**CETECOM™****CETECOM ICT Services**
consulting - testing - certification >>>

TEST REPORT

Test report no.: 1-4254/12-12-10

Deutsche
Akkreditierungsstelle
D-PL-12076-01-01

Testing laboratory

CETECOM ICT Services GmbH
Untertuerkheimer Strasse 6 – 10
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Accredited Testing Laboratory:

The testing laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025 (2005) by the Deutsche Akkreditierungsstelle GmbH (DAkKS). The accreditation is valid for the scope of testing procedures as stated in the accreditation certificate with the registration number: D-PL-12076-01-01
Area of Testing: Radio/Satellite Communications

Applicant

Sony Ericsson Mobile Communications AB
Nya Vattentornet
22188 Lund / SWEDEN
Phone: +46 46 19 30 00
Fax: +46 46 19 32 95
Contact: Håkan Sjöberg
e-mail: hakan.sjoberg@sonyericsson.com
Phone: +46 46 19 35 59

Manufacturer

Sony Ericsson Mobile Communications AB
Nya Vattentornet
22188 Lund / SWEDEN

Test standard/s

47 CFR Part 15	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices
RSS - 210 Issue 8	Spectrum Management and Telecommunications - Radio Standards Specification Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment

For further applied test standards please refer to section 3 of this test report.

Test Item

Kind of test item:	GSM Mobile Phone GPRS/EGPRS 850/900/1800/1900; UMTS FDDI/FDDII/FDDV/FDDVIII; HSPA; BT2.1+EDR; WLAN b/g/n; GPS; RFID, FM Rx
Model name:	AAD-3880135-BV
FCC ID:	PY7A3880135
IC:	4170B-A3880135
Frequency:	13.56 MHz
Technology tested:	RFID
Antenna:	Integrated antenna
Power Supply:	3.7 V DC by Li-polymer battery
Temperature Range:	-30°C to 60 °C

Test report authorised:

2012-03-05 
Jakob Reschke
Testing Manager

Test performed:

2012-03-05 
Christoph Schneider

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2 General information

2.1 Notes and disclaimer

The test results of this test report relate exclusively to the test item specified in this test report. CETECOM ICT Services GmbH does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item.

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In no case this test report can be considered as a Letter of Approval.

2.2 Application details

Date of receipt of order:	2012-02-16
Date of receipt of test item:	2008-09-29
Start of test:	2012-02-29
End of test:	2008-10-05
Person(s) present during the test:	-/-

3 Test standard/s

Test standard	Date	Test standard description
47 CFR Part 15	2010-10	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices
RSS - 210 Issue 8	2010-12	Spectrum Management and Telecommunications - Radio Standards Specification Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment

4 Test environment

Temperature:	T_{nom}	+22 °C during room temperature tests
	T_{max}	60 °C during high temperature tests
	T_{min}	-30 °C during low temperature tests
Relative humidity content:		46 %
Barometric pressure:		not relevant for this kind of testing
Power supply:	V_{nom}	3.7 V DC by Li-polymer battery
	V_{max}	-/- V
	V_{min}	-/- V

5 Test item

Kind of test item	:	GSM Mobile Phone GPRS/EGPRS 850/900/1800/1900; UMTS FDDI/FDDII/FDDV/FDDVIII; HSPA; BT2.1+EDR; WLAN b/g/n; GPS; RFID, FM Rx
Type identification	:	AAD-3880135-BV
S/N serial number	:	Rad. CB511VRTDK, CB511VRQWZ
HW hardware status	:	AP2
SW software status	:	6.0.B.1.274
Frequency band [MHz]	:	13.56 MHz
Type of modulation	:	N0N
Number of channels	:	1
Antenna	:	Integrated antenna
Power supply	:	3.7 V DC by Li-polymer battery
Temperature range	:	-30 °C to 60 °C

6 Test laboratories sub-contracted

None

7 Summary of measurement results

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

TC Identifier	Description	Verdict	Date	Remark
RF-Testing	CFR Part 15 RSS 210, Issue 7, Annex 2.6	Passed	2012-03-05	-/-

Test Specification Clause	Test Case	Temperature Conditions	Power Source Voltages	Pass	Fail	NA	NP	Results (max.)
§ 15.35 (c)/ RSS-GEN Issue 2 Section 4.5	Timing of the transmitter (Duty cycle correction factor)	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	complies
§ 15.225 (a)/ RSS-210 Issue 7 Annex 2.6	Fieldstrength of Fundamental	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	complies
§ 15.209/ RSS-210 Issue 7 Annex 2.6	Fieldstrength of harmonics and spurious	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	complies
§ 15.225 (e)/ RSS-210 Issue 7 Annex 2.6	Frequency tolerance	Nominal	Extreme	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	complies
		Extreme	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Note: NA = Not Applicable; NP = Not Performed

