Test report no.: 2-4832-01-02/07





### **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<sup>®</sup> Test Facility (BQTF)
The Bluetooth word mark and logos are owned by the Bluetooth SIG,

Inc. and any use of such marks by Cetecom ICT is under license

Test report no. : 2-4832-01-02/07 Type identification: V300AM (Fix Part)

Applicant : Siemens Home and Office Communication

FCC ID : TVU-V300AM IC Certification No: 267U-V300AM Test standards : 47 CFR Part 15

**RSS - 210 Issue 7** 

2008-01-04 Page 1 of 30

Test report no.: 2-4832-01-02/07



### **Table of contents**

1	1 General information	3
	1.1 Notes	3
	1.2 Testing laboratory	
	1.3 Details of applicant	
	1.4 Application details	4
2	2 Test standard/s:	5
3	3 Technical tests	6
	3.1 Details of manufacturer	
	3.1.2 Additional EUT information For IC Canada (appendix 2)	
	3.1.2 Additional EOT information For IC Canada (appendix 2)	
	3.2.1 RF Technical Brief Cover Sheet acc. To RSS-102	Q
	3.2.2 EUT operating modes	
	3.2.3 Extreme conditions testing values	
4	<u> </u>	
4	4 Summary of Measurement Results and list of all performed test cas	es11
5	5 RF measurement testing	12
	5.1 Description of test set-up	12
	5.1.1 Radiated measurements	
	5.1.2 Conducted measurements	12
	5.2 Referenced Documents	13
	5.3 Additional comments	
	5.4 Antenna gain	
	5.5 Max. peak output power (radiated)	
	5.6 Spurious Emissions - radiated (Transmitter)	
	5.7 Spurious Emissions - radiated (Receiver)	
	5.8 Spurious Emissions - radiated <30 MHz	
	5.9 Conducted Emissions <30 MHz	
6	6 Test equipment and ancillaries used for tests	24
7	7 Photographs of the Test Set-up Fehler! Textma	rke nicht definiert.
0	R Photographs of the EUT Febler! Textma	rke nicht definiert

Test report no.: 2-4832-01-02/07



#### 1 General information

#### 1.1 Notes

The test results of this test report relate exclusively to the test item specified in 1.5. 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:** 

**2008-01-04 Reschke Jakob** 

Date Name Signature

**Technical responsibility for area of testing:** 

**2008-01-04** Berg Michael

Date Name Signature

2008-01-04 Page 3 of 30

Test report no.: 2-4832-01-02/07



#### 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

Name: Siemens Home and Office Communication

Street: Frankenstr. 2
Town: D-46395 Bocholt

Country: Germany

Telephone: +49 (0) 2871 91-0 Fax: +49 (0) 2871 91-24 95

Contact: Uwe Alt

E-mail: uwe.alt@siemens.com Telephone: +49 (0) 2871 91-28 57

#### 1.4 Application details

Date of receipt of order: 2007-12-06

Date of receipt of test item: 2008-01-03

 Date of start test:
 2008-01-03

 Date of end test
 2008-01-04

Persons(s) who have been present during the test: --

2008-01-04 Page 4 of 30

Test report no.: 2-4832-01-02/07



#### 2 Test standard/s:

47 CFR Part 15 2007-09 Title 47 of the Code of Federal Regulations; Chapter I-

**Federal Communications Commission** 

subchapter D - Unlicensed Personal Communications Service

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

2008-01-04 Page 5 of 30

Test report no.: 2-4832-01-02/07



### 3 Technical tests

#### 3.1 Details of manufacturer

Name:	Siemens Home and Office Communication
Street:	Frankenstr. 2
Town:	D-46395 Bocholt
Country:	Germany

#### 3.1.1 Test item

Kind of test item	:	DECT (Fix Part)
Type identification	:	V300AM
S/N serial number	:	-/-
HW hardware status	:	A5B00901008507
SW software status	:	V 12
Frequency Band [MHz]	:	1920 – 1930 MHz
Type of Modulation	:	GFSK
Number of channels	:	12
Antenna	:	Integrated antenna
Power Supply	:	110 V AC
Temperature Range	:	23 °C

