

Inter**Lab** Final Report on

Parrot Flower Power (FCC ID: RKXHAWAII)

Report Reference: MDE_PARRO_1313_FCCb

acc. Title 47 CFR chapter I part 15 subpart B

Date: September 24, 2013

Test Laboratory:

7Layers AG Borsigstr. 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.

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Akkreditierungsstelle

D-PI-12140-01-01



acc. Title 47 CFR chapter I part 15 subpart B

1 Administrative Data

1.1 Project Data

Project Responsible:

Imad Hjije

Date Of Test Report:

2013/09/24

Date of first test:

2013/09/02

Date of last test:

2013/09/02

1.2 Applicant Data

Company Name:

Parrot S.A.

Street:

174 quai de Jemmapes

City: Country: 75010 Paris France

Contact Person:

Mr. Salem Boushabi

Phone:

+33 (0) 1 48 03 74 07

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E-Mail:

salem.boushabi@parrot.com

1.3 Test Laboratory Data

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

7 layers DE

Company Name :

7 layers AG

Street:

Borsigstrasse 11

City:

40880 Ratingen

Country:

Germany

Contact Person :

Mr. Michael Albert

Phone :

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Laboratory Details

Lab ID

Identification

Responsible

Accreditation Info

Lab 2

Radiated Emissions

Mr. Robert Machulec Mr. Andreas Petz DAkkS-Registration no. D-PL-12140-01-01

1.4 Signature of the Testing Responsible

Patrick Lomax

responsible for tests performed in: Lab 2



acc. Title 47 CFR chapter I part 15 subpart B

1.5 Signature of the Accreditation Responsible

R. RETKA]

Accreditation scope responsible person responsible for Lab 2

2 Test Object Data

2.1 General OUT Description

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

OUT: Parrot Flower Power

Manufacturer:

Company Name:

Jabil Circuit (Guangzhou) Ltd.

Street:

128 Juncheng Road, GETDD

City:

510530 Guangzhou

Country:

China

Contact Person:

Mr. Li Jianhua

Parameter List:

Parameter name

Value

Parameter for Scope FCC_v2:

Antenna Gain
highest channel (BT)
lowest channel (BT)

-4 (dBi) 2480 (MI

2480 (MHz) 2402 (MHz)

mid channel (BT)

(MHz)

Powered by Battery

1.5 (V)

2441



Reference: MDE PARRO 1313 FCCb

acc. Title 47 CFR chapter I part 15 subpart B

2.2 Detailed Description of OUT Samples

Sample: c01

OUT Identifier Parrot Flower Power

Sample Description Sample#2
Serial No. LFNR3F006QAA

HW Status DV1

SW Status HostTestReleaseCC2540.hex

Nominal Voltage 1.2 V Normal Temp. 23 °C

Parameter List:

Parameter Description Value

Parameter for Scope FCC_v2

Antenna Gain -4 (dBi)
Frequency_high 2480 (MHz)
Frequency_low 2402 (MHz)
Frequency_mid 2440 (MHz)

2.3 OUT Features

Features for OUT: Parrot Flower Power

Designation Description Allowed Values Supported Value(s)

Features for scope: FCC_v2

BT LE 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

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 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.

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

C01 (Radiated test setup)

Sample: c01 Sample#2



acc. Title 47 CFR chapter I part 15 subpart 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) The laboratory environmental conditions are available and

récorded in the Interlab System.

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 10-1-11 Edition

Title: PART 2 - GENERAL RULES AND REGULATIONS

PART 15 - RADIO FREQUENCY DEVICES



acc. Title 47 CFR chapter I part 15 subpart B

3.4 Summary

Test Case Identifier / Name			Lab	
Test (condition)	Result	Date of Test	Ref.	Setup
15b.2 Spurious Radiated Emissions §15.109 15b.2; Mode = generating a high power consumption	Passed	2013/09/02	Lab 2	C01



acc. Title 47 CFR chapter I part 15 subpart B

3.5 Detailed Results

3.5.1 15b.2 Spurious Radiated Emissions §15.109

Test: 15b.2; Mode = generating a high power consumption

Result: Passed

Setup No.: C01

Date of Test: 2013/09/02 20:43

Body: FCC47CFRChIPART15bRADIO FREQUENCY DEVICES

Test Specification: FCC part 2 and 15



acc. Title 47 CFR chapter I part 15 subpart B

Detailed Results:

EMI RADIATED TEST

EUT: (CX630c01) Manufacturer: Parrot S.A.

