24	24.10.2008
2	CBT	R&S	100185	300003416	21.02.2006	24	21.02.2008
3	CMU-200	R&S	103992	300003231	27.04.2007	12	27.04.2008
4	CMU-200	R&S	106240	300003321	02.05.2006	24	02.05.2008

*SRD Laboratory Room 002:*

No	Equipment/Type	Manuf.	Serial Nr.	Inv. No. Cetecom	Last Calibration	Frequency (months)	Next Calibration
1	System Controller PSM 12	R&S	835259/007	3000002681-00xx	n.a.		
2	Memory Extension PSM-K10	R&S	To 1	3000002681	n.a.		
3	Operating Software PSM-B2	R&S	To 1	3000002681	n.a.		
4	19" Monitor		22759020-ED	3000002681	n.a.		
5	Mouse		LZE 0095/6639	3000002681	n.a.		
6	Keyboard		G00013834L 461	3000002681	n.a.		
7	Spectrum Analyser FSIQ 26	R&S	835540/018	3000002681-0005	01.08.2006	24	01.08.2008
8	Tracking Generator FSIQ-B10	R&S	835107/015	3000002681	s.No.7		
10	RF-Generator SMIQ03 (B1 Signal)	R&S	835541/056	3000002681-0002	01.08.2006	36	01.08.2009
11	Modulation Coder SMIQ-B20	R&S	To 10	3000002681	s.No.10		
12	Data Generator SMIQ-B11	R&S	To 10	3000002681	s.No.10		
13	RF Rear Connection SMIQ-B19	R&S	To 10	3000002681	s.No.10		
14	Fast CPU SM-B50	R&S	To 10	3000002681	s.No.10		
15	FM Modulator SM-B5	R&S	835676/033	3000002681	s.No.10		
16	RF-Generator SMIQ03 (B2 Signal)	R&S	835541/055	3000002681-0001	01.08.2006	36	01.08.2009
17	Modulation Coder SMIQ-B20	R&S	To 16	3000002681	s.No.16		
18	Data Generator SMIQ-B11	R&S	To 16	3000002681	s.No.16		



19	RF Rear Connection SMIQ-B19	R&S	To 16	3000002681	s.No.16		
20	Fast CPU SM-B50	R&S	To 16	3000002681	s.No.16		
21	FM Modulator SM-B5	R&S	836061/022	3000002681	s.No.16		
22	RF-Generator SMP03 (B3 Signal)	R&S	835133/011	3000002681-0003	01.08.2006	36	01.08.2009
23	Attenuator SMP-B15	R&S	835136/014	3000002681	S.No.22		
24	RF Rear Connection SMP-B19	R&S	834745/007	3000002681	S.No.22		
25	Power Meter NRVD	R&S	835430/044	3000002681-0004	01.08.2006	24	01.08.2008
26	Power Sensor NRVD-Z1	R&S	833894/012	3000002681-0013	01.08.2006	24	01.08.2008
27	Power Sensor NRVD-Z1	R&S	833894/011	3000002681-0010	01.08.2006	24	01.08.2008
28	Rubidium Standard RUB	R&S		3000002681-0009	01.08.2006	24	01.08.2008
29	Switching and Signal Conditioning Unit SSCU	R&S	338864/003	3000002681-0006	01.08.2006	24	01.08.2008
30	Laser Printer HP Deskjet 2100	HP	N/A	3000002681-0011	n.a.		
31	19" Rack	R&S	11138363000004	3000002681	n.a.		
32	RF-cable set	R&S	N/A	3000002681	n.a.		
33	IEEE-cables	R&S	N/A	3000002681	n.a.		
34	Sampling System FSIQ-B70	R&S	835355/009	3000002681	s.No.7		
35	RSP programmable attenuator	R&S	834500/010	3000002681-0007	01.08.2006	24	01.08.2008
36	Signalling Unit	R&S	838312/011	3000002681	n.a.		
37	NGPE programmable Power Supply for EUT	R&S	192.033.41	3000002681			
38	Climatic box VT 4002	Heraeus Vötsch	58566046820010	300003019	11.05.2007	24	11.05.2009
39	Signaling Unit CMU200	R&S	832221/0055	300002862	12.01.2006	24	12.01.2008
40	Power Splitter 6005-3	Inmet Corp.	none	300002841	23.12.2006	24	23.12.2008
41	SMA Cables SPS-1151-985-SPS	Insulated Wire	different	different	n.a.		
42	CBT32 with EDR Signaling Unit	R&S					
43	Coupling unit	Narda	N/A	--	n.a.		
44	2xSwitch Matrix PSU	R&S	872584/021	300001329	n.a.		
45	RF-cable set	R&S	N/A	different	n.a.		
46	IEEE-cables	R&S	N/A	--	n.a.		