Max. power radiated: 19.39 dBm

2008-01-04 Page 6 of 30

Test report no.: 2-4832-01-02/07



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

IC Registration Number:	267U
Model Name:	V300AM (DECT Base Station)
Manufacturer (complete Address):	Siemens Home and Office Communication
	Frankenstr. 2
	D-46395 Bocholt
	Germany
Tested to Radio Standards Specification (RSS) No.:	RSS-210 Issue 7
Open Area Test Site Industry Canada Number:	IC 3463A-1
Frequency Range (or fixed frequency) [MHz]:	1920 – 1930 MHz
RF: Power [W] (max):	Rad. EIRP: 86.90 mW
Antenna Type:	Integrated antenna
Occupied Bandwidth (99% BW) [kHz]:	Not measured
Type of Modulation:	GFSK
Emission Designator (TRC-43):	-/-
Transmitter Spurious (worst case) [µV/m in 3m]:	No critical peaks detected.
Receiver Spurious (worst case) [µV/m in 3m]:	Not applicable

#### **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:

<u>Test engineer:</u> Jakob Reschke <u>Date:</u> 2008-01-04

2008-01-04 Page 7 of 30

Test report no.: 2-4832-01-02/07



#### 3.2 Prediction of MPE limit at given distance

 $S = EIRP / 4\pi R^2$ 

where: EIRP = Equivalent isotropic radiated power

S = Power density

R = Distance to the center of radiation of the antenna

The table below is excerpted from Table 1B of 47 CFR 1.1310 titled "Limits for Maximum Permissible Exposure (MPE), Limits for General Population/Uncontrolled Exposure"

Frequency Range (MHz)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minutes)
300 -1500	f/1500	30
1500 - 100000	1.0	30

where f = Frequency (MHz)

#### Prediction:

EIRP Equivalent isotropic radiated power: 19.38 dBm / 86.7 mW

R Distance: 20 cm S MPE limit for uncontrolled exposure: 1 mW/cm²

Calculated Power density: 0.017 mW/cm<sup>2</sup>

#### This prediction demonstrates the following:

The power density levels at a distance of 20 cm are below the maximum levels allowed by FCC regulations.

2008-01-04 Page 8 of 30

Test report no.: 2-4832-01-02/07



#### 3.2.1 RF Technical Brief Cover Sheet acc. To RSS-102

All Fields must be completed with the requested information or the following codes: N/A for Not Applicable, N/P for Not Performed or N/V for Not Available. Where applicable, check appropriate box.

1.	COMF	PANY	NUN	/IBER:	<b>267U</b>
----	------	------	-----	--------	-------------

- 2. MODEL NUMBER: V300AM
- 3. MANUFACTURER: Siemens Home and Office Communication
- 4. TYPE OF EVALUATION: --

#### (c) RF Evaluation:

• E	valuated against	exposure limits:	General Public	Use 🖂	Controlled Use	Т
-----	------------------	------------------	----------------	-------	----------------	---

- Duty cycle used in evaluation: 99%
- Standard used for evaluation: RSS-102 Issue 2 (2005-11)
- Measurement distance: 10 / 5 / 3 m
- RF value: 0.17 dBm  $\square$  V/m  $\square$  A/m  $\square$  W/m  $^2$

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: Jakob Reschke Title: Engineer

Company: Cetecom ICT Services GmbH

2008-01-04 Page 9 of 30

Test report no.: 2-4832-01-02/07



### 3.2.2 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			

<sup>\*)</sup> EUT operating mode no. is used to simplify the test plan

### 3.2.3 Extreme conditions testing values

Description	Shortcut	Unit	Value
Nominal Temperature	$T_{nom}$	°C	23
Nominal Humidity	H <sub>nom</sub>	%	45
Nominal Power Source	V <sub>nom</sub>	V	110

Type of power source: AC

Deviations from these values are reported in chapter 2

2008-01-04 Page 10 of 30

Test report no.: 2-4832-01-02/07



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

 $\boxtimes$	No deviations from the technical specifications were a	scertain
$\boxtimes$	No deviations from the technical specifications were a	scertain

	L	╛	There were	deviations	from the	technical	specifications	ascertained
--	---	---	------------	------------	----------	-----------	----------------	-------------

TC identifier	Description	verdict	date	Remark
RF-Testing	FCC Part 15 §15 - CANADA RSS-210	PASS	2008-01-04	PASS

Test Case	Pass	Fail	Not applicable	Not performed
Max. peak output power (radiated)	Yes			
Spurious Emission - conducted (Transmitter)	Yes			
Spurious Emission -radiated (Transmitter)	Yes			
Spurious Emissions-radiated (Receiver)			Yes	
Spurious Emissions-radiated <30 MHz	Yes			
Conducted Emissions <30 MHz	Yes			

2008-01-04 Page 11 of 30



### 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 20 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 set-ups 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.