Operating Condition: BT low energy, TX on 2440 MHz, 1-DH1, local TX, with battery

Test Site: 7 layers, Ratingen

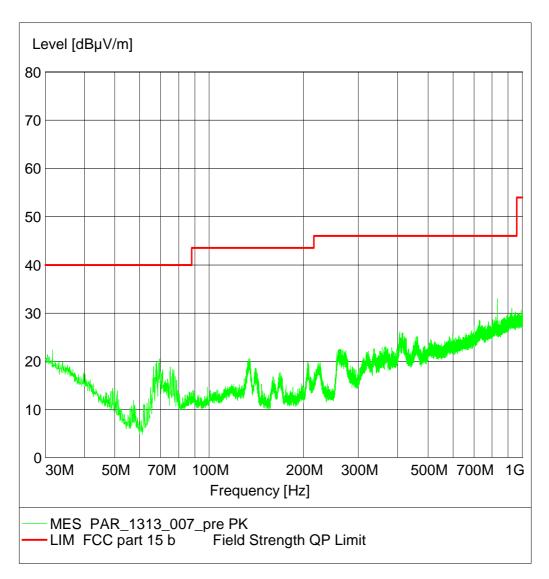
IJRO Operator:

Test Specification: FCC part 15 b

Comment: Horizontal EUT position Start of Test: 02.09.2013 / 20:43:36

SCAN TABLE: "FCC part 15 b"

Short Description: FCC part 15 b
Start Stop Step Detector Meas. IF Transcription: Time Bandw.
30.0 MHz 1.0 GHz 60.0 kHz MaxPeak 1.0 ms 120 kHz HL562 Transducer





acc. Title 47 CFR chapter I part 15 subpart B

4 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 2Manufacturer:Frankonia

Description: Anechoic Chamber for radiated testing

Type: 10.58x6.38x6.00 m³

Calibration DetailsLast ExecutionNext Exec.NSA (FCC, IC)2011/01/102014/01/10

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 IC listing 3699A-1 3m		2011/01/11 2014/01/10 2011/02/07 2014/02/06
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



acc. Title 47 CFR chapter I part 15 subpart B

Test Equipment Auxiliary Equipment for Radiated emissions

Lab ID: Lab 2

Description: Equipment for emission measurements

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	AM4.0/180/1192 513	0 Maturo GmbH
Biconical Broadband Antenna	SBA 9119	9119-005	Schwarzbeck
	Calibration Details		Last Execution Next Exec.
	Standard Calibration		2009/06/04 2014/06/03
Biconical dipole	VUBA 9117 Calibration Details	9117-108	Schwarzbeck Last Execution Next Exec.
	Standard Calibration Standard Calibration		2008/10/27 2013/10/26 2012/01/18 2015/01/17
Broadband Amplifier 18MHz-26GHz	JS4-18002600-32-5P	849785	Miteq
Broadband Amplifier 1GHz-4GHz	AFS4-01000400-1Q-10P-4	-	Miteq
Broadband Amplifier 30MHz-18GHz	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"	UFB311A+UFB293C	W18.02- 2+W38.02-2	Rosenberger Micro-Coax
Double-ridged horn	HF 906	357357/001	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		Last Execution Next Exec.
	Standard Calibration		2012/05/18 2015/05/17
Double-ridged horn	HF 906	357357/002	Rohde & Schwarz GmbH & Co. KG
	Calibration Details Standard Calibration		Last Execution Next Exec. 2012/06/26 2015/06/25
rat Bara Etha		0042044	
High Pass Filter	4HC1600/12750-1.5-KK	9942011	Trilithic
High Pass Filter	5HC2700/12750-1.5-KK	9942012	Trilithic
High Pass Filter	5HC3500/12750-1.2-KK	200035008	Trilithic
High Pass Filter	WHKX 7.0/18G-8SS	09	Wainwright
Horn Antenna Schwarzbeck 15-26 GHz BBHA 9170	BBHA 9170		
ogper. Antenna	HL 562 Ultralog	100609	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		Last Execution Next Exec.
	Standard Calibration		2012/12/18 2015/12/17
₋ogper. Antenna	HL 562 Ultralog	830547/003	Rohde & Schwarz GmbH & Co. KG
_oop Antenna	HFH2-Z2	829324/006	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		Last Execution Next Exec.
	Standard calibration		2011/10/27 2014/10/26



acc. Title 47 CFR chapter I part 15 subpart B

Single Devices for Auxiliary Equipment for Radiated emissions (continued)