Anmerkung: 3000002681-00xx als Systeme inventarisiert

**SRD Laboratory Room 005:**

No	Equipment/Type	Manuf.	Serial Nr.	Inv. No. Cetecom	Last Calibration	Frequency (months)	Next Calibration
1	Spektrum Analyzer 8566B	HP	2747A05275	300000219	08.11.2006	24	08.11.2008
2	Spektrum Analyzer Display 85662A	HP	2816A16497	300001690	08.11.2006	24	08.11.2008
3	Quasi-Peak-Adapter 85650A	HP	2811A01135	300000216	08.11.2006	24	08.11.2008
4	Power Supply	Heiden	003202	300001187	12.05.2007	36	12.05.2010
5	Power Supply	Heiden	1701	300001392	12.05.2007	36	12.05.2010

**C.BER Bluetooth Rack Room AC2:**

No	Equipment/Type	Manufact.	Inv. No. Cetecom	Last Calibration	Frequency (months)	Next Calibration
1	System Controller with XP Prof. & C.BER Control Software	F&W	300003580	na		
2	GPIO to USB Converter	Agilent	300003426	na		
3	Spectrum Analyser FSIQ26	R&S	300002681-005	1.08.2006	24	1.08.2008
	Sampling System FSIQ-B70	R&S	300002681-005	1.08.2006	24	1.08.2008
	Tracking Generator FSIQ-B10 for FSIQ26	R&S	300002681-005	1.08.2006	24	1.08.2008
4	RF-Generator SMIQ03 (Interferer Signal)	R&S	300002681-001	1.08.2006	24	1.08.2008
	Modulation Coder SMIQ-B20	R&S	300002681-001	1.08.2006	24	1.08.2008
	Data Generator SMIQ-B11	R&S	300002681-001	1.08.2006	24	1.08.2008
	RF Rear Connection SMIQ-B19	R&S	300002681-001	1.08.2006	24	1.08.2008
	Fast CPU SM-B50	R&S	300002681-001	1.08.2006	24	1.08.2008
	FM Modulator SM-B5	R&S	300002681-001	1.08.2006	24	1.08.2008
5	Rubidium Standard RUB	R&S	300002681-009	1.08.2006	24	1.08.2008
6	Switching Unit 3488A including 2 44476A cards	HP	300000926	Verified with path compensation		
	44472A VHF switch	HP	300000926	Verified with path compensation		
7	Signalling Unit: CBT with EDR	R&S	300003416	24.06.2006	24	24.06.2008
8	RF-cable set	different	no	Verified with path compensation		
9	IEEE-cables	R&S	no	na		
10	NGPE programmable Power Supply for EUT	R&S	400000078	1.08.2006	24	1.08.2008
11	Coupling Unit 4324-2	Narda	no	Verified with path compensation		
12	Climatic Chamber VT4002	Voetch	300003019	11.05.2207	24	11.05.2009
13	6 dB Attenuator 1W	Narda	no	Verified with path compensation		
14	DCBlocker 30 MHz to 12.75 GHz 1W	Narda	no	Verified with path compensation		

