



REPORT

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Date
2010-06-29

Reference
FX009340-6

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Rev.1: 2010-08-16

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Permissible change measurements on GSM Base station Transceiver unit with FCC ID: B5KAKRC1311004-2 and IC: 287V-AGS10042 (8 appendices)

Rev.1, 2010-08-16: The RBS cabinet product name was corrected to RBS 2206 V2 in appendices 1 and 7.

Test object

Transceiver Unit dTRU-19 Edge, product KRC 131 1004/2, revision R1C, SN AE5000JTGT.

See appendix 1 for general information. Appendix 7 lists hardware and software. Appendix 8 shows photos of the test object.

Summary


Standard	Compliant	Appendix	Remarks
FCC CFR 47 / IC RSS-133 Issue 5			
2.1046 / RSS-133 6.4 RF Power output	Yes	2	-
2.1049 / RSS-133 6.5 Occupied bandwidth	Yes	3	-
2.1051 / RSS-133 6.5 Band Edge	Yes	4	Note 1
2.1051 / RSS-133 6.5 Spurious emission at antenna port	Yes	5	-
2.1053 / RSS-133 6.5 Field strength of spurious radiation	Yes	6	-

Note 1: The channel adjacent to the lower and higher band-edge must be excluded. The lowest usable channel is 513 (1930.4 MHz), the highest usable channel is 809 (1989.6 MHz).

Note 2: Above RSS-133 items are given as cross-reference only. Measurements were performed according to ANSI procedures referenced by FCC and covered by SP's accreditation.

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FCC ID: B5KAKRC1311004-2
IC: 287V-AGS10042

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Appendix 1

Description - Equipment Under Test (EUT)

Equipment: GSM Base station transceiver unit (dTRU) 1900 MHz

TX frequency range: 1930.4 - 1989.6 MHz

Modulations: GMSK, 8PSK, 16QAM and 32QAM

Nominal maximum output power, RMS value in [dBm]	Modulation			
	GMSK	8PSK	16QAM	32QAM
In uncombined (UC) mode	44.8	41.5	40.1	39.7
In combined (HC) mode	41.5	38.2	36.8	36.4
In TCC mode	47.5	44.2	42.8	42.4

Supply voltage to test object 27.2 V DC
supplied internally from backplane in the RBS 2206 V2.
The RBS backplane was powered by the PSU output.
The PSU was supplied from the AC mains.

Purpose of test

The purpose of this test is to justify a Class II permissive change of the test object to include the use of 16QAM and 32QAM modulation. This report verifies maintained performance characteristics of affected items according FCC CFR47 by re-testing the updated equipment with GMSK, 16QAM and 32QAM modulation.

Summary of results

Measurement results are near identical for all modulations, apart from RMS output power, where GMSK modulation results in the highest RMS output power. GMSK modulation can be considered a worst case set-up.

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Appendix 1

Tested configuration

All measurements were performed with the test object installed in a RBS 2206 V2 rack. The hardware lists for radiated and conducted measurements are shown in appendix 7. The test object was activated at maximum power and configured for TCC mode, resulting in the highest output power achievable. Random data was transmitted in all time slots with the various modulations being tested, one at a time. This set-up was considered a worst-case configuration.

Frequencies used

ARFCN	Frequency		Comment
513	1930.4	MHz	Lowest usable TX frequency, conducted measurements only
661	1960.0	MHz	TX band center, conducted & radiated measurements
809	1989.6	MHz	Highest usable TX frequency, conducted measurements only

Conducted measurements

Conducted measurements were done at the output connector of CDU-G 19, product number BFL 119 153/1, revision R5F with serial number A40003KLA1.

Radiated measurements

During radiated emission measurements the CDU-G 19 output TX/(RX) 0 was via a 50 ohm attenuator connected to a spectrum analyser to monitor the transmitted signal. For the scope of this test it was deemed sufficient to measure and compare radiated spurious emission at the TX band center frequency for GMSK, 16QAM and 32QAM modulation. GMSK modulation with approximately 3.5 dB higher RMS output power than 8PSK modulation was chosen as worst case reference modulation to compare the new 16QAM and 32QAM modulations with.