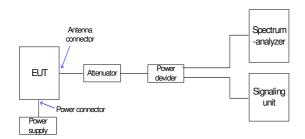
Antennas are confirmed with ANSI C63.2-1996 item 15.

9 kHz - 150 MHz: 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, bi-conical antenna 200MHz - 1GHz: Quasi Peak measurement, 120 kHz Bandwidth, log periodic antenna >1GHz: Average, RBW 1MHz, VBW 10 Hz, wave guide horn

All measurement settings are according to FCC 15.209 and 15.207

#### 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 connected to the spectrum analyzer. The specific losses for signal path are first checked within a calibration. The measurement readings on the 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.



2008-01-04 Page 12 of 30

Test report no.: 2-4832-01-02/07



#### 5.2 Referenced Documents

2-4189/05

#### 5.3 Additional comments

None

#### 5.4 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.

#### Not measured

	low channel	mid channel	high channel
Conducted power [dBm]			
Radiated power [dBm]			
Gain [dBi]	1		

2008-01-04 Page 13 of 30

Test report no.: 2-4832-01-02/07



### 5.5 Max. peak output power (radiated)

#### Results:

Test conditions		Max. peak output power EIRP [dBm]			
Frequency [MHz]		1921.536 MHz 1924.992 MHz 1928.448 M			
T <sub>nom</sub> V <sub>nom</sub>		19.39 19.39 18.96			
Measurement uncertainty		±3dB			

RBW / VBW: 10 MHz

Limits:

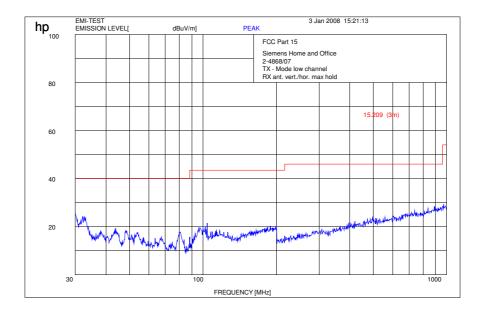
Under normal test conditions only, for frequency range 1920-1930 MHz	Max. 112 mW
--	-------------

2008-01-04 Page 14 of 30

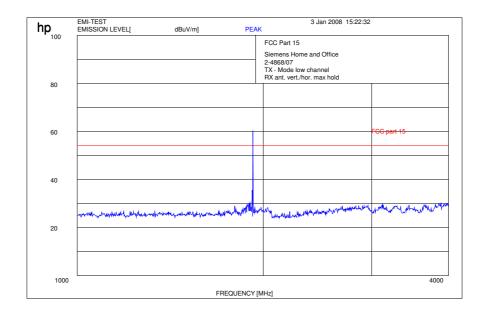


### 5.6 Spurious Emissions - radiated (Transmitter)

Plot 1: 0.03 - 1 GHz (lowest channel)



Plot 2: 1 - 4 GHz (lowest channel)

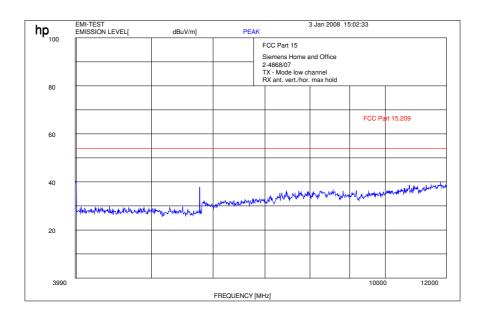


Carrier notched with rejection filter.