*Anechoic chamber F:*

No.	Instrument/Ancillary	Manufacturer	Type	Serial-No.	Internal identification
<b>Radiated emission in chamber F</b>					
F-1	Control Computer	F+W		FW0502032	300003303
F-2	Bilog antenna	Chase	CBL 6112A	2110	300000573
F-3a	Amplifier	Veritech Microwave Inc.	0518C-138	- / -	- / -
F-4b	Switch	HP	3488A	- / -	300000368
F-5	EMI Test receiver	R&S	ESCI	100083	300003312
F-6	Turntable Controller	EMCO	1061 3M	1218	300000661
F-7	Tower Controller	EMCO	1051 Controller	1262	300000625
F-8	Tower	EMCO	1051 Tower	1262	300000625
F-9	Ultra Notch-Filter Rejected band Ch. 62	WRCD		9	
<b>Radiated immunity in chamber F</b>					
F-10	Control Computer	F+W		FW0502032	300003303
F-11	Signal Generator	R&S	SML 03	102519	300003407
F-12	RF-Amplifier	ar	50W1000	12932	300001438
F-13	Directional Coupler	ar	DC 3010	12708	300001428
F-14	Logper Antenna	R&S	HL023A1	323704/016	300001476
F-15	RF-Amplifier	ar	60S1G3	313649	300003410
F-16	Directional Coupler	ar	DC7144A	312786	300003411
F-17	Horn Antenna	ar	AT 4002	19739	300000633
F-18	Power Meter	R&S	NRV	860327/024	F033
F-19	Power sensor	R&S	URV5-Z2	839080/005	300002844.02
F-20	Power sensor	R&S	URV5-Z2	830755/057	F032
<b>Harmonics and flicker in front of chamber F</b>					
F-21	Flicker and Harmonics Test System	Spitzenberger & Spies	PHE4500/B I PHE4500/B II	B5983 B5984	300000210
F-22	Control Unit	Spitzenberger & Spies	STE	B5980	300000210
F-23	Power Amplifier	Spitzenberger & Spies	EP 4500/B	B5976	300000210
F-24	Conect Panel	Spitzenberger & Spies	Conect panel	B5982	300000210
F-25	Power Supply	Spitzenberger & Spies	NT-EP 4500	B3977	300000210
F-26	Additional transformer	Spitzenberger & Spies	UT-EP 4500	B5978	300000210
F-27	Analyzer Reference System	Spitzenberger & Spies	ARS 16/1	A3509 07/0 0205	300003314
F-26	Power Supply	Hewlett Packard	6032 A	2920 A 04466	300000580