8 RF measurement testing

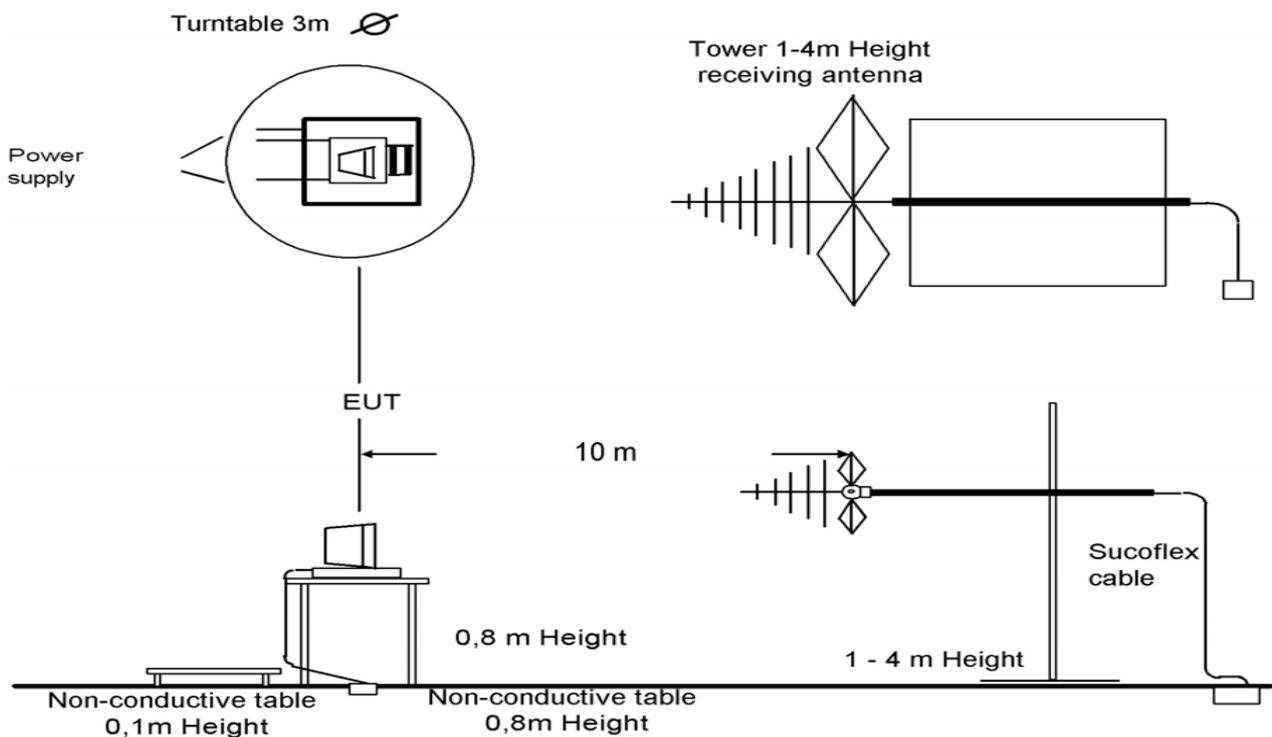
8.1 Description of test setup

8.1.1 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.

Semi anechoic chamber



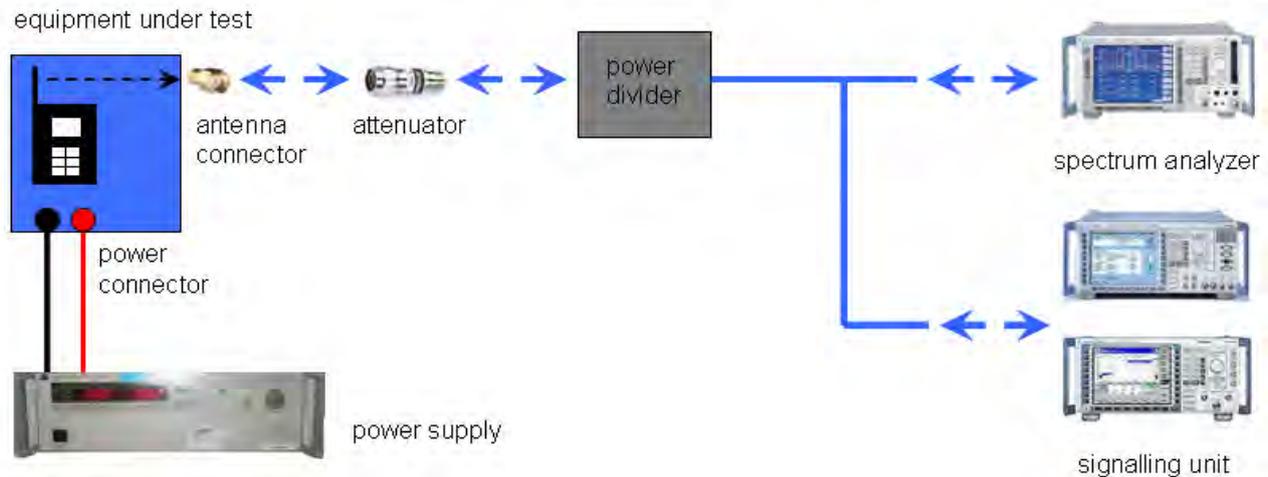
Picture 1: Diagram radiated measurements