Single Device Name	Туре	Serial Number	Manufacturer
Pyramidal Horn Antenna 26,5 GHz	3160-09	00083069	EMCO Elektronik GmbH
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 ID: Lab 2

Manufacturer: see single devices

Description: Single Devices for various Test Equipment

Type: variou 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.	
(Francisco)	Calibration Details		Last Execution Next Exec.	
	Customized calibration		2011/10/19 2013/10/18	
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	
Spectrum Analyser	FSP3	836722/011	Rohde & Schwarz GmbH & Co. KG	
	Calibration Details		Last Execution Next Exec.	
	Standard		2012/06/13 2015/06/12	
Vector Signal Generator	SMIQ 03B	832492/061	Rohde & Schwarz GmbH & Co.KG	



acc. Title 47 CFR chapter I part 15 subpart B

Test Equipment Digital Signalling Devices

Lab ID: Lab 2

Description: Signalling equipment for various wireless technologies.

Single Devices for Digital Signalling Devices

Single Device Name	Туре	Serial Number	Manufacturer
Bluetooth Signalling Unit CBT	СВТ	100589	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		Last Execution Next Exec.
	Standard calibration		2011/11/24 2014/11/23
CMW500	CMW500	107500	Rohde & Schwarz GmbH & Co.KG
	Calibration Details		Last Execution Next Exec.
	Initial factory calibration		2012/01/26 2014/01/25
Digital Radio Communication Tester	CMD 55	831050/020	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		Last Execution Next Exec.
	Standard calibration		2011/11/28 2014/11/27
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, 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, 4v22, K69 4v22	2007/07/16
Universal Radio Communication Tester	CMU 200	837983/052	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		Last Execution Next Exec.
	Standard calibration		2011/12/07 2014/12/06
	HW/SW Status		Date of Start Date of End
	HW options: B11, B21V14, B21-2, B41, B52V14, B54V14, B56V14, B68 3v04, B95, P0 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	CMCIA, U65V02 4v11, K27 4v10,	2007/01/02
	SW: K62, K69		2008/11/03
Vector Signal Generator	SMU200A	100912	Rohde & Schwarz GmbH & Co. KG



acc. Title 47 CFR chapter I part 15 subpart B

Test Equipment Emission measurement devices

Lab ID: Lab 2

Description: Equipment for emission measurements

Serial Number: see single devices

Single Devices for Emission measurement devices

Single Device Name	Туре	Serial Number	Manufacturer
Personal Computer	Dell	30304832059	Dell
Power Meter	NRVD	828110/016	Rohde & Schwarz GmbH & Co.KG
	Calibration Details		Last Execution Next Exec.
	Standard calibration		2013/05/03 2014/05/02
Sensor Head A	NRV-Z1	827753/005	Rohde & Schwarz GmbH & Co.KG
	Calibration Details		Last Execution Next Exec.
	Standard calibration		2013/04/30 2014/04/29
Signal Generator	SMR 20	846834/008	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		Last Execution Next Exec.
	standard calibration		2011/05/12 2014/05/11
Spectrum Analyzer	ESIB 26	830482/004	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		Last Execution Next Exec.
	Standard Calibration		2011/12/05 2013/12/04
	HW/SW Status		Date of Start Date of End
	Firmware-Update 4.34.4 from 3.45 during calibration		2009/12/03



acc. Title 47 CFR chapter I part 15 subpart B

- 5 Annex
- 5.1 Additional Information for Report



Reference: MDE PARRO 1313 FCCb

acc. Title 47 CFR chapter I part 15 subpart B

Test Description

Conducted emissions (AC power line)

The test was performed according to: ANSI C 63.4, 2009

FCC Part 15 Subpart B

Test Description

Standard

The test set-up was made in accordance to the general provisions of ANSI C 63.4-2009. 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 powered from 50µH || 50 Ohm Line Impedance Stabilization Network (LISN) which meets the requirements of ANSI C63.4-2009, Annex B, in the frequency range of the measurements. The LISN's unused connections were terminated with 50 Ohm loads.

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: 20 ms
- 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-Peak
- IF 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



Reference: MDE PARRO 1313 FCCb

acc. Title 47 CFR chapter I part 15 subpart B

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

Frequency Range (MHz) QP Limit (dBµV) AV Limit (dBµV) 0.15 - 0.579 0.5 - 30 73 60

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

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, 2009

Test Description

Measurement below 1 GHz:

The test set-up was made in accordance to the general provisions of ANSI C 63.4-2009. 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.

