

InterLab
Final Report on
Flue Gas Analyzer
testo 330
FCC ID WAF-2016t330
IC: 6127B -2016T330

Report Reference: MDE_TESTO_1503_FCCb

According to FCC 47 CFR Ch.1 Part 15 Subpart B, Class B

Date: February 02, 2016

Test Laboratory:

7layers GmbH Borsigstraße 11 40880 Ratingen Germany



Note:

The following test results relate only to the devices specified in this document. This report shall not be reproduced in parts without the written approval of the test laboratory.

7layers GmbH

Borsigstraße 11 40880 Ratingen, Germany T +49 (0) 2102 749 0 F +49 (0) 2102 749 350 www.7layers.com Geschäftsführer / Managing Directors: Frank Spiller Berhard Retka Alexandre Norré-Oudard Registergericht registered in: Düsseldorf, HRB 75554 USt-IdNr VAT No.: DE203159652 TAX No. 147/5869/0385 A Bureau Veritas Group Company



1 Administrative Data

1.1 Project Data

Project Responsible:

Abdellah Ahakki

Date Of Test Report:

2016/01/27

Date of first test:

2015/06/23

Date of last test:

2015/12/10

1.2 Applicant Data

Company Name:

Testo AG

Street:

Celsiusstraße 2

City:

79822 Titisee-Neustadt

Country:

Germany

Contact Person:

Mr. Udo Spiwoks

Department:

Qualification & Test

Phone:

+49 (0) 7653 681 - 7492 +49 (0) 7653 681 - 97492

Fax: E-Mail:

uspiwoks@testo.de

1.3 Test Laboratory Data

The following list shows all places and laboratories involved for test result generation:

7 layers DE

Company Name :

7layers GmbH

Street:

Borsigstrasse 11

City: Country: 40880 Ratingen

Country .

Germany

Contact Person:

Mr. Michael Albert

Phone :

+49 2102 749 201

Fax:

+49 2102 749 444

E Mail:

Michael.Albert@7Layers.com

Laboratory Details

Lab ID	Identification	Responsible	Accreditation Info
Lab 1	Conducted Emissions	Mr. Andreas Petz Mr. Wolfgang Richter	DAkkS-Registration no. D-PL-12140-01-01
Lab 2	Radiated Emissions	Mr. Marco Kullik Mr. Jens Dörwald	DAkkS-Registration no. D-PL-12140-01-01

1.4 Signature of the Testing Responsible

Imad Hjije

responsible for tests performed in: Lab 1, Lab 2



1.5 Signature of the Accreditation Responsible

Accreditation scope responsible person

responsible for Lab 1, Lab 2

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2 Test Object Data

2.1 General OUT Description

The following section lists all OUTs (Object's Under Test) involved during testing.

OUT: testo 330

Type / Model / Family: Flue Gas Analyzer

testo 330

FCC ID WAF-2016t330 IC: 6127B -2016T330

Product Category: Handheld Device

Manufacturer:

Company Name: Testo AG

Street: Celsiusstraße 2

City: 79822 Titisee-Neustadt

Country: Germany

Company URL: http://www.testo.de/

 Contact Person:
 Mr. Udo Spiwoks

 Department:
 Qualification & Test

 Phone:
 +49 (0) 7653 681 - 7492

 Fax:
 +49 (0) 7653 681 - 97492

E-Mail: uspiwoks@testo.de

Parameter List:

Parameter name Value

Parameter for Scope FCC_v2:

AC Power Supply

Antenna Gain

DC Power Supply

highest channel (BT)

lowest channel (BT)

mid channel (BT)

2441

(MHz)

Ancillary Equipment: AC Adapter ONTOP / Testo (3rd version)

Type / Model / Family: Model: BLJ15W063200P2-V

Manufacturer:

Company Name: Testo AG

Street: Celsiusstraße 2

City: 79822 Titisee-Neustadt

Country: Germany

Company URL: http://www.testo.de/

 Contact Person:
 Mr. Udo Spiwoks

 Department:
 Qualification & Test

 Phone:
 +49 (0) 7653 681 - 7492

 Fax:
 +49 (0) 7653 681 - 97492

E-Mail: uspiwoks@testo.de

Ancillary Equipment: Burner Control Interface

Type / Model / Family: testo

Ancillary Equipment: Gas Probe

Type / Model / Family: 06009797304, testo

Manufacturer:



Company Name: Testo AG

Street: Celsiusstraße 2

City: 79822 Titisee-Neustadt

Country: Germany

Company URL: http://www.testo.de/

Contact Person: Mr. Udo Spiwoks Qualification & Test Department:

+49 (0) 7653 681 - 7492 Phone: Fax: +49 (0) 7653 681 - 97492

E-Mail: uspiwoks@testo.de

Ancillary Equipment: Modular Flue Gas Probe

Type / Model / Family: 05549761/505, testo

Manufacturer:

Company Name: Testo AG Celsiusstraße 2 Street:

79822 Titisee-Neustadt City:

Country: Germany

Company URL: http://www.testo.de/

Mr. Udo Spiwoks Contact Person: Department: Qualification & Test

Phone: +49 (0) 7653 681 - 7492 Fax: +49 (0) 7653 681 - 97492

E-Mail: uspiwoks@testo.de



2.2 Detailed Description of OUT Samples

Sample: aa01

OUT Identifiertesto 330Sample DescriptionRadiated sampleSerial No.02674643

HW Status 0460 1237 Index 5.1

SW Status V 2.10

Nominal Voltage 3.7 V Normal Temp. 23 °C

Sample: ab01

OUT Identifiertesto 330Sample DescriptionRadiated sampleSerial No.02672180

HW Status 0460 1237 Index 5.1

SW Status V 2.10

Nominal Voltage 3.7 V Normal Temp. 23 °C

Sample: AC/DC3

OUT Identifier AC Adapter ONTOP / Testo (3rd version)

Sample Description AC adapter

Serial No. DN#APL150714A-V2 (VI)

Nominal Voltage 120 V / 60 Hz

Sample: Burner1

OUT IdentifierBurner Control InterfaceSample DescriptionBurner Control Interface

Sample: probe1

OUT Identifier Modular Flue Gas Probe

Sample Description Flue Gas Probe Serial No. 0554 9783 / 507

Sample: probe2

OUT IdentifierGas ProbeSample DescriptionGas ProbeSerial No.06009797304



According to FCC 47 CFR Ch.1 Part 15 Subpart B, Class B

2.3 OUT Features

Features for OUT: AC Adapter ONTOP / Testo (3rd version)

Designation Description Allowed Values Supported Value(s)