9 kHz - 30 MHz:	active loop antenna
30 MHz – 1 GHz:	tri-log antenna
> 1 GHz:	horn antenna

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.

8.1.2 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.



Picture 2: Diagram conducted measurements

8.2 Additional comments

Reference documents: None

Special test descriptions: None

Configuration descriptions: None

8.3 RSP100 test report cover sheet / performance test data

Test Report Number	:	1-4254/12-12-10
Equipment Model Number	:	AAD-3880135-BV
Certification Number	:	4170B-A3880135
Manufacturer (complete Address)	:	Sony Ericsson Mobile Communications AB Nya Vattentorget 22188 Lund / SWEDEN
Tested to radio standards specification no.	:	RSS 210, Issue 7, Annex 8
Open Area Test Site IC No.	:	IC 3462C-1
Frequency Range or fixed frequency	:	13.56 MHz
Field Strength [dB μ V/m] (at which distance)	:	15 dB μ V/m @ 30m 35 dB μ V/m @ 10m
Occupied bandwidth (99%-BW) [kHz]	:	1 kHz
Type of modulation	:	N0N
Emission Designator (TRC-43)	:	1H0N0N
Antenna Information	:	Integrated antenna
Transmitter Spurious (worst case) [μ V/m @ 3m]	:	30 dB μ V/m @ 1 GHz (noise floor)
Receiver Spurious (worst case [μ V/m @ 3m]):	:	No receiver mode!

ATTESTATION:
DECLARATION OF COMPLIANCE:

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

Laboratory Manager:

2012-03-05

Date

Christoph Schneider

Name


Signature

9 Measurement results

9.1 Field strength of the fundamental

Measurement:

Measurement parameter	
Detector:	Quai Peak
Sweep time:	
Resolution bandwidth:	200 Hz up to 150 kHz, 9 kHz up to 30 MHz, 120 kHz up to 1 GHz
Video bandwidth:	≥ RBW
Span:	
Trace-Mode:	Max Hold

Limits:

FCC		IC	
CFR Part SUBCLAUSE § 15.225 (b)		RSS-210 Issue 7 Section A1.1.2 / 2.7 Table 4	
Fundamental Frequency (MHz)	Field strength of Fundamental (µV/m)	Measurement distance (m)	
13.553 to 13.567	15848 µV/m (84 dBµV/m)	30	
	158489 µV/m (104 dBµV/m)	10 (Recalculated acc. to FCC part15.31 (f2))	

Result:

TEST CONDITIONS		MAXIMUM POWER (dBµV/m)	
Frequency		13.56 MHz	13.56 MHz
Mode		at 10 m distance	at 30 m distance
T _{nom} = 22 °C	V _{nom} = 3.7 V	35	15*
Measurement uncertainty		±3dB	

* Limits recalculated from 10m to 30m with 40 dB/decade according to FCC 15.31 (f2).

Result: The result of the measurement is passed.

9.2 Field strength of the harmonics and spurious

Measurement:

Measurement parameter	
Detector:	Average / Quasi Peak
Sweep time:	Auto
Resolution bandwidth:	9 kHz – 30 MHz: 9 kHz 30 MHz – 1 GHz: 120 kHz
Video bandwidth:	9 kHz – 30 MHz: 9 kHz 30 MHz – 1 GHz: 120 kHz
Trace-Mode:	Max Hold

Limits:

FCC		IC	
SUBCLAUSE § 15.209			
Field strength of the harmonics and spurious.			
Frequency (MHz)	Field strength (µV/m)	Measurement distance (m)	
0.0009 – 0.490	2400/F(kHz)	300	
0.490 – 1.705	24000/F(kHz)	30	
1.705 – 30	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	