Manufacturer's representative

Hua Yang, Ericsson (China) Communications Company Ltd

References

Measurements were done according to relevant parts of the following standards:
ANSI ANSI/TIA/EIA-603-C-2004
ANSI/TIA/EIA 136-280-D-2002
RSS-133, Issue 5 (February 2009)

Reservation

The test results in this report apply only to the particular Equipment Under Test (EUT) as declared in the report.

Delivery of test object

The test object was delivered: 2010-05-07

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Appendix 1

Test equipment

Measurement equipment	Calibration Due	SP number
Anechoic chamber, Hertz	2010-10	15:116
Boonton RF Peak power meter/analyzer	2010-09	503 144
Boonton Power sensor 56518-S/4	2012-02	503 146
Rohde & Schwarz FSQ40	2010-07	504 143
Rohde & Schwarz FSIQ40	2010-10	503 738
Rohde & Schwarz ESI40	2010-07	503 125
Rohde & Schwarz Vector Network Analyser	2010-07	503 687
Chase bilog antenna CBL 6121A	2011-10	502 460
Schaffner Reference Dipole BSRD6500	2012-03	502 181
EMCO Horn Antenna 3115	2011-01	502 175
EMCO Horn Antenna 3115	2011-02	501 548
Flann Std gain horn 20240-20	-	503 674
MITEQ Low Noise Amplifier	2010-06	503 277
Attenuator 40 dB	2010-06	504 159
Attenuator 30 dB	2010-08	900 229
Wainright high pass filter	2011-03	504 200
RLC Electronics HP-filter F-16149	2010-06	503 739
Multimeter Fluke 87	2011-01	502 190
Testo 615 temperature and humidity meter	2012-03	503 498

Uncertainties

Measurement and test instrument uncertainties are described in the quality assurance documentation "SP-QD 10885". The uncertainties are calculated with a coverage factor k=2 (95% level of confidence).