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:

- Detector: Peak-Maxhold
- Frequency range: 30 1000 MHz
- Frequency steps: 60 kHz - IF-Bandwidth: 120 kHz
- Measuring time / Frequency step: $100 \mu s$
- Turntable angle range: -180° to +180° Turntable step size: 90°
- Height variation range: 1 3 m
- Height variation step size: 2 m
- Polarisation: 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.

A further measurement will be performed on the frequencies determined in step 1. Intention of this step is, to find out the approximate turntable angle and antenna height for each frequency.

- Detector: Peak - Maxhold

Settings for step 2:

- Measured frequencies: in step 1 determined frequencies
- IF Bandwidth: 120 kHz
- Measuring time: 100 ms
- Turntable angle range: -180° to +180° Turntable step size: 45°
- Height variation range: 1 4 m



acc. Title 47 CFR chapter I part 15 subpart B

- Height variation step size: 0.5 m
- Polarisation: horizontal + vertical

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

The last two values have now the following accuracy:

- Azimuth value (of turntable): 45°
- Antenna height: 0.5 m

Step 3: final measurement

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 be slowly varied by +/- 22.5° 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 is also slowly varied by +/- 25 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.

- Detector: Peak Maxhold
- Measured frequencies: in step 1 determined frequencies
- IF Bandwidth: 120 kHz
- Measuring time: 100ms
- Turntable angle range: -22.5° to +22.5° around the determined value
- Height variation range: -0.25 m to +0.25 m around the determined value

Step 4: 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 3 determined frequencies
- IF Bandwidth: 120 kHz - Measuring time: 1 s

Measurement above 1 GHz:

The following modifications apply to the measurement procedure for the frequency range above 1 GHz: The measurement distance was reduced to 1 m. The results were extrapolated by the extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements, inverse-linear-distance-squared for the power density measurements). Due to the fact that in this frequency range a double ridged wave guided horn antenna (up to 18 GHz) and a horn antenna (18–25 GHz) are used, the steps 2-4 as described before, are omitted. Step 1 was performed at one height of the receiving antenna only.

Detector: Peak, Average (simultaneously) RBW = VBW = 1 MHz; above 7 GHz 100 kHz

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 ($dB\mu V/m$)

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) / @ 3m!

30 - 88 49.5 88 - 216 54.0 216 - 960 56.9 above 960 60.0

§15.35(b)

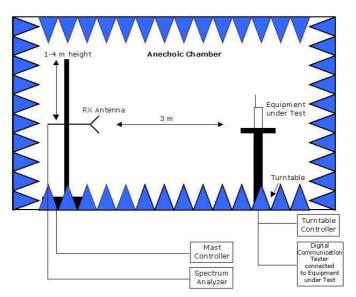
..., there is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.... Used conversion factor: Limit $(dB\mu V/m) = 20 \log (Limit (\mu V/m)/1\mu V/m)$



acc. Title 47 CFR chapter I part 15 subpart B

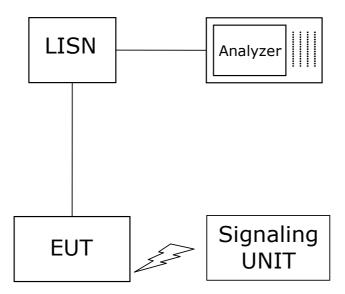
NOTE: A missing result table in the corresponding test report section means, that no final measurement was performed because no relevant frequencies (peaks) were found in the preliminary scan.

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



acc. Title 47 CFR chapter I part 15 subpart B

6 Index

1 Administrative Data	2
1.1 Project Data	2
1.2 Applicant Data	2
1.3 Test Laboratory Data	2
1.4 Signature of the Testing Responsible	2
1.5 Signature of the Accreditation Responsible	3
2 Test Object Data	3
2.1 General OUT Description	3
2.2 Detailed Description of OUT Samples	4
2.3 OUT Features	4
2.4 Setups used for Testing	4
3 Results	5
3.1 General	5
3.2 List of the Applicable Body	5
3.3 List of Test Specification	5
3.4 Summary	6
3.5 Detailed Results	7
3.5.1 15b.2 Spurious Radiated Emissions §15.109	7
4 Test Equipment Details	9
4.1 List of Used Test Equipment	9
5 Annex	14
5.1 Additional Information for Report	14
6 Index	19