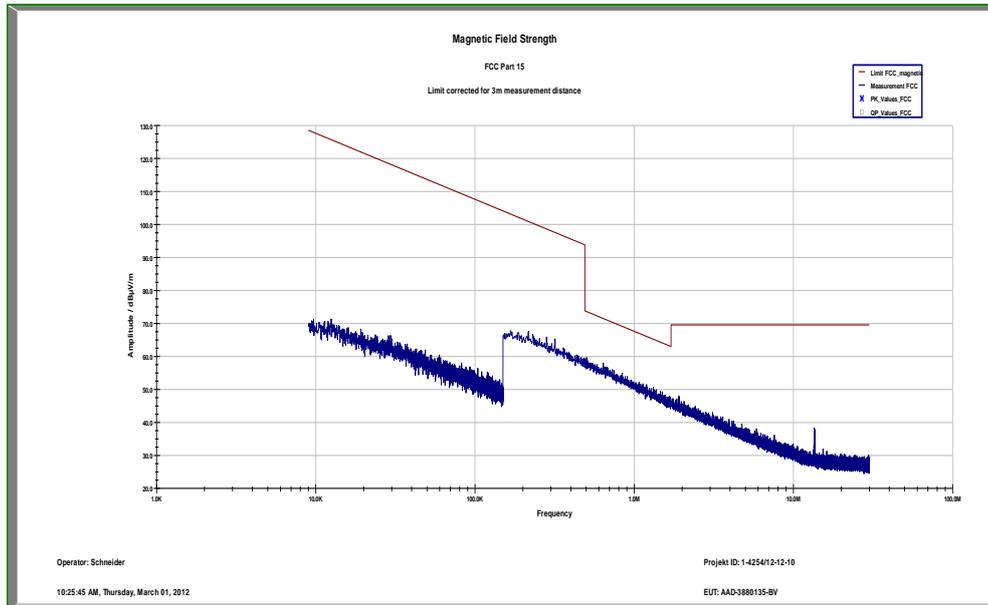
Result:

EMISSION LIMITATIONS				
f [MHz]	Detector	Limit max. allowed [dBµV/m]	Amplitude of emission [dBµV/m]	Results
no critical emissions detected!				

Result: The result of the measurement is passed.

Plots of the measurements

Plot 1: 9 kHz – 30 MHz;
Part 15.209 Magnetics, Measurement distance 3m



Plot 2: 30 MHz – 1000 MHz

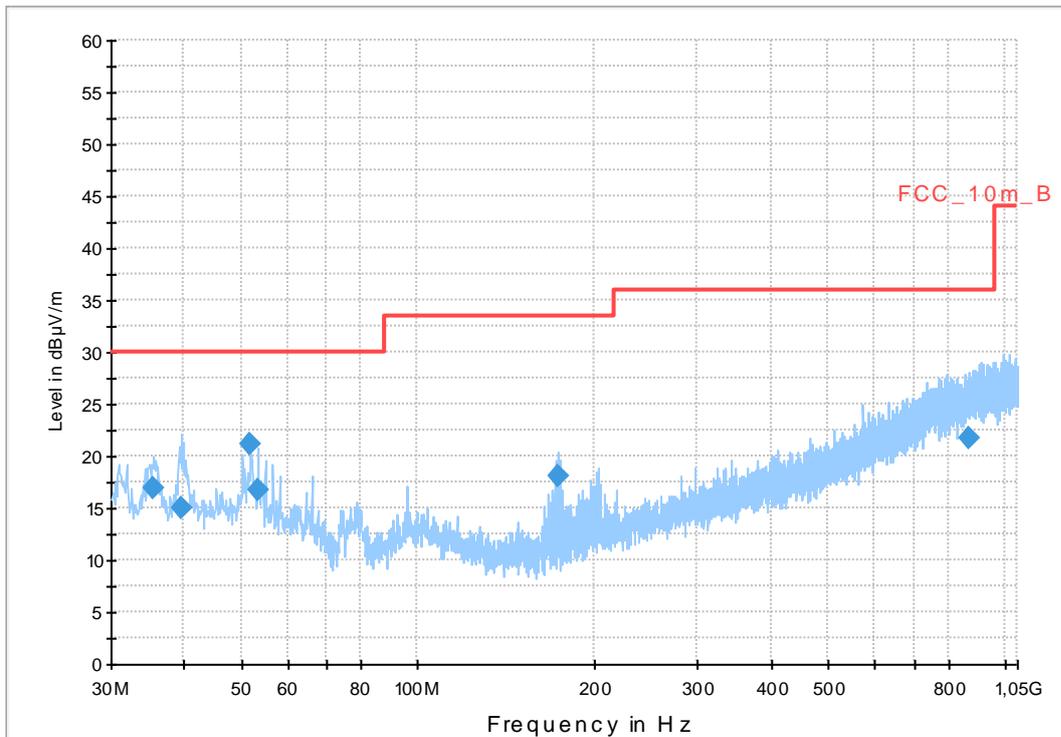
Common Information

EUT: AAD-3880135-BV
 Serial Number: #1: CB511VRQWZ IMEI: 00440214-481472-4 | #2: CB511VRTDK IMEI: 00440214-481513-5
 Test Description: FCC part 15 class B @ 10 m
 Operating Conditions: RX + TX NFC + charging
 Operator Name: Hennemann
 Comment: AC: 115 V / 60 Hz