Features for scope: FCC_v2

AC The OUT is powered by or connected to AC

Mains

DC The OUT is powered by or connected to DC

Features for OUT: Gas Probe

Designation Description Allowed Values Supported Value(s)

Features for scope: FCC_v2

DC The OUT is powered by or connected to DC

Features for OUT: Modular Flue Gas Probe

Designation Description Allowed Values Supported Value(s)

Features for scope: FCC_v2

DC The OUT is powered by or connected to DC

Features for OUT: testo 330

Designation Description Allowed Values Supported Value(s)

Features for scope: FCC_v2

AC The OUT is powered by or connected to AC

Mains

BT EUT supports Bluetooth data rate of 1 Mbps

with GFSK modulation in the band 2400 MHz -

2483.5 MHz

DC The OUT is powered by or connected to DC

EDR2 EUT supports Bluetooth using data rate of 2

Mbps with PI/4 DQPSK modulation in the band

2400 MHz - 2483.5 MHz

EDR3 EUT supports Bluetooth using data rate of 3

Mbps with 8DPSK modulation in the band 2400

MHz - 2483.5 MHz

Iant Integral Antenna: permanent fixed antenna,

which may be built-in, designed as an indispensable part of the equipment

TantC temporary antenna connector, which may be

only built-in for testing, designed as an

example part of the equipment

2.4 Auxiliary Equipment

AE No.	Type Designation	Serial No.	HW Status	SW Status	Description
AE AUX4	CHERRY RS 6000 USB ON	G 0000273 2P28			Keyboard
AE AUX1	Fujitsu LIFEBOOK E Series E781	DSCK01381	2012-03	Win7 Prof. Engl.	Laptop
AE AUX2	FUJITSU Model: PJW1942NA	13300281B		-	AC/DC adapter of Laptop
AE AUX3	LG L17MB-P, L1730BSNHM-ALEUR	412WAPL0U560			TFT Display
AE AUX5	Logitech M-BT58	HC60915A2XC			Mouse



2.5 Operating Mode(s)

RefNo.	Description
charge	OUT is connected to AC Mains (120 V / 60 Hz), OUT is swithed on, internal rechargeable
	batteries are at low voltage, a high charge current will be pulled.
meas1	OUT is connected to AC Mains (120 V / 60 Hz), OUT is switched on, internal rechargeable
	batteries will not be charged, a Bluetooth connection is established, data transfer via USB cable.

2.6 Setups used for Testing

For each setup a relation is given to determine if and which samples and auxiliary equipment is used. The left side list all OUT samples and the right side lists all auxiliary equipment for the given setup.

List of auxiliary equipment Setup No. List of OUT samples Sample Description AE Description Sample No. AE No.

AB01_charging (Setup with AC Adapter (Charging Mode))

Sample: AC/DC3 AC adapter

Sample: Burner1 **Burner Control Interface**

Sample: probe1 Flue Gas Probe

Gas Probe Sample: probe2

Sample: aa01

Sample: ab01 Radiated sample

AB01_compper (Computer peripheral (Measuring Mode))

Sample: AC/DC3 AC adapter AE AUX4 Keyboard Sample: Burner1 Burner Control Interface AE AUX1 Laptop AC/DC adapter of Laptop Sample: probe1 Flue Gas Probe AE AUX2 Sample: probe2 Gas Probe AE AUX3 TFT Display

AE AUX5

Mouse

Radiated sample



According to FCC 47 CFR Ch.1 Part 15 Subpart B, Class B

3 Results

3.1 General

Documentation of tested devices:

Available at the test laboratory.

Interpretation of the test results:

The results of the inspection are described on the following pages, where 'Conformity' or 'Passed' means that the certification criteria were verified and that the tested device is

conform to the applied standard.

In cases where 'Declaration' is printed, the required documents are available in the manufacturers product documentation.

In cases where 'not applicable' is printed, the test case requirements are not relevant to the specific equipment

implementation.

Note:

1. All tests are performed under environmental conditions within the requirements of the specifications. Environmental conditions

are available at the laboratory.

- 2. This report contains the abbreviated information content pertaining to services rendered. Supporting documentation not included herein is maintained and available at the laboratory.
- 3. The device is a Flue Gas Analyzer containing a BT Transceiver operating in the 2.4 GHz ISM band. The EUT was controlled by the CBT via Bluetooth test mode.

3.2 List of the Applicable Body

(Body for Scope: FCC_v2)

Designation Description

FCC47CFRChIPART15bRADIO FREQUENCY DEVICES

Part 15, Subpart B - Unintentional Radiators

3.3 List of Test Specification

Test Specification: FCC part 2 and 15
Version 10-1-14 Edition

Title: PART 2 - GENERAL RULES AND REGULATIONS

PART 15 - RADIO FREQUENCY DEVICES



3.4 Summary

Test Case Identifier / Name Test (condition)	Result	Date of Test	Lab Ref.	Setup
15b.1 Conducted Emissions (AC Power Line) §15.107			
15b.1; Mode = Generating a high power consumption	Passed	2015/12/10	Lab 1	AB01_charging
·	operating mo computer pe	ode: charge ripheral setup, tested	at 120 V	/ / 60 Hz
15b.2 Spurious Radiated Emissions §15.109	9			
15b.2; Mode = Generating a high power consumption	Passed	2015/12/10	Lab 2	AB01_compper
·	operating mo computer pe Passed	ode: charge ripheral setup, tested 2015/06/23	at 120 V Lab 2	•
	operating mo	ode: meas1		



3.5 **Detailed Results**

15b.1 Conducted Emissions (AC Power Line) §15.107 3.5.1

Test: 15b.1; Mode = Generating a high power consumption

Result:

computer peripheral setup, tested at 120 V / 60 Hz

Setup No.: AB01_charging

2015/12/10 11:00 Date of Test:

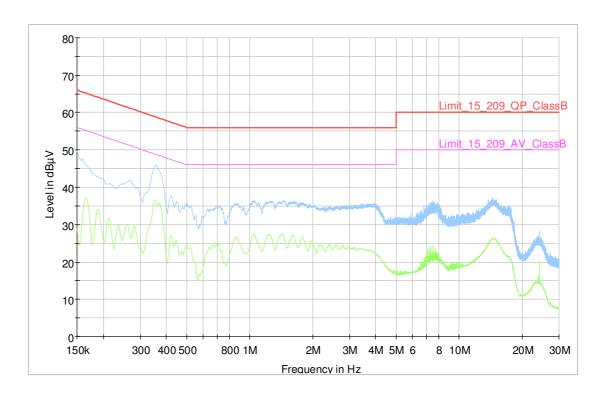
Body: FCC47CFRChIPART15bRADIO FREQUENCY DEVICES