Test engineers

Fredrik Isaksson and Reinhold Reul

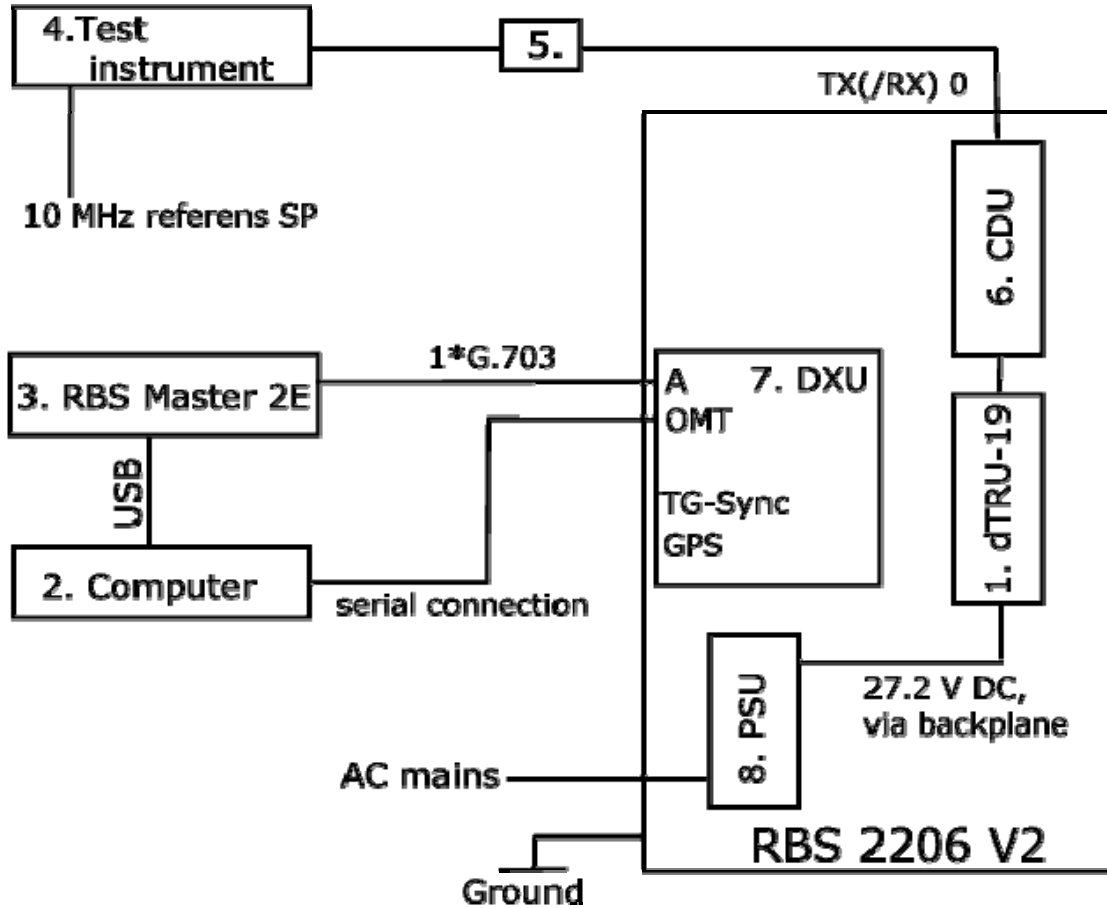
Test witnesses

Bo Zhao and Kevin Sun, Ericsson (China) Communications Company Ltd.

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Appendix 1

Test set-up, conducted measurements



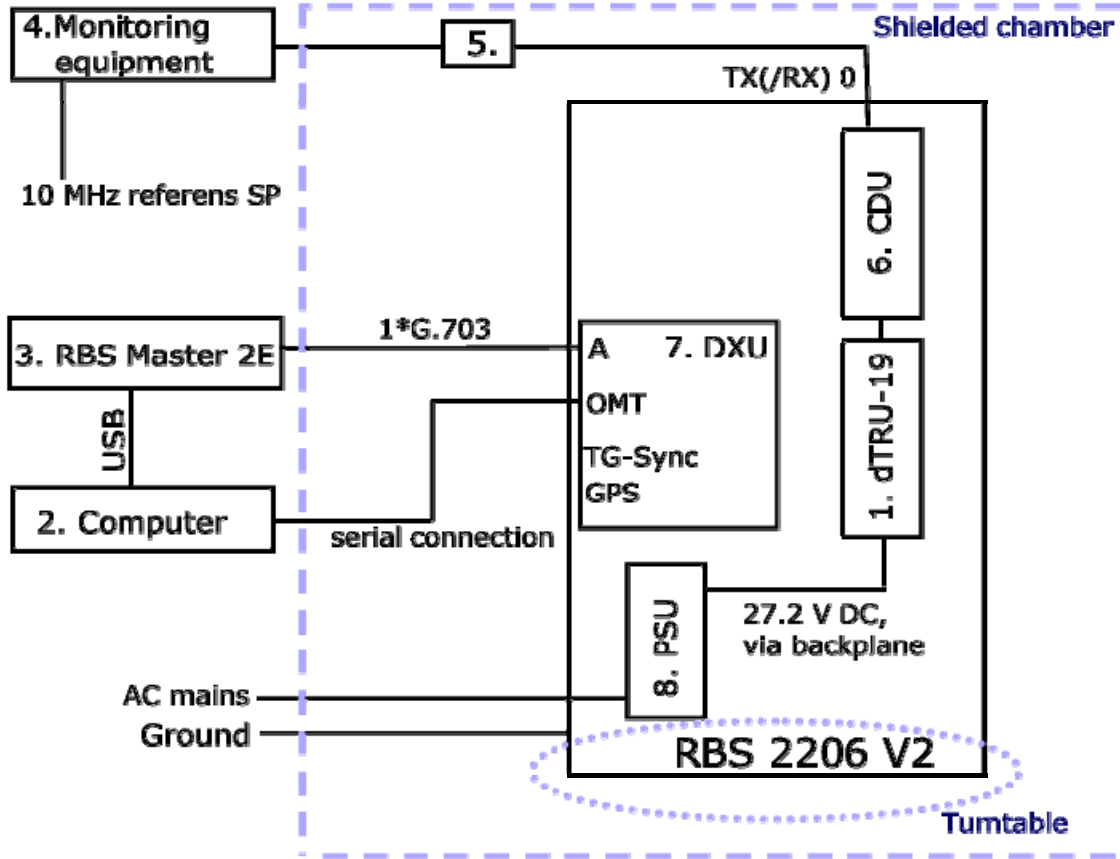
Test object

1. Transceiver Unit dTRU-19 Edge, product number KRC 131 1004/2, revision R1C, SN AE5000JTGT with FCC ID: B5KAKRC1311004-2 and IC: 287V-AGS10042

Functional test equipment

2. HP laptop computer model Compaq NC6400, SN CND70310FD With software RBS Master2 control software, revision R7D02
3. Ericsson RBS Master 2E hardware, product number LBY 107 1007/3, revision R1C BAMS 1000735209
4. Measurement equipment specified in respective appendix The modulation type was verified using client-supplied Agilent MXA Signal Analyser model N9020A 20 Hz – 26.5 GHz, BAMS 1000737857
5. Attenuator / filter listed under test equipment in respective appendix
6. CDU G 19, product BFL 119 153/1, revision R5F, serial number A40003KLA1
7. DXU according RBS hardware list in appendix 7
8. PSU according RBS hardware list in appendix 7

Test set-up, radiated emission



Test object

1. Transceiver Unit dTRU-19 Edge, product number KRC 131 1004/2, revision R1C, SN AE5000JTGT with FCC ID: B5KAKRC1311004-2 and IC: 287V-AGS10042

Functional test equipment

2. HP laptop computer model Compaq NC6400 SN CND72717JP With software RBS Master2 control software, revision R7D02
3. Ericsson RBS Master 2E hardware, product number LBY 107 1007/3, revision R1C, BAMS 1000735211
4. Rohde & Schwarz FSIQ40 for signal monitoring, SP 503738
5. Attenuator 30 dB, SP 900229
6. CDU G 19, product BFL 119 153/1, revision R5F, serial number A40003KLA1
7. DXU according RBS hardware list in appendix 7
8. PSU according RBS hardware list in appendix 7



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Appendix 1

Test object dTRU-19 connections

Interface

27.2 V DC via PSU & RBS backplane
TX 1 + TX 2, interconnection to CDU-G in TCC mode
Interconnection TX 1 + HC 1 in TCC mode
Interconnection TX 2 + HC 2 in TCC mode
RX 1 to CXU10
RX 2 to CXU10
RX 3 not connected
RX 4 not connected

Type of port

DC power
RF/Antenna
RF interconnect in
TCC mode
RF/Antenna
RF/Antenna
RF/Antenna
RF/Antenna

External RBS rack connections

Interface

AC mains
Used CDU TX(/RX) 0, used for measurement / monitoring
Used CDU TX(/RX) 1 and other CDU's outputs were unconnected
G.703, shielded multi-wire with RJ-45connector, mode E1
External alarm not connected
ESB not connected
GPS not connected
OMT interface (only configuration, not connected in normal use)

Type of port:

AC power
RF/Antenna
RF/Antenna
Telecom
Signal
Signal
Signal
O/M



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Appendix 2

RF Power output measurements according to CFR 47 2.1046 / IC RSS-133 6.4

Date 2010-05-20	Temperature 22 °C ± 3 °C	Humidity 60 % ± 5 %
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Test set-up and procedure

Measurements were made at the CDU-G output connector. The output was connected to a Peak power analyser via a 50 ohm attenuator. The transmitters were modulated with pseudorandom data activated in all time slots during the measurements. The test object was configured for maximum nominal output power, using TCC mode configuration and RBS Master2E control setting “49”.

Measurement equipment	SP number
Boonton RF Peak power meter/analyzer	503 144
Boonton Power sensor 56518-S/4	503 146
Multimeter Fluke 87	502 190
Testo 615 temperature and humidity meter	503 498

Measurement uncertainty: 0.7 dB

Results

The measurement was performed at ARFCN 661 (1960.0 MHz).

Test conditions Modulation		Transmitter power (dBm)		
		Peak / RMS		
		GMSK	16QAM	32QAM
T _{nom} 22 °C	V _{nom} 27.2 V DC	47.8 / 46.9	47.9 / 42.9	47.7 / 42.1

Limits

According to CFR § 24 there are no conducted limits at the antenna connector.

§ 24.232: The peak-to-average (PAR) ratio shall not exceed 13 dB. Base stations with an emission bandwidth of 1 MHz or less are limited to 1640 watts equivalent isotropically radiated power (EIRP).

RSS-133: Base station transmitters operating within the frequency range 1930 – 1995 MHz shall not exceed 100 W output power. The peak-to-average (PAR) ratio shall not exceed 13 dB. 1640 W EIRP shall not be exceeded (according SRSP-510).

Complies?	Yes
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Appendix 3

Occupied bandwidth measurements according to 47CFR 2.1049 / IC RSS-133 6.5

Date 2010-05-20	Temperature 22 °C ± 3 °C	Humidity 60 % ± 5 %
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Test set-up and procedure

The measurements were made per definition in §24.238. Measurements were made at the output connector TX (/RX) 0 of CDU-G, which was connected to a spectrum analyser with the RMS detector activated. The spectrum analyser was connected to an external 10 MHz reference standard during the measurements. The transmitters were modulated with pseudorandom data activated in all time slots during the measurements. The test object was configured for maximum nominal output power, using TCC mode configuration and RBS Master2E control setting “49”.

Measurement equipment	SP number
Rohde & Schwarz FSQ40	504 143
Attenuator	504 159
Testo 615 temperature and humidity meter	503 498

Measurement uncertainty: 3.7 dB, 1.33 kHz

Results

The results are shown in appendix 3.1

The measurement was performed at ARFCN 661 (1960.0 MHz).

	Modulation	OBW	
Diagram 1:	GMSK	240.7	kHz
Diagram 2:	16QAM	240.0	kHz
Diagram 3:	32QAM	241.3	kHz

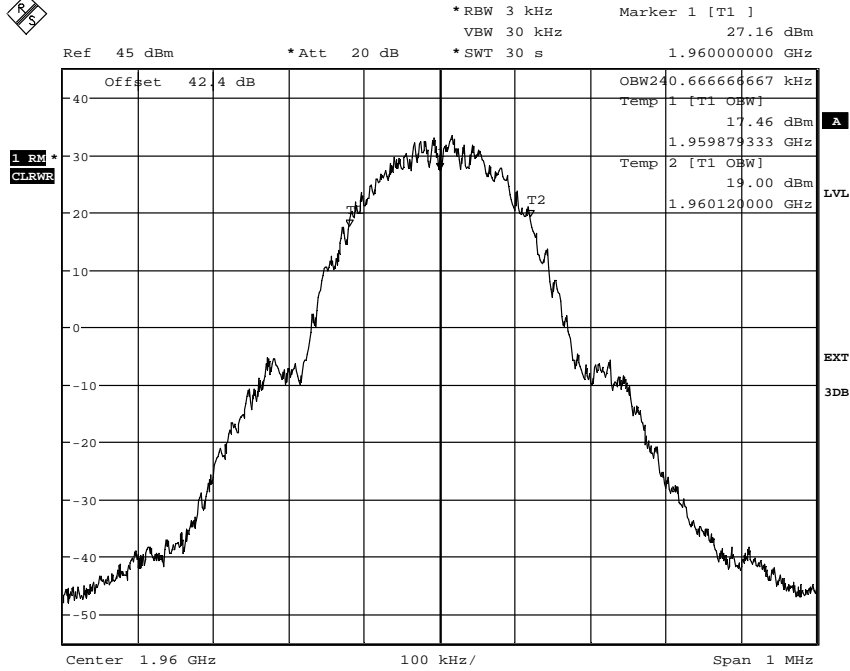
Complies?	Yes
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FCC ID: B5KAKRC1311004-2
IC: 287V-AGS10042