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)
 Receiver: [ESCI 3]
 Level Unit: dBµV/m
Subrange **Step Size** **Detectors** **IF BW** **Meas. Time** **Preamp**
 30 MHz - 2 GHz 60 kHz QPK 120 kHz 1 s 20 dB

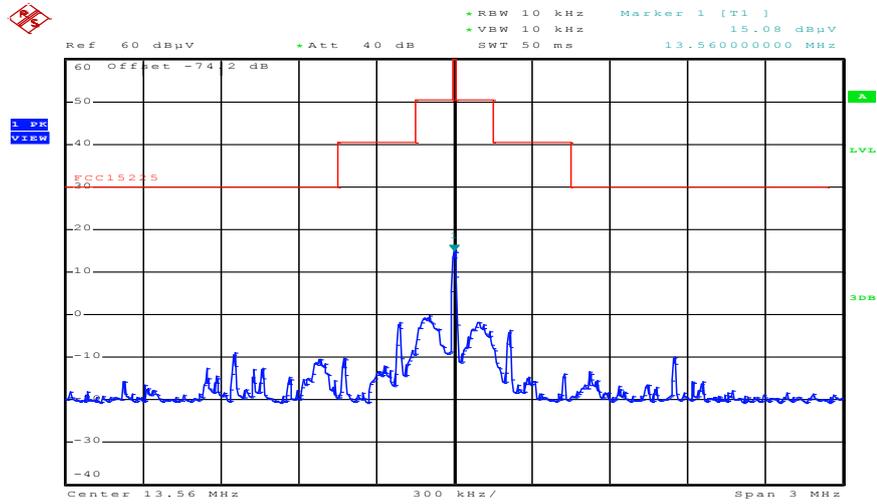
FCC_10m(B)_3



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
35.373150	16.8	1000.0	120.000	106.0	V	106.0	13.1	13.2	30.0	
39.671700	14.9	1000.0	120.000	98.0	V	283.0	13.4	15.1	30.0	
51.888900	21.1	1000.0	120.000	98.0	V	80.0	13.2	8.9	30.0	
53.481450	16.8	1000.0	120.000	154.0	V	106.0	13.0	13.2	30.0	
172.934250	18.2	1000.0	120.000	113.0	V	90.0	10.0	15.3	33.5	
867.818700	21.7	1000.0	120.000	98.0	H	-6.0	24.8	14.3	36.0	

Plot 3: Spectrum mask part15.225 (a,b,c,d)



Date: 2.MAR.2012 08:12:59

The transmitter holds the requirements of FCC 15.225 (a,b,c and d)

9.3 Frequency tolerance

Measurement:

Measurement parameter	
Detector:	Peak
Sweep time:	Auto
Resolution bandwidth:	100 Hz
Video bandwidth:	300 Hz
Span:	30 kHz
Trace-Mode:	Max Hold

Limits:

FCC	IC
SUBCLAUSE § 15.225	RSS-210 Issue 7 Annex 2.6
The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.	

Result: The result of the measurement is passed.

Frequency tolerance								
Over temperature variation			Over voltage variation			MHz		
Limit is +/- 1.356 kHz			Limit is +/- 1.356 kHz					
T (°C)	Frequency	result	Power Voltage	Frequency	result	F [MHz]	Detector	Level [µV/m]
-20°	13.559940	Pass	Not applicable					
-10°	13.559940	Pass						
0°	13.559940	Pass						
10°	13.559940	Pass						
20°	13.559940	Pass						
30°	13.559940	Pass						
40°	13.559940	Pass						
50°	13.559940	Pass						
Measurement uncertainty			±100 Hz					

9.4 AC line conducted

Measurement:

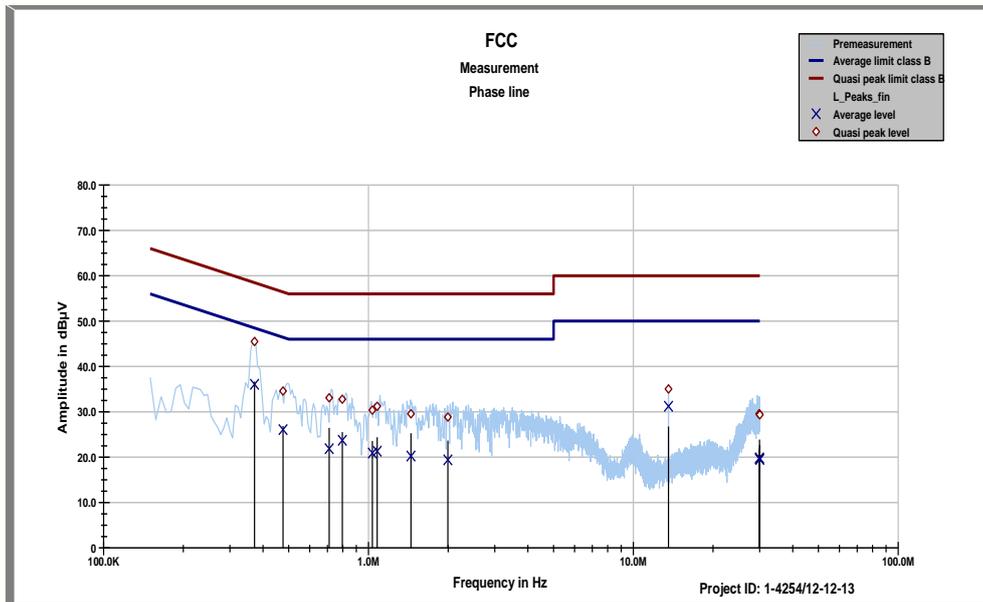
Measurement parameter	
Detector:	Peak
Sweep time:	Auto
Resolution bandwidth:	9 kHz
Video bandwidth:	9 kHz
Span:	1 MHz Steps
Trace-Mode:	Max Hold

Limits:

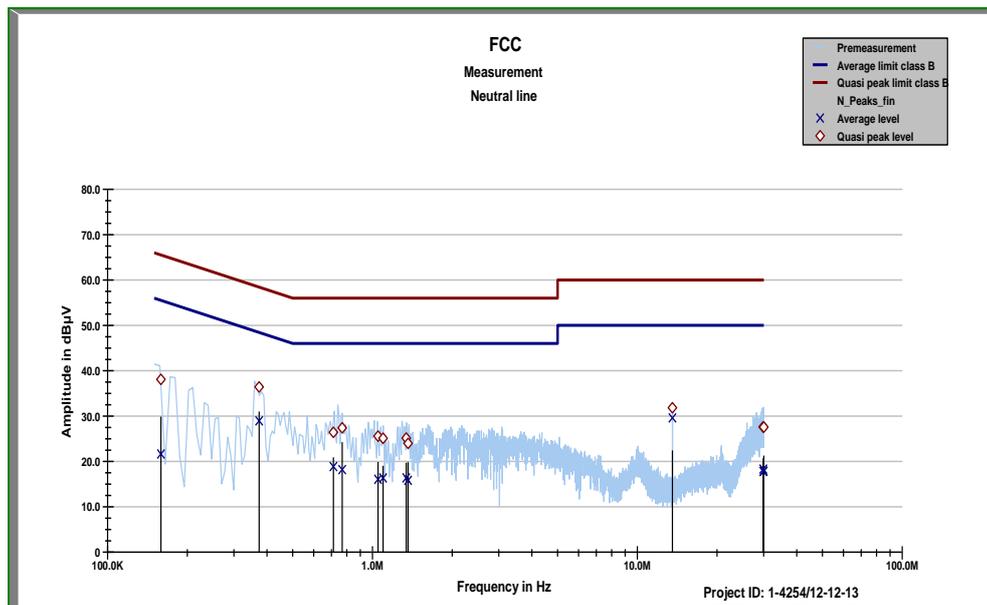
FCC	IC	
SUBCLAUSE § 15.107 / 15.207	RSS-210 Issue 7 Section 6.6, 7.4	
Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56 *	56 to 46 *
0.5 – 5	56	46
5 - 30	60	50

Result: The result of the measurement is passed.

Plot 1, Phase line:



Plot 2, Neutral line:



10 Test equipment and ancillaries used for tests

Typically, the calibrations of the test apparatus are commissioned to and performed by an accredited calibration laboratory. The calibration intervals are determined in accordance with the DIN EN ISO/IEC 17025. In addition to the external calibrations, the laboratory executes comparison measurements with other calibrated test systems or effective verifications. Weekly chamber inspections and range calibrations are performed. Where possible, rf-generating and signalling equipment as well as measuring receivers and analyzers are connected to an external high-precision 10 MHz reference (GPS-based or rubidium frequency standard).

In order to simplify the identification of the equipment used at some special tests, some items of test equipment and ancillaries can be provided with an identifier or number in the equipment list below (Labor/Item).

No.	Lab / Item	Equipment	Type	Manufact.	Serial No.	INV. No Cetecom	Kind of Calibration	Last Calibration	Next Calibration
1	n. a.	DC power supply, 60Vdc, 50A, 1200 W	6032A	HP Meßtechnik	2818A03450	300001040	Ve	12.01.2012	12.01.2015
2	n. a.	Coaxial Attenuator 30dB/500W	8325	Bird	1530	300001595	ev		
3	n. a.	Biconical Antenna, 20 MHz - 200 MHz	3104	EMCO	3758	300001602	g		
4	n. a.	Log. Period. Antenna	3146	EMCO	2130	300001603	g		
5	n. a.	Double-Ridged Waveguide Horn Antenna 1-18.0GHz	3115	EMCO	8812-3088	300001032	vIKI!	11.05.2011	11.05.2013
6	n. a.	Active Loop Antenna	6502	EMCO	2210	300001015	ne		
7	n. a.	VDE/FCC ANTENNA KIT	HP11965B	HP		300002298	ne		
8	n. a.	Monitor	35731	HP		300002294	g		
9	n. a.	Workstation	9000/300	HP		300002295	g		
10	n. a.	SRM-Laufwerk	9144A	HP	2823e46556	300001044	g		
11	n. a.	Software	EMI Halle C	HP		300000983			
12	n. a.	Vectra	4	HP	fr64068117	300000974	ne		
13	n. a.	Monitor	ultra vga 1280	HP	kr63253592	300000977	ne		
14	n. a.	Drucker	1600C	HP	USB6714700	300000984	g		
15	n. a.	Drucker	Laserjet	HP	2602j57007	300001632	g		
16	n. a.	Busisolator		Kontron		300001056	g		
17	n. a.	Anechoic chamber	FAC 3/5m	MWB / TDK	87400/02	300000996		23.03.2009	
18	n. a.	Pillar of salt (Salzsäule)		Kontron		300001055	ne		
19	n. a.	Pillar of salt (Salzsäule)				300001341	ne		
20	n. a.	Drucker	Paintjet 3630A	HP I.V.	3040a98124	300001634	g		
21	n. a.	Drucker	Laserjet IIIp	HP I.V.	3128juc1qc	300001635	g		
22	n. a.	Antenna mast	AM9104	Schwarzbeck		300001278	ne		
23	n. a.	Antenna mast	UAAIp9107	Schwarzbeck		300002478			
24	n. a.	Triple Loop Antenna 9 kHz to 30 MHz	HM020	R&S	832211/003	300002243	ne		
25	62	Inductive Probe for ESH2/ESH3 100 kHz - 30 MHz	HFH2-Z4	R&S	881468/026	300001464	ne		
26	Spec.A. 2_2e	System rack for EMI measurement solution	85900	HP I.V.	*	300000222	ne		
27	Spec.A. 2_2a	Spectrum Analyzer 2_2a	8566B	HP Meßtechnik	2747A05275	300000219	NK!	18.01.2008	
28	Spec.A. 2_2d	Quasi-Peak-Adapter	85650A	HP Meßtechnik	2811A01135	300000216	NK!	23.01.2008	
29	EMV Sys. 2/5	RF-Preselector	85685A	HP Meßtechnik	2837A00779	300000218	vk		
30	Spec.A.	Spectrum	85660B	HP	3138A07614	300001207	NK!	13.12.2007	