Test Specification: FCC part 2 and 15



According to FCC 47 CFR Ch.1 Part 15 Subpart B, Class B

Detailed Results:



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)	Comment
-			_			-				

Final_Result

	Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)	Comment
Ε		-				1	-				

EMI Auto Test Template: FCC_15207_VOLTAGE_ClassB

Hardware Setup: EMI_Conducted_EN_FCC_ESH3-Z5

Measurement Type 2 Line LISN 150 kHz - 30 MHz 0 dBμV - 80 dBμV Frequency Range: Graphics Level Range:

Preview Measurements:

FCC_Part207_Pre_ESH3-Z5 Scan Test Template:

Final Measurements: Template for Single Meas.: FCC_Part207_Final_ESH3-Z5

Hardware Setup: EMI conducted\EMI_Conducted_EN_FCC_ESH3-Z5 - [EMI conducted]

Subrange 1 Frequency Range: 150 kHz - 30 MHz

ESR 7 [ESR 7] @ GPIB1 (ADR 20), SN 1316.3003K07/101424, FW 2.26 Receiver:

Signal Path: EMIReceiverToLISN

FW 1.0

Correction Table: EMIReceiverToLISN

LISN: ESH3-Z5

Correction Table (Line 0): ESH3-Z5-BothLines Correction Table (Line 1): ESH3-Z5-BothLines



3.5.2 15b.2 Spurious Radiated Emissions §15.109

Test1: 15b.2; Mode = Generating a high power consumption

Result: Passed

Setup No.: AB01_charging

Date of Test: 2015/06/23 18:34

FCC47CFRChIPART15bRADIO FREQUENCY DEVICES Body:

Test Specification: FCC part 2 and 15



Detailed Results:

EMI RADIATED TEST

EUT: (DE1101010ab01)

Manufacturer: Testo

Operating Condition: BT hopping, USB traffic, computer peripheral; 120V/60Hz

Test Site: 7 layers, Ratingen

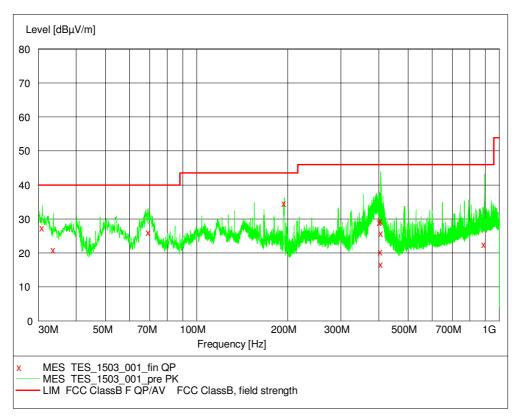
Operator: Doe
Test Specification: FCC Part 15 B Class B

Comment: Horizontal EUT position, Horizontal+Vertical antenna polaris Start of Test: 23.06.2015 / 17:09:36

SCAN TABLE: "FCC part 15 b"

Short Description: FCC part 15 b

Detector Meas. IF Start Stop Step Transducer Frequency Frequency Width 30.0 MHz 1.0 GHz 60.0 k Time Bandw. 60.0 kHz MaxPeak 1.0 ms 120 kHz HL562



MEASUREMENT RESULT: "TES_1503_001_fin QP"

23.06.2015 18 Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
30.900000	27.50	20.6	40.0	12.5	127.0	247.00	VERTICAL
33.660000	20.90	19.1	40.0	19.1	217.0	292.00	VERTICAL
69.360000	26.10	8.6	40.0	13.9	125.0	293.00	VERTICAL
194.940000	34.60	9.7	43.5	8.9	101.0	157.00	VERTICAL
402.900000	29.10	15.6	46.0	16.9	100.0	0.00	HORIZONTAL
406.020000	20.30	15.7	46.0	25.7	325.0	338.00	HORIZONTAL
406.200000	29.50	15.7	46.0	16.5	100.0	335.00	HORIZONTAL
406.800000	16.70	15.7	46.0	29.3	240.0	292.00	VERTICAL
407.580000	25.90	15.7	46.0	20.1	143.0	271.00	VERTICAL
891.720000	22.50	23.5	46.0	23.5	376.0	296.00	VERTICAL



Test1: 15b.2; Mode = Generating a high power consumption

Result: Passed

computer peripheral setup, tested at 120 V / 60 Hz

Setup No.: $AB01_compper$

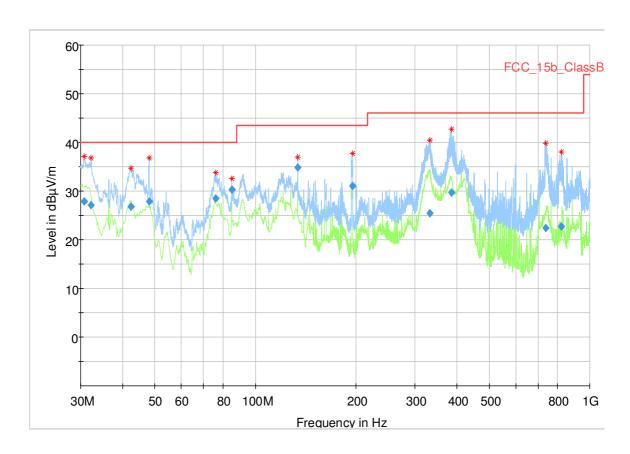
2015/12/10 14:45 Date of Test:

FCC47CFRChIPART15bRADIO FREQUENCY DEVICES Body:

Test Specification: FCC part 2 and 15



Detailed Results:



Critical_Freqs

Officai_i	iicqs										
Frequency (MHz)	MaxPeak (dBµV/m)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
					(ms)						
30.750000	37.06		40.00	2.94			105.0	٧	-111.0	19.9	15:37:39 - 10/12/2015
32.220000	36.82		40.00	3.18	-		132.0	٧	-109.0	19.0	15:39:40 - 10/12/2015
42.330000	34.76		40.00	5.24			109.0	٧	38.0	13.2	15:46:43 - 10/12/2015
48.030000	36.83	-	40.00	3.17	-	-	107.0	٧	56.0	9.2	15:53:01 - 10/12/2015
76.020000	33.75		40.00	6.25	-		154.0	٧	90.0	10.6	15:55:03 - 10/12/2015
84.930000	32.57	-	40.00	7.43	-	-	276.0	Н	-172.0	11.2	15:33:28 - 10/12/2015
133.440000	37.02	-	43.50	6.48	-	-	290.0	H	-101.0	11.0	15:42:24 - 10/12/2015
194.970000	37.80		43.50	5.70			115.0	٧	21.0	9.4	15:48:39 - 10/12/2015
332.430000	40.45	-	46.00	5.55	-	-	109.0	H	-179.0	13.4	15:29:28 - 10/12/2015
385.290000	42.73	-	46.00	3.27	-	1	134.0	Н	-168.0	14.5	15:31:09 - 10/12/2015
738.210000	39.89	-	46.00	6.11		-	182.0	٧	121.0	20.6	15:56:51 - 10/12/2015
822.840000	38.08		46.00	7.92			115.0	٧	-15.0	21.6	15:50:38 - 10/12/2015