**7 Photographs of the Test Set-up**

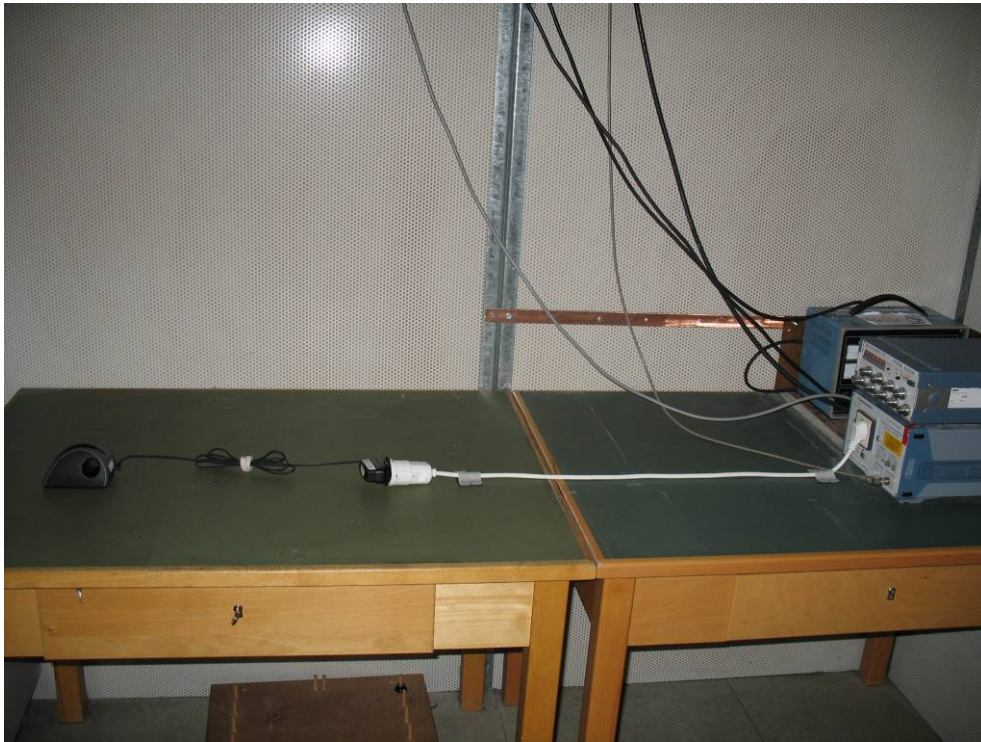
Photo 1: Radiated



Photo 2: Radiated



Photo 3: Conducted



**8 Photographs of the EUT**

Photo 4:



Photo 5:



Photo 6:



Photo 7:



Photo 8:



Photo 9:





Photo 10:



Photo 11:



Photo 12:



Photo 13:

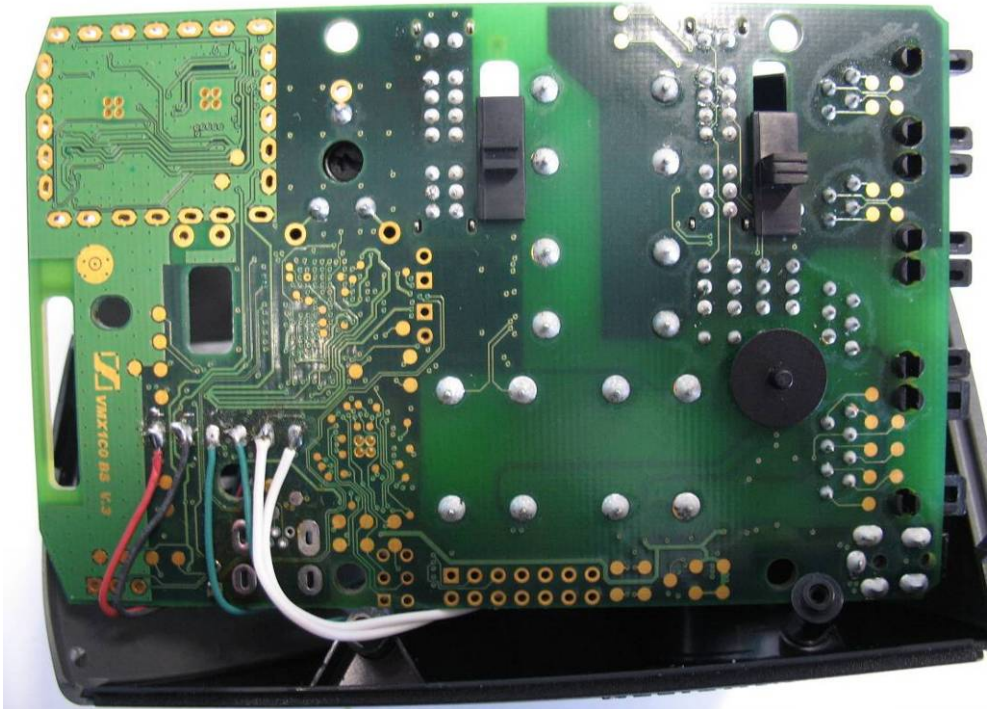


Photo 14:



Photo 15:

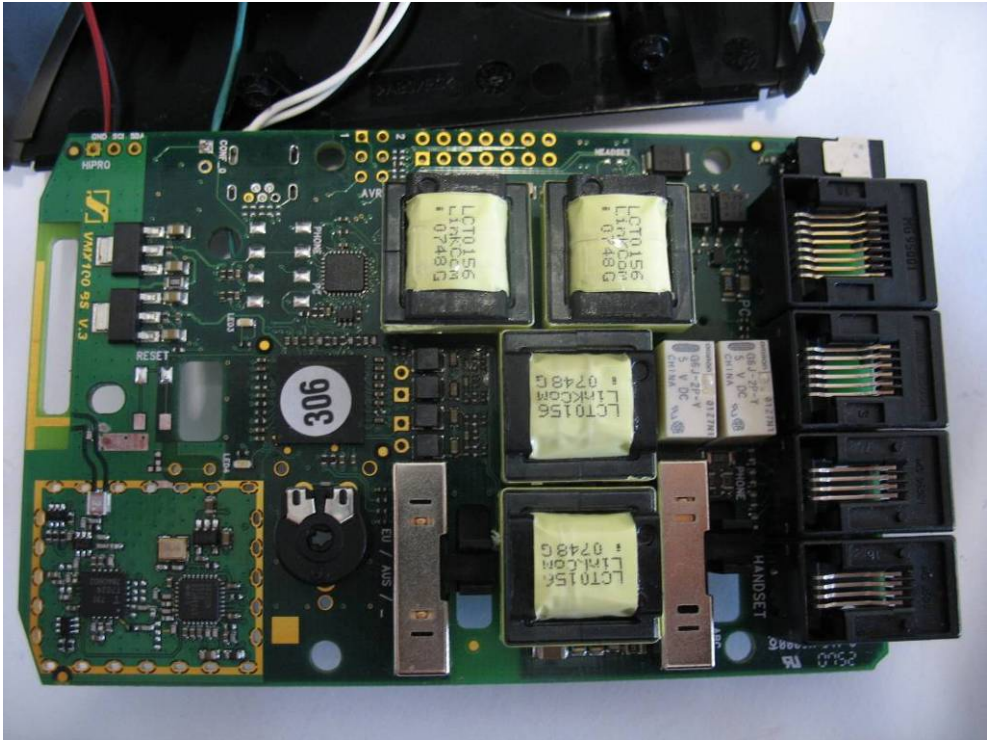


Photo 16:

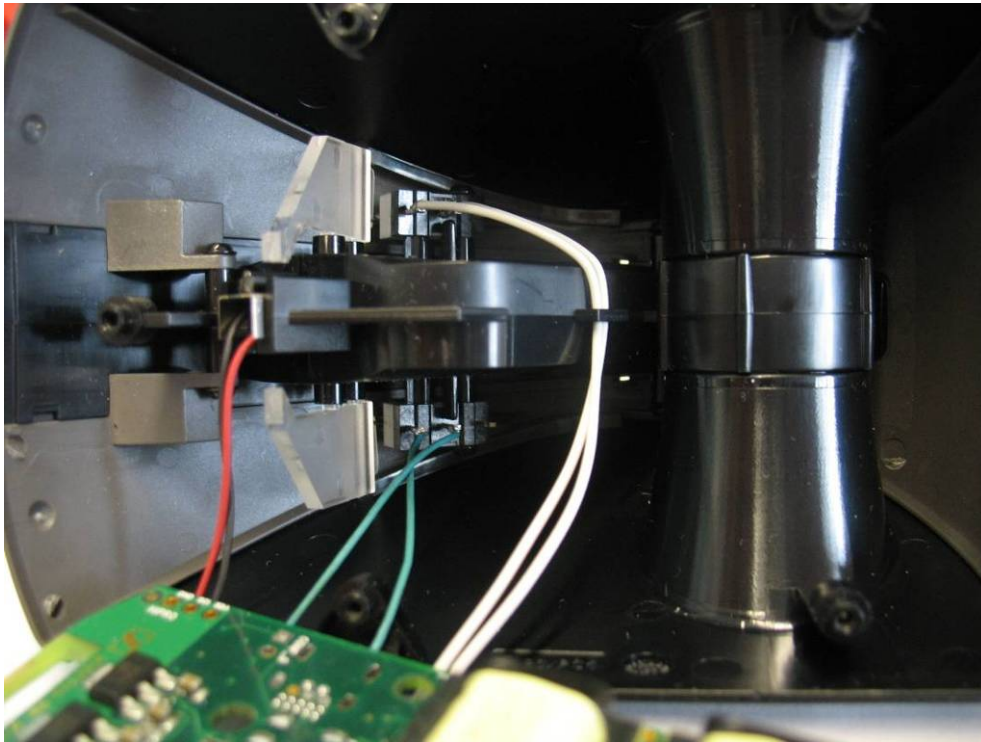


Photo 17:



Photo 18:

