Relative humidity: 53%

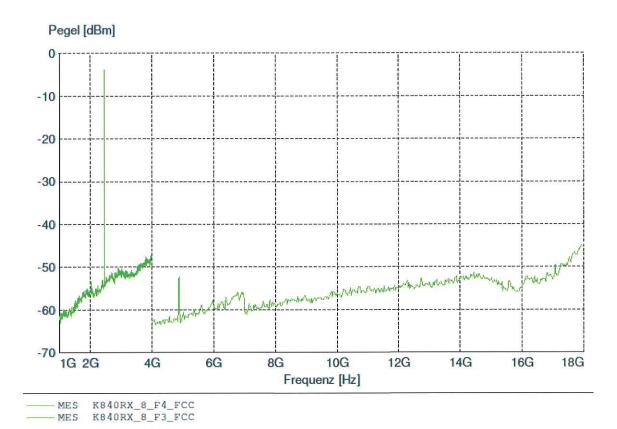


Out-of-band Emission

§ 15.247(d) A8.5

Measurement with Peak-Detector:

Frequency: 2438 MHz



Seite 1 06.08.2010 14:23

LIMIT

SUBCLAUSE 15.247(d) - A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.

At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Relative humidity: 53%

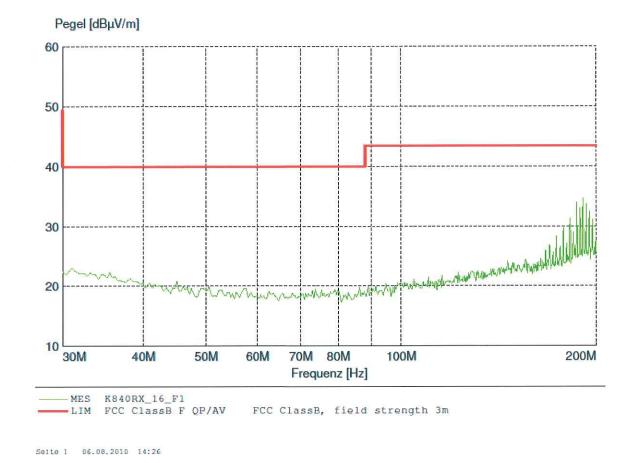


Out-of-band Emission

§ 15.247(d) A8.5

Measurement with Peak-Detector:

Frequency: 2478 MHz



LIMIT

SUBCLAUSE 15.247(d) - A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.

At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Relative humidity: 53%

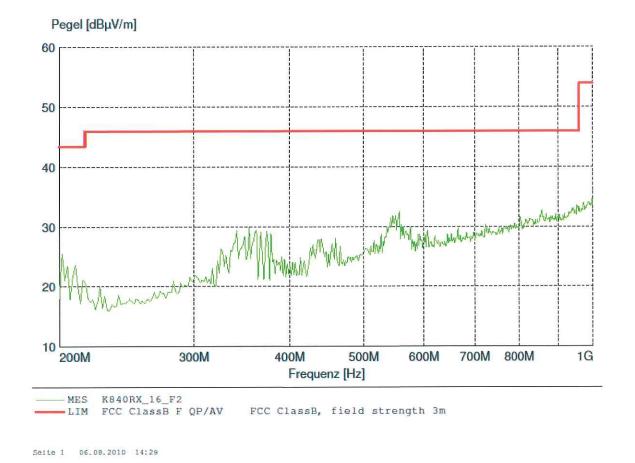


Out-of-band Emission

§ 15.247(d) A8.5

Measurement with Peak-Detector:

Frequency: 2478 MHz



LIMIT

SUBCLAUSE 15.247(d) - A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.

At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Relative humidity: 53%

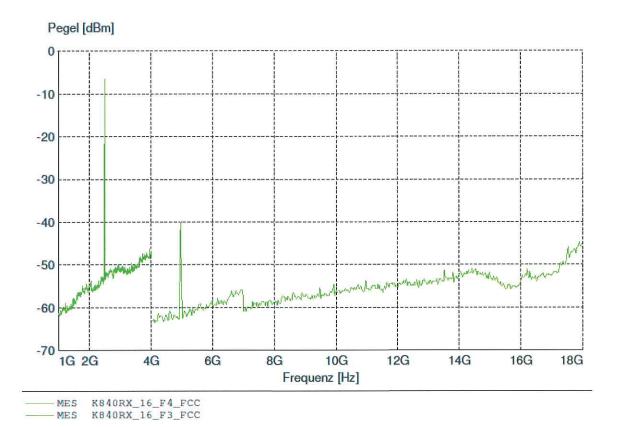


Out-of-band Emission

§ 15.247(d) A8.5

Measurement with Peak-Detector:

Frequency: 2478 MHz



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LIMIT

SUBCLAUSE 15.247(d) - A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.

At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Relative humidity: 53%

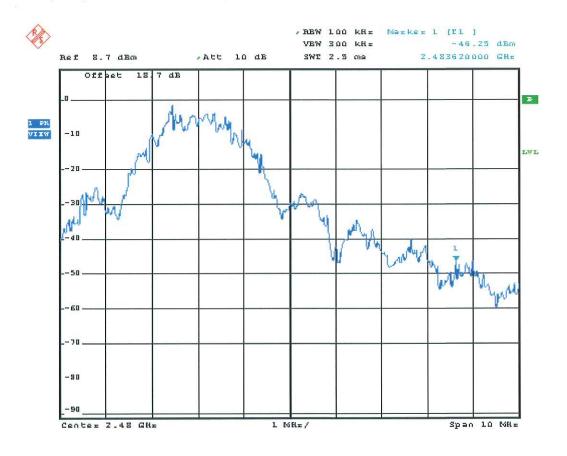


Out-of-band Emission

§ 15.247(d) A8.5

Measurement with Peak-Detector:

Frequency: 2478 MHz - Band Edge measurement



Date:

5.AUG.2010 09:43:33

LIMIT

SUBCLAUSE 15.247(d) - A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.

At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Form: FCC15.DOT/1. 1. 2002 Page 20 of 24 File: 10-129.doc/22.09.2010

Relative humidity: 53%



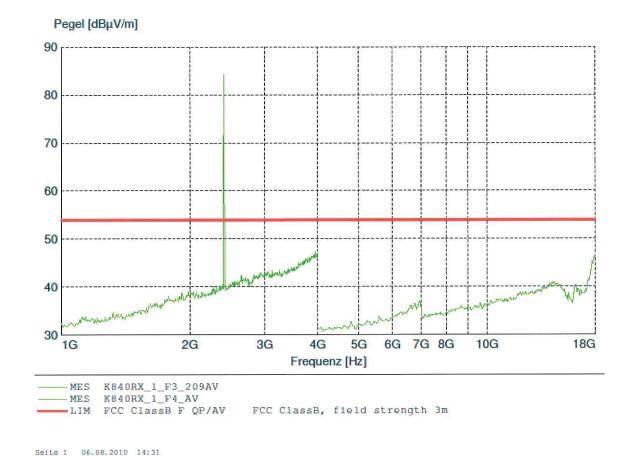
Emissions in restricted bands

§ 15.209(a)

As the limit 15.209 was checked during "Out-of-band Emission" measurements for frequencies below 1 GHz, only the frequency range above 1 GHz was checked.

Measurement with Average-Detector:

Frequency: 2403 MHz



LIMIT

SUBCLAUSE 15.209

> 1GHz	54 dBuV/m average
≥ IGHZ	34 αδμν/πι average

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Relative humidity: 53%



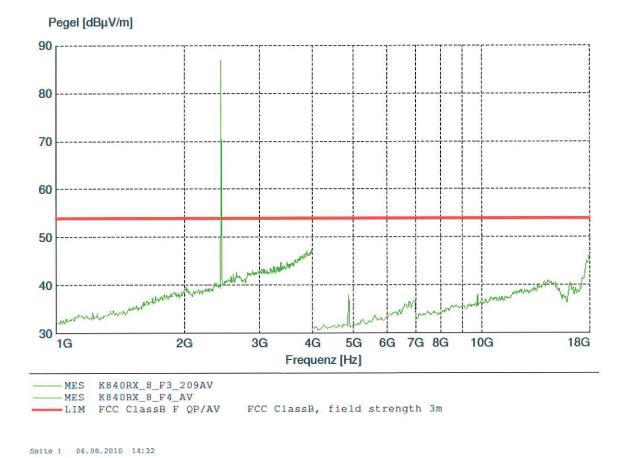
Emissions in restricted bands

§ 15.209(a)

As the limit 15.209 was checked during "Out-of-band Emission" measurements for frequencies below 1 GHz, only the frequency range above 1 GHz was checked.

Measurement with Average-Detector:

Frequency: 2438 MHz



LIMIT SUBCLAUSE 15.209

≥ 1GHz	54 dBμV/m average
<u> </u>	, ,

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Relative humidity: 53%



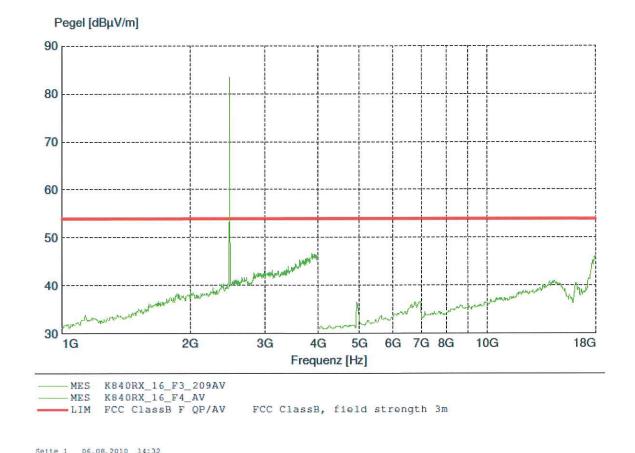
Emissions in restricted bands

§ 15.209(a)

As the limit 15.209 was checked during "Out-of-band Emission" measurements for frequencies below 1 GHz, only the frequency range above 1 GHz was checked.

Measurement with Average-Detector:

Frequency: 2478 MHz



LIMIT

SUBCLAUSE 15.209

≥ 1GHz 54 dBµV/n	average
------------------	---------

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Test Report Reference: M/FG-10/129

Ambient temperature: 27°C

Relative humidity: 53%



Maximum permissible Exposure

§ 15.247(i)

This kind of radio equipment is categorically excluded from routine environmental evaluation.

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Appendix 1 Test equipment used



Anechoic Chamber with 3m measurement distance	NT-100	Spectrumanalyzer – FSP7 9 kHz – 7 GHz	NT-200
Stripline according to ISO 11452-5	NT-108	ESVP - Test receiver 20 - 1000 MHz	NT-201
MA 240 - Antenna mast 1 - 4 m height	NT-110	ESPC - Test receiver 9 kHz - 2,5 GHz	NT-203
DS 412 - Turntable 0 - 400 ° Azimuth	NT-111	ESI26 – Test receiver 20 Hz – 26,5 GHz	NT-207
HD 100 Controller Mast+Turntable	NT-112	Digital Radio Tester CTS55	NT-208
HUF-Z2 - Bicon. Antennna 20 - 300 MHz	NT-120	Noise-gen., ITU-R 559-2 20 Hz – 20 kHz	NT-209
HUF-Z3 - Log. Per. Antenna 200 - 1000 MHz	NT-121	CMTA - Radiocommunication analyzer; 0,1 - 1000 MHz	NT-210
HFH-Z2 - Loop Antenna 9 kHz - 30 MHz	NT-122	3271 - Spectrum analyzer 100 Hz - 26,5 GHz	NT-211
HFH-Z6 - Rod Antenna 9 kHz - 30 MHz	NT-123	Radiocommunicationanalyzer Marconi 2945A	NT-212
3121C - Dipole Antenna 28 - 1000 MHz	NT-124	2855S - Communication analyzer	NT-213
3115 - Horn Antenna 1 - 18 GHz (immunity)	NT-125	Mixer M28HW 26,5 GHz - 40 GHz	NT-214
3116 - Horn Antenna 18 - 40 GHz	NT-126	Diode Detector 0,01 GHz - 26,5 GHz	NT-215
SAS-200/543 - Bicon. Antenna 20 MHz - 300 MHz	NT-127	RubiSource T&M Timing reference	NT-216
AT-1080 - Log. Per. Antenna 80 - 1000 MHz	NT-128	Radiocommunicationanalyzer SWR 1180 MD	NT-217
HK-116 - bicon. Antenna 20 MHz - 300 MHz	NT-129	Mixer M19HWD 40 GHz – 60 GHz	NT-218
HK-116 - bicon. Antenna 20 MHz - 300 MHz	NT-130	Mixer M12HWD 60 GHz – 90 GHz	NT-219
3146 - Log. Per. Antenna 200 – 1000 MHz	NT-131	TDS - 540 DSO Digital scope	NT-220
Loop Antenna H-Field	NT-132	DSO9104 Digital scope	NT-220/1
Horn Antenna 500 MHz - 2900 MHz	NT-133	TPS 2014 Digital scope	NT-222
Horn Antenna 500 MHz - 6000 MHz	NT-133/1	Artificial Ear according to IEC 60318	NT-224
Log. per. Antenna 800 MHz - 2500 MHz	NT-134	1 kHz Sound calibrator	NT-225
Log. per. Antenna 800 MHz - 2500 MHz	NT-135	B10 - Harmonics and flicker analyzer	NT-232
BiConiLog Antenna 26 MHz – 2000 MHz	NT-137	SRM-3000 Spectrumanalyzer	NT-233
Conical Dipol Antenna PCD8250	NT-138	E-field probe SRM 75 MHz – 3 GHz	NT-234
HF 906 - Horn Antenna 1 - 18 GHz (emission)	NT-139	Hall-Teslameter ETM-1	NT-241
HZ-1 Antenna tripod	NT-150	EFA-3 H-field- / E-field probe	NT-243
BN 1500 Antenna tripod	NT-151	E-field measuring instrument EMR-200; 100 kHz – 3 GHz	NT-244
Ant. tripod for EN61000-4-3 Model TP1000A	NT-156	E-field probe 100 kHz – 3 GHz	NT-245
Power quality analyzer Fluke 1760 (complete set)	NT-160 - NT-172	Magneticfield-Sensor 300 kHz – 30 MHz	NT-246

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Appendix 1 (continued) Test equipment used



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E-field probe 3 MHz – 18 GHz	NT-247		TRANSIENT 1000 Immunity test system	NT-325
Magneticfield-Sensor 27 MHz – 1 GHz	NT-248		VCS 500-M6 Surge-Generator	NT-326
ELT-400 1 Hz – 400 kHz	NT-249		BTA-250 - RF-Amplifier 9 kHz - 220 MHz / 250 W	NT-330
MDS 21 - Absorbing clamp 30 - 1000 MHz	NT-250		T82-50 RF-Amplifier 2 GHz – 8 GHz	NT-331
FCC-203I EM Injection clamp	NT-251		500W1000M7 - RF-Amplifier 80 - 1000 MHz / 500 W	NT-332
FCC-203I-DCN Ferrite decoupling network	NT-252		AS0102-65R - RF-Amplifier 1 GHz - 2 GHz	NT-333
PR50 Current Probe	NT-253		APA01 – RF-Amplifier 0,5 GHz – 2,5 GHz	NT-334
PR630 Current Probe	NT-254		Preamplifier 1 GHz - 4 GHz	NT-335
Fluke 87 V True RMS Multimeter	NT-260		Preamplifier for GPS MKU 152 A	NT-336
Model 2000 Digital Multimeter	NT-261		Preamplifier 100 MHz – 23 GHz	NT-337
Fluke 87 V Digital Multimeter	NT-262/1		DC Block 10 MHz – 18 GHz Model 8048	NT-338
ESH2-Z5-U1 Artificial mains network 4x25A	NT-300		2-97201 Electronic load	NT-341
ESH3-Z5-U1 Artificial mains network 2x10A	NT-301		TSX3510P - Power supply 0-30 V / 0 - 10 A	NT-344
ESH3-Z6-U1 Artificial mains network 1x100A	NT-302		TSX3510P - Power supply 0-30 V / 0 - 10 A	NT-345
ESH3-Z4 T-Artificial network	NT-303		VDS 200 Mobil-impuls-generator	NT-350
PHE 4500/B Power amplifier	NT-304		LD 200 Mobil-impuls-generator	NT-351
EZ10 T-Artificial Network	NT-305		MPG 200 Mobil-Impuls-Generators	NT-352
ENY22 Artificial Network	NT-308	П	EFT 200 Mobil-impuls-generator	NT-353
ENY41 Artificial Network	NT-309		AN 200 S1 Artificial Network	NT-354
SMG - Signal generator 0,1 - 1000 MHz	NT-310		FP-EFT 32M 3 ph. Coupling filter (Burst)	NT-400/1
SMA100A - Signal generator 9 kHz - 6 GHz	NT-310/1		PHE 4500 - Mains impedance network	NT-401
PM 5518 TXVPS Video generator	NT-311		IP 6.2 Coupling filter for data lines (Surge)	NT-403
RefRad Reference generator	NT-312		TK 9421 High Power Volt. Probe 150 kHz - 30 MHz	NT-409
SMP 02 Signal generator 10 MHz - 20 GHz	NT-313		ESH2-Z3 - Probe 9 kHz - 30 MHz	NT-410
40 MHz Arbitrary Generator TGA1241	NT-315		IP 4 - Capacitive clamp (Burst)	NT-411
Artificial mains network NSLK 8127-PLC	NT-316		Highpass-Filter 100 MHz – 3 GHz	NT-412
PEFT - Burst generator up to 4 kV	NT-320		Highpass-Filter 600 MHz – 4 GHz	NT-413
ESD 30 System up to 25 kV	NT-321		Highpass-Filter 1250 MHz – 4 GHz	NT-414
PSURGE 4.1 Surge generator	NT-324		Highpass-Filter 1800 MHz – 16 GHz	NT-415

Appendix 1 (continued) Test equipment used



Highpass-Filter 3500 MHz – 18 GHz	NT-416	FCC-801-S25 Coupling decoupling network	NT-462
RF-Attenuator 10 dB DC – 18 GHz / 50 W	NT-417	FCC-801-T4 Coupling decoupling network	NT-463
RF-Attenuator 6 dB DC – 18 GHz / 50 W	NT-418	FCC-801-C1 Coupling decoupling network	NT-464
RF-Attenuator 3 dB DC – 18 GHz / 50 W	NT-419	F-16A - Current probe 1kHz - 70MHz	NT-465
RF-Attenuator 20 dB DC - 1000 MHz / 25 W	NT-421	95242-1 – Current probe 10 MHz – 400 MHz	NT-468
RF-Attenuator 30 dB DC - 1000 MHz / 1 W	NT-423	94106-1L-1 – Current probe 20 Hz – 450 MHz	NT-471
RF-Attenuator 30 dB	NT-424	GA 1240 Power amplifier according to EN 61000-4-16	NT-480
RF-Attenuator 6 dB DC - 1000 MHz / 1 W	NT-425	Coupling networks according to EN 61000-4-16	NT-481 - NT-483
RF-Attenuator 6 dB DC - 1000 MHz / 1 W	NT-426	PC P4 3 GHz Test computer	NT-500
RF-Attenuator 6 dB	NT-428	PC P4 1700 MHz Notebook	NT-505
RF-Attenuator 0 dB - 81 dB	NT-429	PC Intel Centrino 1600 MHz Notebook	NT-506
WRU 27 - Band blocking 27 MHz	NT-430	Monitoring camera with Monitor	NT-511
WHJ450C9 AA - High pass 450 MHz	NT-431	ES-K1 Version 1.71 SP2 Test software	NT-520
WHJ250C9 AA - High pass 250 MHz	NT-432	SRM-TS Version 1.3 software for SRM-3000	NT-522
RF-Load 150 W	NT-433	SPS-PHE Test software V2.5 voltage fluctuations/harmonics	NT-525
Impedance transducer 1:4; 1:9; 1:16	NT-435	SPS-EM Test software V4.0 EN61000-4-11	NT-527
RF-Attenuator DC – 18 GHz 6 dB	NT-436	Noise power test apparatus according to EN 55014	NT-530
RF-Attenuator DC – 18 GHz 6 dB	NT-437	Vertical coupling plane (ESD)	NT-531
RF-Attenuator DC – 18 GHz 10 dB	NT-438	Test cable #4 for EN 61000-4-6	NT-553
RF-Attenuator DC – 18 GHz 20 dB	NT-439	Test cable #3 for conducted emission	NT-554
I+P 7780 Directional coupler 100 - 2000 MHz	NT-440	Test cable #5 ESD-cable (2x470k)	NT-555
ESH3-Z2 - Pulse limiter 9 kHz - 30 MHz	NT-441	Test cable #6 ESD-cable (2x470k)	NT-556
Power Divider 6 dB/1 W/50 Ohm	NT-443	Test cable #8 Sucoflex 104EA	NT-559
Directional coupler 0,1 MHz – 70 MHz	NT-444	Test cable #9 (for outdoor measurements)	NT-580
Directional coupler 0,1 MHz – 70 MHz	NT-445	Test cable #10 (for outdoor measurements)	NT-581
Tube imitations according to EN 55015	NT-450	Test cable #13 Sucoflex 104PE	NT-584
FCC-801-M3-16A Coupling decoupling network	NT-458	Test cable #21 for SRM-3000	NT-592
FCC-801-M2-50A Coupling decoupling network	NT-459	Shield chamber	NT-600
FCC-801-M5-25 Coupling decoupling network	NT-460	Climatic chamber	M-1200
FCC-801-AF10 Coupling decoupling network	NT-461	Control and simulation equipment for EUT	

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