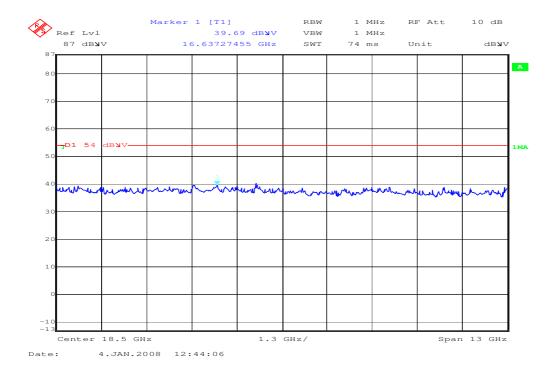
2008-01-04 Page 15 of 30



Plot 3: 4 - 12 GHz (lowest channel)



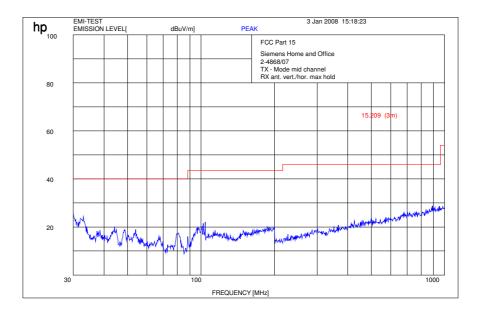
Plot 4: 12 - 25 GHz (valid for all channels)



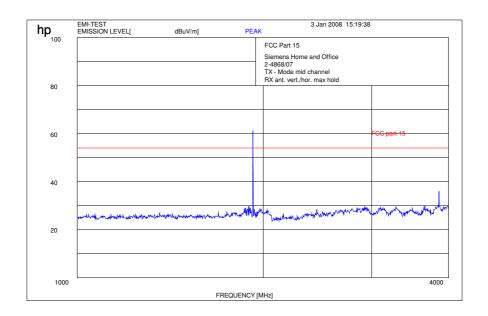
2008-01-04 Page 16 of 30



Plot 5: 0.03 - 1 GHz (middle channel)



Plot 6: 1 - 4 GHz (middle channel)

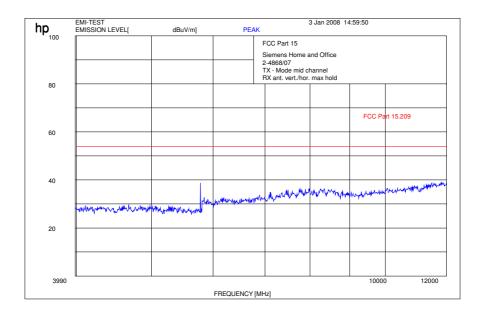


Carrier notched with rejection filter.

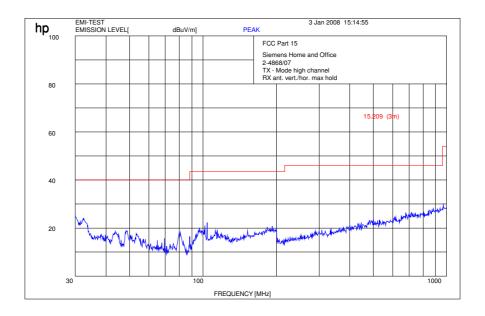
2008-01-04 Page 17 of 30



Plot 7: 4 - 12 GHz (middle channel)



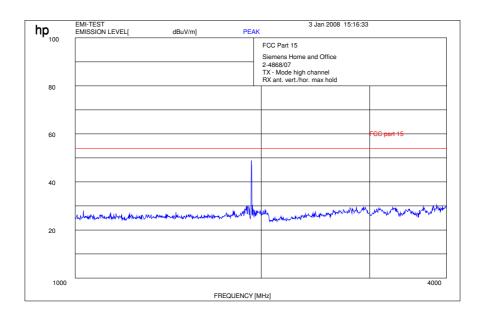
Plot 8: 0.03 - 1 GHz (highest channel)



2008-01-04 Page 18 of 30

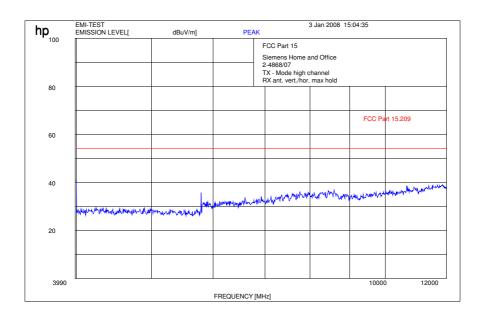


Plot 9: 1 - 4 GHz (highest channel)



Carrier notched with rejection filter.

Plot 10: 4 - 12 GHz (highest channel)



2008-01-04 Page 19 of 30

Test report no.: 2-4832-01-02/07



#### Results:

	SPURIOUS EMISSIONS LEVEL §15.209								
1921.536 MHz			1	924.992 MH	[z	1	1928.448 MHz		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	
No cr	itical peaks f	ound.	3880	Peak	37.0	No cr	ritical peaks	found.	
Measureme	nt uncertaint	ty	±3 dB						

f < 1 GHz : RBW/VBW : 100 kHz  $f \ge 1 \text{GHz} : \text{RBW/VBW} : 1 \text{ MHz}$ 

Limits: § 15.209

Frequency [MHz]	Field strength [μV/m]	Measurement distance (m)
30 - 88	100 (40 dBμV/m)	3
88 - 216	150 (43.5 dBμV/m)	3
216 - 960	200 (46 dBμV/m)	3
above 960	500 (54 dBμV/m)	3

2008-01-04 Page 20 of 30

Test report no.: 2-4832-01-02/07



### 5.7 Spurious Emissions - radiated (Receiver)

#### Not applicable!

#### The DECT base station has no receiver mode!

Results:

	Spurious Emissions level [dBµV/m]							
f[MHz]	Detect	tor	Level [dBµV/m]					
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 / 209

Frequency (MHz)	Field strength (µV/m)	Measurement distance (m)
30 - 88	100 (40 dBμV/m)	3
88 - 216	150 (43.5 dBμV/m)	3
216 - 960	200 (46 dBμV/m)	3
above 960	500 (54 dBμV/m)	3

2008-01-04 Page 21 of 30

Test report no.: 2-4832-01-02/07

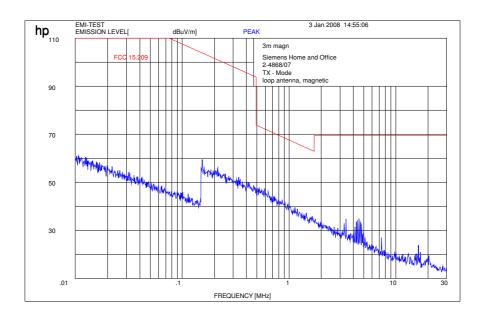


### 5.8 Spurious Emissions - radiated <30 MHz

Measured at 3 m distance.

Values recalculated with 40 dB/decade according to FCC rules.

#### Plot 1:



#### Limits:

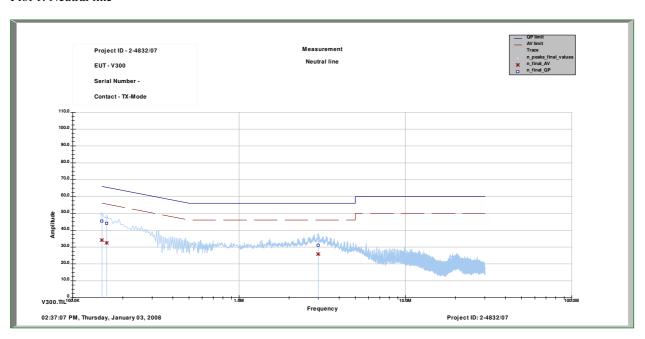
Frequency (MHz)	Field strength (µV/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30 / 29.5 dBμV/m	30
30 - 88	100 / 40 dBμV/m	3
88 - 216	150 / 43.5 dBμV/m	3
216 - 960	200 / 46 dBμV/m	3
above 960	54 dBμV/m	3

2008-01-04 Page 22 of 30

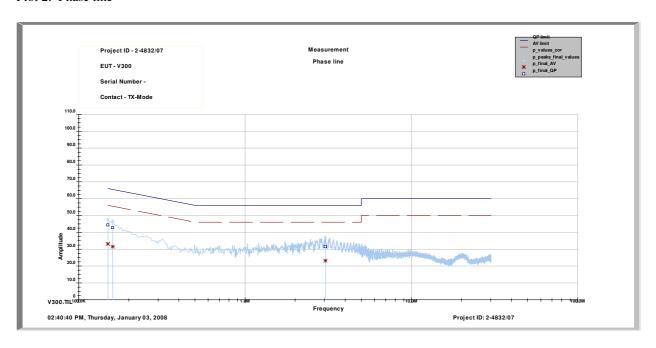


#### 5.9 Conducted Emissions <30 MHz

Plot 1: Neutral line



Plot 2: Phase line



We measured in TX and RX mode, L1 and N floating and grounded, max value was hold.