Final_Result

i illai_ne	Suit									
Frequency	QuasiPeak	Limit	Margin	Meas.	Bandwidth	Height	Pol	Azimuth	Corr.	Comment
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	Time	(kHz)	(cm)		(deg)	(dB)	
				(ms)						
30.750000	27.94	40.00	12.06	1000.0	120.000	105.0	٧	-111.0	19.9	15:38:02 - 10/12/2015
32.220000	27.07	40.00	12.93	1000.0	120.000	132.0	٧	-109.0	19.0	15:40:03 - 10/12/2015
42.330000	26.78	40.00	13.22	1000.0	120.000	109.0	٧	38.0	13.2	15:46:55 - 10/12/2015
48.030000	27.86	40.00	12.14	1000.0	120.000	107.0	٧	56.0	9.2	15:53:27 - 10/12/2015
76.020000	28.42	40.00	11.58	1000.0	120.000	154.0	٧	90.0	10.6	15:55:23 - 10/12/2015
84.930000	30.25	40.00	9.75	1000.0	120.000	276.0	Н	-172.0	11.2	15:33:46 - 10/12/2015
133.440000	34.89	43.50	8.61	1000.0	120.000	290.0	Н	-101.0	11.0	15:42:46 - 10/12/2015
194.970000	31.06	43.50	12.44	1000.0	120.000	115.0	٧	21.0	9.4	15:48:55 - 10/12/2015
332.430000	25.48	46.00	20.52	1000.0	120.000	109.0	Н	-179.0	13.4	15:29:47 - 10/12/2015
385.290000	29.63	46.00	16.37	1000.0	120.000	134.0	Н	-168.0	14.5	15:31:25 - 10/12/2015
738.210000	22.41	46.00	23.59	1000.0	120.000	182.0	٧	121.0	20.6	15:57:04 - 10/12/2015
822.840000	22.78	46.00	23.22	1000.0	120.000	115.0	٧	-15.0	21.6	15:51:01 - 10/12/2015



According to FCC 47 CFR Ch.1 Part 15 Subpart B, Class B

EMI Auto Test Template: FCC_15b_ClassB_30M-1G

 ${\tt EN_FCC_FieldStrength_WithOut_SU_30M-1G_withoutDistanceCorrection_SAC}$ Hardware Setup:

Open-Area-Test-Site 30 MHz - 1 GHz -10 dB μ V/m - 60 dB μ V/m

Frequency Range: Graphics Level Range: Preview Measurements:

Measurement Type:

FCC_15b_3m_PRE Scan Test Template:

Adjustment:

Template for Single Meas.: FCC_15b_3m_ADJUSTMENT

Final Measurements:

Antenna Tower:

FCC_15b_3m_FINAL Template for Single Meas.:

Hardware Setup: EMI

radiated\EN_FCC_FieldStrength_WithOut_SU_30M-1G_withoutDistanceCorrection_SAC - [EMI radiated]

Subrange 1 Frequency Range: 30 MHz - 1 GHz Receiver:

ESR 7 [ESR 7] @ GPIB1 (ADR 20), SN 1316.3003K07/101424, FW 2.26 ESR7-direct-HL562_001_WithOut_SU_SAC Signal Path:

Correction Table: HL562_to_AP1-X1_SAC
Correction Table: AP1-X1_to_KRE4056-RF-IN1_SAC
HL562_002_AF_SAC_withoutDistanceCorrection

Antenna:

SN 830547/003

Correction Table (vertical): HL562_002_AF_SAC Correction Table (horizontal): HL562_002_AF_SAC

Maturo Antenna Tower [Maturo Antenna Tower]
@ GPIB1 (ADR 7)
Maturo Turntable [Maturo Turntable]
@ GPIB1 (ADR 7) Turntable:



Test Equipment Details

4.1 **List of Used Test Equipment**

The calibration, hardware and software states are shown for the testing period.

Test Equipment Anechoic Chamber

Lab ID: Lab 2 Manufacturer: Frankonia

Description: Anechoic Chamber for radiated testing

Type: 10.58x6.38x6.00 m³

Calibration Details Last Execution Next Exec. 2014/01/09 2017/01/09

NSA (FCC)

Single Devices for Anechoic Chamber

Single Device Name	Туре	Serial Number	Manufacturer
Air compressor	none	-	Atlas Copco
Anechoic Chamber	10.58 x 6.38 x 6.00 m ³ Calibration Details	none	Frankonia Last Execution Next Exec.
	FCC listing 96716 3m Part15/18		2014/01/09 2017/01/08
Controller Maturo	MCU	961208	Maturo GmbH
EMC camera	CE-CAM/1	-	CE-SYS
EMC camera Nr.2	CCD-400E	0005033	Mitsubishi
Filter ISDN	B84312-C110-E1		Siemens&Matsushita
Filter Universal 1A	BB4312-C30-H3	-	Siemens&Matsushita



Test Equipment Auxiliary Equipment for Conducted emissions

Lab ID: Lab 1

Rohde & Schwarz GmbH & Co.KG Manufacturer: Description: EMI Conducted Auxiliary Equipment

Single Devices for Auxiliary Equipment for Conducted emissions

Single Device Name	Туре	Serial Number	Manufacturer
Cable "LISN to ESI"	RG214	W18.03+W48.03	Huber&Suhner
Impedance Stabilization Network	ISN T800	36159	Teseq GmbH
Stabilization Network	Calibration Details		Last Execution Next Exec.
	Standard Calibration		2014/02/06 2016/02/28
Impedance Stabilization Network, Coupling Decoupling Network	ISN/CDN ENY41	100002	Rohde & Schwarz GmbH & Co. KG
Impedance Stabilization Network, Coupling Decoupling Network	ISN/CDN ST08	36292	Teseq GmbH
	Calibration Details		Last Execution Next Exec.
	Standard calibration		2014/01/10 2016/01/31
Impedance Stabilization Network, Coupling Decoupling Network	ISN/CDN T8-Cat6	32187	Teseq GmbH
Necwork	Calibration Details		Last Execution Next Exec.
	Standard Calibration		2014/01/08 2016/01/31
One-Line V-Network	ESH 3-Z6	100489	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		Last Execution Next Exec.
	standard calibration		2014/06/18 2017/11/30
One-Line V-Network	ESH 3-Z6	100570	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		Last Execution Next Exec.
	Standard Calibration		2013/11/25 2016/11/24
Two-Line V-Network	ESH 3-Z5	828304/029	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		Last Execution Next Exec.
	DAkkS Calibration		2015/03/30 2017/03/31
Two-Line V-Network	ESH 3-Z5	829996/002	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		Last Execution Next Exec.
	DAkks Calibration		2015/03/30 2017/03/31



Test Equipment Auxiliary Equipment for Radiated emissions

Lab ID:

Equipment for emission measurements Description:

Serial Number: see single devices

Single Devices for Auxiliary Equipment for Radiated emissions

-			
Single Device Name	Туре	Serial Number	Manufacturer
Antenna mast	AM 4.0	AM4.0/180/11920 513	Maturo GmbH
Biconical Broadband Antenna	SBA 9119	9119-005	Schwarzbeck Mess- Elektronik OHG
Biconical dipole	VUBA 9117	9117-108	Schwarzbeck Mess- Elektronik OHG
Broadband Amplifier 1 GHz - 4 GHz	AFS4-01000400-1Q-10P-4	-	Miteq
Broadband Amplifier 18 GHz - 26 GHz	JS4-18002600-32-5P	849785	Miteq
Broadband Amplifier 30 MHz - 18 GHz	JS4-00101800-35-5P	896037	Miteq
Cable "ESI to EMI Antenna"	EcoFlex10	W18.01- 2+W38.01-2	Kabel Kusch
Cable "ESI to Horn Antenna"	SucoFlex	W18.02- 2+W38.02-2	HUBER+SUHNER
Double-ridged horn	HF 906 Calibration Details	357357/002	Rohde & Schwarz GmbH & Co. KG Last Execution Next Exec.
	Standard Calibration Standard Calibration		2012/06/26 2015/06/25 2015/06/23 2018/06/22
Double-ridged horn	HF 907	102444	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		Last Execution Next Exec.
	Standard Calibration		2015/05/11 2018/05/10
Double-ridged horn- duplicated 2015-07- 15 10:47:55	HF 906	357357/001	Rohde & Schwarz GmbH & Co. KG
High Pass Filter	4HC1600/12750-1.5-KK	9942011	Trilithic
High Pass Filter	5HC2700/12750-1.5-KK	9942012	Trilithic
High Pass Filter			
	5HC3500/18000-1.2-KK	200035008	Trilithic
High Pass Filter	5HC3500/18000-1.2-KK WHKX 7.0/18G-8SS	200035008 09	Trilithic Wainwright
Horn Antenna Schwarzbeck 15-26.5	•		
Horn Antenna Schwarzbeck 15-26.5 GHz BBHA 9170	WHKX 7.0/18G-8SS	09	Wainwright Schwarzbeck Mess-
Horn Antenna Schwarzbeck 15-26.5 GHz BBHA 9170	WHKX 7.0/18G-8SS BBHA 9170	09 ВВНА9170262	Wainwright Schwarzbeck Mess- Elektronik OHG Rohde & Schwarz GmbH &
Horn Antenna Schwarzbeck 15-26.5 GHz BBHA 9170	WHKX 7.0/18G-8SS BBHA 9170 HL 562 Ultralog	09 ВВНА9170262	Wainwright Schwarzbeck Mess- Elektronik OHG Rohde & Schwarz GmbH & Co. KG
Horn Antenna Schwarzbeck 15-26.5 GHz BBHA 9170 Logper. Antenna Logper. Antenna	WHKX 7.0/18G-8SS BBHA 9170 HL 562 Ultralog Calibration Details	09 ВВНА9170262	Wainwright Schwarzbeck Mess- Elektronik OHG Rohde & Schwarz GmbH & Co. KG Last Execution Next Exec. 2012/12/18 2015/12/17 Rohde & Schwarz GmbH & Co. KG
Horn Antenna Schwarzbeck 15-26.5 GHz BBHA 9170 Logper. Antenna Logper. Antenna	WHKX 7.0/18G-8SS BBHA 9170 HL 562 Ultralog Calibration Details Standard Calibration	09 BBHA9170262 100609	Wainwright Schwarzbeck Mess- Elektronik OHG Rohde & Schwarz GmbH & Co. KG Last Execution Next Exec. 2012/12/18 2015/12/17 Rohde & Schwarz GmbH &
High Pass Filter Horn Antenna Schwarzbeck 15-26.5 GHz BBHA 9170 Logper. Antenna Logper. Antenna (upgraded)	WHKX 7.0/18G-8SS BBHA 9170 HL 562 Ultralog Calibration Details Standard Calibration HL 562 Ultralog new biconicals	09 BBHA9170262 100609	Wainwright Schwarzbeck Mess- Elektronik OHG Rohde & Schwarz GmbH & Co. KG Last Execution Next Exec. 2012/12/18 2015/12/17 Rohde & Schwarz GmbH & Co. KG
Horn Antenna Schwarzbeck 15-26.5 GHz BBHA 9170 Logper. Antenna Logper. Antenna	WHKX 7.0/18G-8SS BBHA 9170 HL 562 Ultralog Calibration Details Standard Calibration HL 562 Ultralog new biconicals Calibration Details	09 BBHA9170262 100609	Wainwright Schwarzbeck Mess- Elektronik OHG Rohde & Schwarz GmbH & Co. KG Last Execution Next Exec. 2012/12/18 2015/12/17 Rohde & Schwarz GmbH & Co. KG Last Execution Next Exec.



Single Devices for Auxiliary Equipment for Radiated emissions (continued)

Single Device Name	Type	Serial Number	Manufacturer
	DKD Calibration		2014/11/27 2017/11/27
Standard Gain / Pyramidal Horn Antenna 26.5 GHz	3160-09	00083069	EMCO Elektronik GmbH
Standard Gain / Pyramidal Horn Antenna 40 GHz	3160-10	00086675	EMCO Elektronik GmbH
Tilt device Maturo (Rohacell)	Antrieb TD1.5-10kg	TD1.5- 10kg/024/379070 9	Maturo GmbH)



Test Equipment Auxiliary Test Equipment

Lab 2

Manufacturer: see single devices

Description: Single Devices for various Test Equipment

Type: various Serial Number: none

Single Devices for Auxiliary Test Equipment

_	, , ,		
Single Device Name	Туре	Serial Number	Manufacturer
Broadband Power Divider N (Aux)	1506A / 93459	LM390	Weinschel Associates
Broadband Power Divider SMA	WA1515	A855	Weinschel Associates
Digital Multimeter 03 (Multimeter)	Fluke 177	86670383	Fluke Europe B.V.
(1.10.1.1.1.000.)	Calibration Details		Last Execution Next Exec.
	Customized calibration		2013/12/04 2015/12/03
Digital Multimeter 13 (Clamp Meter)	Fluke 325	31270091WS	FLUKE
Fibre optic link Satellite (Aux)	FO RS232 Link	181-018	Pontis
Fibre optic link Transceiver (Aux)	FO RS232 Link	182-018	Pontis
Isolating Transformer	LTS 604	1888	Thalheimer Transformatorenwerke GmbH
Notch Filter Ultra Stable (Aux)	WRCA800/960-6EEK	24	Wainwright
Signal Analyzer	FSV30	103005	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		Last Execution Next Exec.
	Standard		2014/02/10 2016/02/09
Spectrum Analyser	FSU26	200418	Rohde & Schwarz GmbH & Co.KG
	Calibration Details		Last Execution Next Exec.
	Standard calibration		2014/07/29 2015/07/28
	Standard calibration		2015/10/20 2016/10/19
Spectrum Analyzer	FSP3	836722/011	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		Last Execution Next Exec.
	DKD calibration		2015/06/23 2018/06/22
Vector Signal Generator	SMIQ 03B	832492/061	Rohde & Schwarz GmbH & Co.KG



Test Equipment Digital Signalling Devices

Lab ID: Lab 1, Lab 2

Signalling equipment for various wireless technologies. Description:

Single Devices for Digital Signalling Devices

Single Device Name	Туре	Serial Number	Manufacturer
CMW500	CMW500	107500	Rohde & Schwarz GmbH & Co.KG
	Calibration Details		Last Execution Next Exec.
	Standard calibration		2014/01/27 2016/01/26
Digital Radio Communication Tester	CMD 55	831050/020	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		Last Execution Next Exec.
	DKD calibration		2014/12/02 2017/12/01
Universal Radio Communication Tester	CMU 200	102366	Rohde & Schwarz GmbH & Co. KG
	HW/SW Status		Date of Start Date of End
	Hardware: B11, B21V14, B21-2, B41, B52V14, I B53-2, B56V14, B68 3v04, PCMCIA, Software: K21 4v21, K22 4v21, K23 4v21, K24 K43 4v21, K53 4v21, K56 4v22, K57 K59 4v22, K61 4v22, K62 4v22, K63 K65 4v22, K66 4v22, K67 4v22, K68 Firmware: µP1 8v50 02.05.06	U65V04 4v21, K42 4v21, 4v22, K58 4v22, 4v22, K64 4v22,	2007/07/16
Universal Radio Communication Tester	CMU 200 Calibration Details	837983/052	Rohde & Schwarz GmbH & Co. KG Last Execution Next Exec.
	DKD calibration		2014/12/03 2017/12/02
	HW/SW Status		Date of Start Date of End
	HW options: B11, B21V14, B21-2, B41, B52V14, I B54V14, B56V14, B68 3v04, B95, PC SW options: K21 4v11, K22 4v11, K23 4v11, K24 K28 4v10, K42 4v11, K43 4v11, K53 K66 4v10, K68 4v10, Firmware: μP1 8v40 01.12.05	MCIA, U65V02 4v11, K27 4v10,	2007/01/02
	SW: K62, K69		2008/11/03
Vector Signal Generator	SMU200A	100912	Rohde & Schwarz GmbH & Co. KG



Test Equipment Emission measurement devices

Lab ID: Lab 1, Lab 2

Equipment for emission measurements Description:

Serial Number: see single devices

Single Devices for Emission measurement devices

Single Device Name	Туре	Serial Number	Manufacturer
EMI Receiver / Spectrum Analyzer	ESR 7	101424	Rohde & Schwarz
, , ,	Calibration Details		Last Execution Next Exec.
	Initial Factory Calibration		2014/11/13 2016/11/12
Personal Computer	Dell	30304832059	Dell
Power Meter	NRVD	828110/016	Rohde & Schwarz GmbH & Co.KG
	Calibration Details		Last Execution Next Exec.
	Standard calibration		2015/05/11 2016/05/10
Sensor Head A	NRV-Z1	827753/005	Rohde & Schwarz GmbH & Co.KG
	Calibration Details		Last Execution Next Exec.
	Standard calibration		2015/05/11 2016/05/10
Signal Generator	SMR 20	846834/008	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		Last Execution Next Exec.
	Standard Calibration		2014/06/24 2017/06/23
Spectrum Analyzer	ESIB 26	830482/004	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		Last Execution Next Exec.
	Standard Calibration		2014/01/07 2016/01/31
	HW/SW Status		Date of Start Date of End
	Firmware-Update 4.34.4 from 3.45	during calibration	2009/12/03
Spectrum Analyzer	FSW 43 Calibration Details	103779	Rohde & Schwarz Last Execution Next Exec.
	Initial Factory Calibration		2014/11/17 2016/11/16



According to FCC 47 CFR Ch.1 Part 15 Subpart B, Class B

Test Equipment Harmonic & Flicker measurement system and AC Source

Lab ID: Lab 1

Manufacturer: Spitzenberger & Spieß GmbH & Co. KG

Description: EN61000-3-2&3 test system, source for magnetic field EN61000-4-8

Type: PHE 1200/B Spitzenberger&Spies

Serial Number: B6280

Single Devices for Harmonic & Flicker measurement system and AC Source

Single Device Name	Туре	Serial Number	Manufacturer
Amplifier with integrated variable Oscillator	EP 1200/B, NA/B1	B6278	Spitzenberger & Spieß GmbH & Co. KG
	Calibration Details		Last Execution Next Exec.
	Standard Calibration		2015/07/23 2018/07/30
Flickermeter / Harmonic Analyzer	B10	M70579	Spitzenberger & Spieß GmbH & Co. KG
,	Calibration Details		Last Execution Next Exec.
	Standard Calibration		2015/07/23 2018/07/30
Line impedance simulation system	1-pase 16A	B6279	Spitzenberger & Spieß GmbH & Co. KG
	Calibration Details		Last Execution Next Exec.
	Standard Calibration		2015/07/22 2018/07/30

Test Equipment Multimeter 03

Lab ID:Lab 2Description:Fluke 177Serial Number:86670383

Single Devices for Multimeter 03

Single Device Name	Туре	Serial Number	Manufacturer
Digital Multimeter 03 (Multimeter)	Fluke 177	86670383	Fluke Europe B.V.
(Calibration Details		Last Execution Next Exec.
	Customized calibration		2013/12/04 2015/12/03

Test Equipment Shielded Room 02

Lab ID:Lab 1Manufacturer:Frankonia

Description: Shielded Room for conducted testing

Type: 12 qm Serial Number: none



Test Equipment T/A Logger 13

Lab ID:Lab 1, Lab 2Description:Lufft Opus10 TPRType:Opus10 TPRSerial Number:13936

Single Devices for T/A Logger 13

Single Device Name	Туре	Serial Number	Manufacturer
ThermoAirpressure Datalogger 13 (Environ)	Opus10 TPR (8253.00)	13936	Lufft Mess- und Regeltechnik GmbH
,	Calibration Details		Last Execution Next Exec.
	Customized calibration		2015/02/27 2017/02/26

Test Equipment T/H Logger 02

Lab ID:Lab 1Description:Lufft Opus10Serial Number:7489

Single Devices for T/H Logger 02

Single Device Name	Туре	Serial Number	Manufacturer
ThermoHygro Datalogger 02 (Environ)	Opus10 THI (8152.00)	7489	Lufft Mess- und Regeltechnik GmbH
,	Calibration Details		Last Execution Next Exec.
	Customized calibration		2015/02/27 2017/02/26

Test Equipment T/H Logger 12

Lab ID:Lab 2Description:Lufft Opus10Serial Number:12482

Single Devices for T/H Logger 12

Single Device Name	Туре	Serial Number	Manufacturer
ThermoHygro Datalogger 12 (Environ)	Opus10 THI (8152.00)	12482	Lufft Mess- und Regeltechnik GmbH
,	Calibration Details		Last Execution Next Exec.
	Customized calibration		2015/03/10 2017/03/09



- 5 **Annex**
- 5.1 **Additional Information for Report**



Test Description

Conducted emissions (AC power line)

Standard FCC Part 15 Subpart B

The test was performed according to: ANSI C 63.4, 2014

Test Description

The test set-up was made in accordance to the general provisions of ANSI C 63.4-2014. The Equipment Under Test (EUT) was setup in a shielded room to perform the conducted emissions measurements in a typical installation configuration. The EUT was connected to a 50 μ H || 50 Ohm Line Impedance Stabilization Network (LISN), which meets the requirements of ANSI C63.4-2014, Annex B, in the frequency range of the measurements. The LISN's unused connections were terminated with 50 Ohm loads. AC Power supply voltage for EUT: 120 V 60 Hz (if not stated within the measurement plot and/or test result).

The measurement procedure consists of two steps. It is implemented into the EMI test software ES-K1 from R&S.

Step 1: Preliminary scan

Intention of this step is, to determine the conducted EMI-profile of the EUT.

EMI receiver settings:

- Detector: Peak Maxhold
- Frequency range: 150 kHz 30 MHz
- Frequency steps: 5 kHzIF-Bandwidth: 9 kHz
- Measuring time / Frequency step: 100 ms (FFT-based)
- Measurement on phase + neutral lines of the power cords

On basis of this preliminary scan the highest amplitudes and the corresponding frequencies relative to the limit are identified. Emissions above the limit and emissions which are in the 10 dB range below the limit are considered.

Step 2: Final measurement

Intention of this step is, to determine the highest emissions with the settings defined in the test specification for the frequencies identified in step 1.

EMI receiver settings:

- Detector: Quasi-PeakIF Bandwidth: 9 kHz
- Measuring time: 1 s / frequency

At each frequency determined in step 1, four measurements are performed in the following combinations:

- 1) Neutral lead reference ground (PE grounded)
- 2) Phase lead reference ground (PE grounded)
- 3) Neutral lead reference ground (PE floating)
- 4) Phase lead reference ground (PE floating)

The highest value is reported.

Test Requirements / Limits

If not stated within the measurement plot and/or test result, class B limits are applied.

FCC Part 15, Subpart B, §15.107, Class B Limit

Frequency Range (MHz) QP Limit (dBμV) AV Limit (dBμV) 0.15 - 0.5 66 to 56 56 to 46 0.5 - 5 56 46 5 - 30 60 50

FCC Part 15, Subpart B, §15.107, Class A Limit



According to FCC 47 CFR Ch.1 Part 15 Subpart B, Class B

Frequency Range (MHz) QP Limit (dB μ V) AV Limit (dB μ V) 0.15 - 0.5 79 66 60 60

Used conversion factor: Limit (dB μ V) = 20 log (Limit (μ V)/1 μ V).

NOTES:

A missing result table in the corresponding test report section means, that no final measurement was performed because no relevant frequencies (peaks) were found in the preliminary scan.

The chosen operating mode is selected as representative mode to generate "worst-case" conditions, i.e. high power consumption.

Spurious radiated emissions

Standard FCC Part 15, Subpart B

The test was performed according to: ANSI C 63.4, 2014

Test Description

Measurement below 1 GHz:

The test set-up was made in accordance to the general provisions of ANSI C 63.4-2014.

The Equipment Under Test (EUT) was set up on a non-conductive table 1.0 x 2.0 m in the semi-anechoic chamber. The influence of the EUT support table that is used between 30–1000 MHz was evaluated. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The measurement procedure is implemented into the EMI test software ES-K1 from R&S. The radiated emissions measurements were made in a typical installation configuration. Exploratory tests are performed at 3 orthogonal axes to determine the worst-case orientation of a body-worn or handheld EUT. The final test on all kind of EUTs is performed at 2 axes. A pre-check is also performed while the EUT is powered from both AC and DC (battery) power in order to find the worst-case operating condition. AC Power supply voltage for EUT: 120 V 60 Hz (if not stated within the measurement plot and/or test result).

Step 1: Preliminary scan (test to identify the highest amplitudes relative to the limit) Intention of this step is, to determine the radiated EMI-profile of the EUT.

Settings for step 1:

- Antenna distance: 3 m
- Detector: Peak-Maxhold / quasipeak (FFT-based)
- Frequency range: 30 1000 MHz
- Frequency steps: 30 kHzIF-Bandwidth: 120 kHz
- Measuring time / Frequency step: 100 ms
- Turntable angle range: -180° to +90°
- Turntable step size: 90°
- Height variation range: 1 3 m
- Height variation step size: 2 m
- Polarization: Horizontal + Vertical

On basis of this preliminary scan the highest amplitudes and the corresponding frequencies relative to the limit are identified. Emissions above the limit and emissions which are in the 10 dB range below the limit are considered.

Step 2:

In this step the accuracy of the turntable azimuth and antenna height will be improved. This is necessary to find out the maximum value of every frequency.

For each frequency, which was determined the turntable azimuth and antenna height will be adjusted. The turntable azimuth will slowly vary by \pm 45° around this value. During this action, the value of emission is continuously measured. The turntable azimuth at the highest emission will be recorded and adjusted. In this position, the antenna height will also slowly vary by \pm 100 cm around the antenna height determined. During this action, the value of emission is also continuously measured. The antenna height of the highest emission will also be recorded and adjusted.

Settings for step 2:

- Detector: Peak Maxhold
- Measured frequencies: in step 1 determined frequencies
- IF Bandwidth: 120 kHz
- Measuring time: 100 ms
- Turntable angle range: ± 45° around the determined value
- Height variation range: ± 100 cm around the determined value
- Polarizations: max. value determined in step 1



According to FCC 47 CFR Ch.1 Part 15 Subpart B, Class B

After this step the EMI test system has determined the following values for each frequency (of step 1):

- Frequency
- Azimuth value (of turntable)
- Antenna height

Step 3: Final measurement (with QP detector)

With the settings determined in step 3, the final measurement will be performed:

EMI receiver settings for step 4:

- Detector: Quasi-Peak(< 1GHz)
- Measured frequencies: in step 1 determined frequencies
- IF Bandwidth: 120 kHz
- Measuring time: 1 s

3. Measurement above 1 GHz

The following modifications apply to the measurement procedure for the frequency range above 1 GHz: Step 1:

All steps were performed with one height of the receiving antenna only.

The EUT is turned during the preliminary measurement across the elevation axis, with a step size of 90 °.

The turn table step size (azimuth angle) for the preliminary measurement is 45 °.

Step 2:

Due to the fact, that in this frequency range the test is performed in a fully anechoic room, the height scan of the receiving antenna instep 2 is omitted. Instead of this, a maximum search with a step size \pm 45° for the elevation axis is performed.

The turn table azimuth will slowly vary by \pm 22.5°.

The elevation angle will slowly vary by \pm 45°

EMI receiver settings (for all steps):

- Detector: Peak, Average
- IF Bandwidth = 1 MHz

Step 3:

Spectrum analyser settings for step 3:

- Detector: Peak / Average
- Measured frequencies: in step 1 determined frequencies
- IF Bandwidth: 1 MHz
- Measuring time: 1 s

Test Requirements / Limits

If not stated within the measurement plot and/or test result, class B limits are applied.

FCC Part 15, Subpart B, §15.109, Radiated Emission Limits

Frequency Range (MHz)	Class B Limit (dBµV/m)
30 - 88	40.0
88 - 216	43.5
216 - 960	46.0
above 960	54.0
Frequency Range (MHz)	Class A Limit (dBµV/m) / @ 3 m!
30 - 88	49.5
88 - 216	54.0
216 - 960	56.9
above 960	60.0

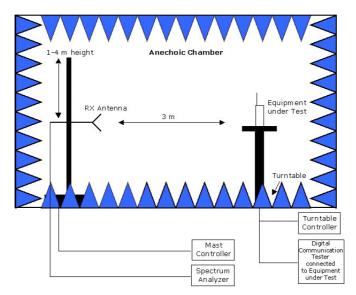
§15.35(b)

..., there is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.... Used conversion factor: Limit $(dB\mu V/m) = 20 \log (Limit (\mu V/m)/1\mu V/m)$

NOTE: A missing result table in the corresponding test report section means, that no final measurement was performed because no relevant frequencies (peaks) were found in the preliminary scan.

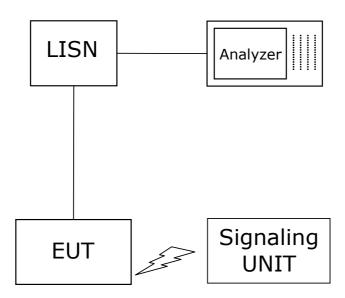


Setup Drawings



Remark: Depending on the frequency range suitable antenna types, attenuators or preamplifiers are used.

Setup in the Anechoic chamber. For measurements below 1 GHz the ground was replaced by a conducting ground plane.



Setup in the shielded room for conducted measurements at AC mains port



According to FCC 47 CFR Ch.1 Part 15 Subpart B, Class B

November, 2014

To Whom This May Concern

Correlation of measurement requirements for Information Technology Equipment (ITE) / Digital Circuits from FCC and IC

Information Technology Equipment (ITE) / Radio Apparatus Containing Digital Circuits

Measurement	FCC reference	IC reference
Conducted emissions on AC Mains	§15.107	ICES-003 Issue 6: 6.1
Spurious Radiated Emissions	§15.109	ICES-003 Issue 6: 6.2

Remarks:

- FCC Part 15 subpart B, ICES 003 and CISPR 22 contain different definitions of Class A and Class B limits, i.e. which class is applicable to which kind of EUT.
 ICES 003 and CISPR 22 distinguish between the location where the EUT is intended to operate whilst FCC refers to the method of commercial distribution (distributive trades).
- 2. The correct assignment of the appropriate class to the concrete EUT is not scope of this test report!



Measurement Uncertainties

FCC Part 22, 24, 27, 90 IC RSS-132, RSS-133, RSS-139

Test Case	Parameter	Uncertainty
RF Power Output	Power	± 2.2 dB
Frequency Stability	Frequency	± 25 Hz
Spurious Emissions at	Power	± 2.2 dB
antenna terminal		
Field strength of spurious	Power	± 4.5 dB
radiation		
Emission and Occupied	Power	± 2.9 dB
Bandwidth	Frequency	GSM: ± 10.6 kHz
		UMTS, LTE: ± 120.0 kHz
Band Edge Compliance	Power	± 2.9 dB
	Frequency	GSM: ± 14.6 kHz
		UMTS, LTE: ± 68.0 kHz

FCC Part 15b IC ICES-003

Test Case	Parameter	Uncertainty
AC Power Line	Power	± 3.4 dB
Field Strength of spurious radiation	Power+	± 5.5 dB

FCC Part 15c, 15e IC RSS-210, IC RSS-247

Test Case	Parameter	Uncertainty
AC Power Line	Power	± 3.4 dB
Field Strength of spurious radiation	Power	± 5.5 dB
6 dB / 26 dB / 99%	Power	± 2.9 dB
Bandwidth	Frequency	± 11.2 kHz
Conducted Output Power		± 2.2 dB
Spurious Emissions at antenna terminal	Power	± 2.2 dB
Band Edge Compliance	Power	± 2.2 dB
	Frequency	± 11.2 kHz
Frequency Stability	Frequency	± 25 Hz
Power Spectral Density	Power	± 2.2 dB



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