	1_1a	Analyzer		Meßtechnik					
31	Spec.A. 1_1b	Spectrum Analyzer Display 1	85662A	HP Meßtechnik	3144A28627	300001208	NK!	13.12.2007	
32	n. a.	Loop Antenna 9 KHz - 30 MHz	HFH2-Z2	R&S	891847-35	300001169	ne		
33	Spec.A. 1_1d	Quasi-Peak Adapter	85650A	HP Meßtechnik	2811A01204	300002308	NK!	13.12.2007	
34	n. a.	Relaismatrix (FTA)	HP3488A	HP Meßtechnik	2719A15013	300000151	ne		
35	n. a.	NF PCM Tester	PCM 23	W&G	P-0049	300000196	NK!		
36	n. a.	Three-Way Power Splitter, 50 Ohm	11850C	HP Meßtechnik		300000997	ne		
37	n. a.	Broadband Horn Antenna EMI	35155P	HP Meßtechnik		300002300	ne		
38	n. a.	Arbeitsplatzrechner	Vectra VL	HP Meßtechnik		300001688	g		
39	n. a.	VHF Measurement antenna	VHA 9103	Schwarzbeck		300001778	ne		
40	Spec.A. 2_2b	Spectrum Analyzer Display 2_2b	85662A	HP Meßtechnik	2816A16497	300001690	NK!	23.01.2008	
41	Spec.A. 1_1c	RF-Preselector	85685A	HP Meßtechnik	2837A00778	300002448	NK!	13.12.2007	
42	n. a.	VHF Measurement antenna	VHA 9103	Schwarzbeck		300001780	NK!	01.07.2004	
43	Spec.A. 2_2c	RF-Preselector	85685A	HP Meßtechnik	2833A00768	400000081	NK!	18.01.2008	
44	n. a.	Biconical Antenna, 20 MHz - 200 MHz	3104 C	EMCO	9909-4868	300002590	ne		
45	n. a.	Band Reject filter	WRCG1855/1910-1835/1925-40/8SS	Wainwright	7	300003350	ev		
46	n. a.	Band Reject filter	WRCG2400/2483-2375/2505-50/10SS	Wainwright	11	300003351	ev		
47	n. a.	Software Option for CMU 200	CMU-K69	R&S	100109	300003198	ne		
48	n. a.	USB/GPIB Interface	82357A	Meilhaus	MY45468646	300003428	ne		
49	n. a.	EGPRS-Treiber	EGPRS-Treiber für EMQ-100 Software	EMCO	none	300003441	ne		
50	n. a.	TILE-Software Emission	Quantum Change, Modell TILE-ICS/FULL	EMCO	none	300003451	ne		
51	n. a.	Highpass Filter	WHKX2.9/18G-12SS	Wainwright	1	300003492	ev		
52	n. a.	Hygro-Thermometer	-/, 5-45°C, 20-100%rF		-/	400000110	izw	04.08.2011	04.08.2012
53	n. a.	Software Option für CMU 200	CMU-K56	R&S	100504	300003765	ne		
54	n. a.	Software Option for CMU 200	CMU-K62	R&S	103402	300003606	ne		
55	n. a.	Software Option for CMU 200	CMU-K64	R&S	102001	300003607	ne		
56	n. a.	Highpass Filter	WHK1.1/15G-10SS	Wainwright	3	300003255	ev		
57	n. a.	Highpass Filter	WHKX7.0/18G-8SS	Wainwright	18	300003789	ne		
58	n. a.	PSA Spectrum Analyzer 3 Hz - 26.5 GHz	E4440A	Agilent Technologies	MY48250080	300003812	k	08.09.2010	08.09.2012
59	n. a.	MXG Microwave Analog Signal Generator	N5183A	Agilent Technologies	MY47420220	300003813	k	13.09.2010	13.09.2012
60	n. a.	RF Filter Section 9kHz - 1GHz	N9039A	Agilent Technologies	MY48260003	300003825	vIKI!	08.09.2010	08.09.2012
61	n. a.	Conical Log-Spiral Antenna	3102	ETS-LINDGREN	00091823	300003849	NK!	30.10.2008	
62	n. a.	TRILOG	VULB9163	Schwarzbeck	371	300003854	vIKI!	14.10.2011	14.10.2014

		Broadband Test-Antenna 30 MHz - 3 GHz		ck					
63	n. a.	High Pass Filter	VHF-3500+	Mini Circuits	-/-	400000193	ne		
64	n. a.	Digital Multimeter	VC 820	Voltcraft	1090451771	400000258	ne		
65	n. a.	Test Receiver	ESH2	R&S	871921/095	300002505	Ve	12.01.2012	12.01.2014
66	n. a.	Loop Antenna 9 KHz - 30 MHz	HFH2-Z2	R&S	872096/61	300001824	vKl!	18.11.2008	18.03.2012
67	n. a.	Signal Analyzer 20Hz-26,5GHz-150 to + 30 DBM	FSiQ26	R&S	835111/0004	300002678	Ve	04.11.2010	04.11.2012
68	n. a.	Temperature Test Chamber	VT 4002	Heraeus Voetsch	521/83761	300002326	Ve	20.09.2011	20.09.2013

Agenda: Kind of Calibration

k	calibration / calibrated	EK	limited calibration
ne	not required (k, ev, izw, zw not required)	zw	cyclical maintenance (external cyclical maintenance)
ev	periodic self verification	izw	internal cyclical maintenance
Ve	long-term stability recognized	g	blocked for accredited testing
vKl!	Attention: extended calibration interval	*)	next calibration ordered / currently in progress
NK!	Attention: not calibrated		

11 Observations

No observations exceeding those reported with the single test cases have been made.