Limits:

Under normal test conditions only	See plots
-----------------------------------	-----------

2008-01-04 Page 23 of 30

Test report no.: 2-4832-01-02/07



### 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	Frequency	Next
					Calibration		Calibration
1	Anechoic chamber	MWB	87400/02	300000996	Monthly verifi	cation	•
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 verifi	cation (System	cal.)
16	Double Ridged Antenna HP 3115P	EMCO	3088	300001032	Monthly verifi	cation (System	cal.)
17	Active Loop Antenna 6502	EMCO	2210	300001015	Monthly verifi	cation (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 verifi	cation (System	cal.)
21	Power attenuator 8325	Byrd	1530	300001595	Monthly verifi	cation (System	cal.)
22	Band reject filter WRCG1855/1910	Wainwrig ht	7	300003350	Monthly verification (System cal.)		
23	Band reject filter WRCG2400/2483	Wainwrig ht	11	300003351	Monthly verification (System cal.)		

#### Sytstem Rack Room 005:

No	Equipment/Type	Manuf.	Serial Nr.	Inv. No. Cetecom	Last	Frequency	Next
					Calibration	(months)	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
		·					

2008-01-04 Page 24 of 30

Test report no.: 2-4832-01-02/07



#### Anechoic chamber F:

No.	Instrument/Ancillary	Manufacturer	Туре	Serial-No.	Internal identification
	Radiated emission in chamber F				
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	
	Radiated immunity in chamber F				
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
	Harmonics and flicker in front of chamber F				
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

2008-01-04 Page 25 of 30



# 7 Photographs of the Test Set-up

Photo 1:

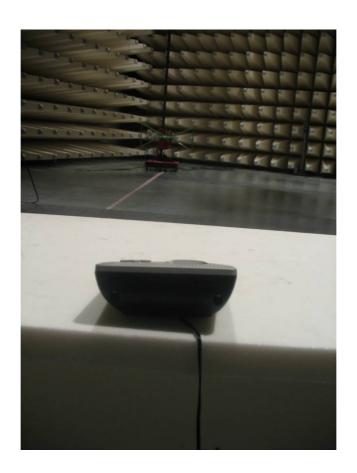


Photo 2:

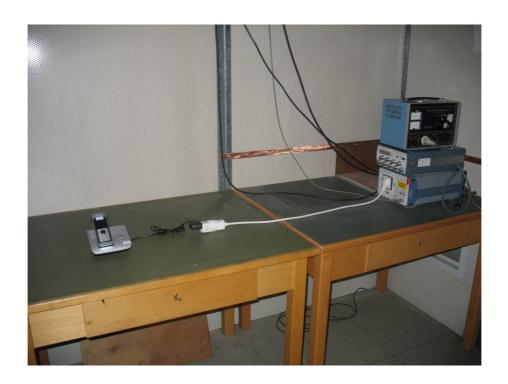


2008-01-04 Page 26 of 30

Test report no.: 2-4832-01-02/07



#### Photo 3:



2008-01-04 Page 27 of 30



### 8 Photographs of the EUT

Photo 1:



Photo 2:



2008-01-04 Page 28 of 30

Test report no.: 2-4832-01-02/07



#### Photo 3:



#### Photo 4:

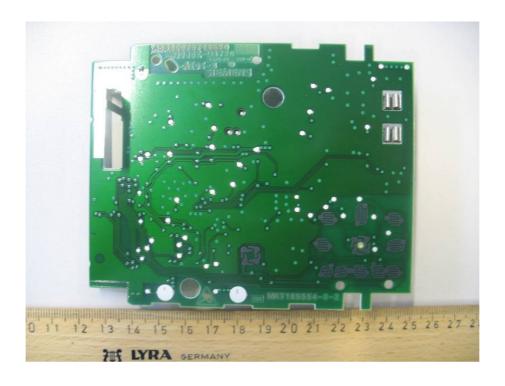


2008-01-04 Page 29 of 30

Test report no.: 2-4832-01-02/07



#### Photo 5:



2008-01-04 Page 30 of 30