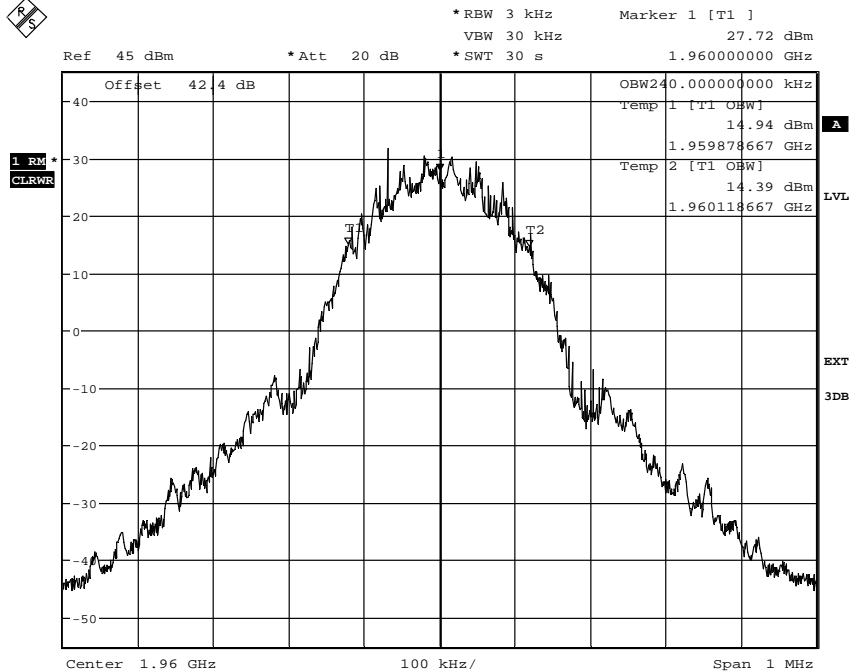
Appendix 3.1

Diagram 1



Date: 20.MAY.2010 15:10:19

Diagram 2



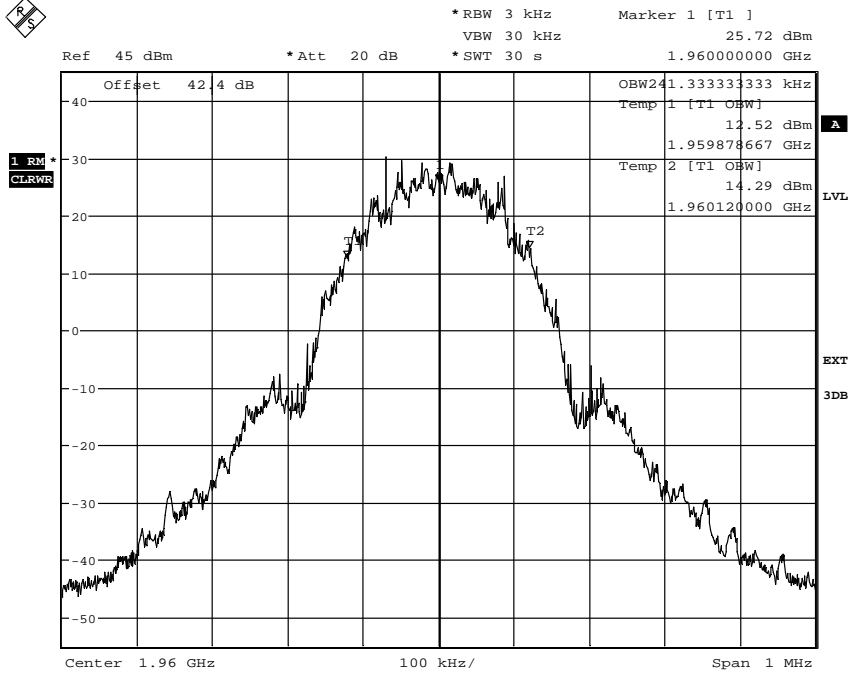
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FCC ID: B5KAKRC1311004-2
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Appendix 3.1

Diagram 3



Date: 20.MAY.2010 15:29:34



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Appendix 4

Band edge measurements according to 47CFR 2.1051 / IC RSS-133 6.5

Date 2010-05-20	Temperature 22 °C ± 3 °C	Humidity 60 % ± 5 %
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Test set-up and procedure

The measurements were made per definition in §24.238. The measurements were made at the CDU-G output connector TX/(RX) 0. The output was connected to a spectrum analyzer with the RMS detector activated. The spectrum analyzer was connected to an external 10 MHz reference standard during the measurements. The transmitters were modulated with pseudorandom data activated in all time slots during the measurements. The test object was configured for maximum nominal output power, using TCC mode configuration and RBS Master2E control setting “49”.

FCC rules specify a RBW of 1 MHz for emission measurement >1 MHz away from the band edges. For the measurement close to the band edges a RBW of 3 kHz was used, the limit line was aligned to the reduced RBW by -25.2 dB (10*log(3/1000)) to -38.2 dBm for frequencies >1 MHz away from the band edges when measuring with 3 kHz RBW. Beyond the first MHz off the band edges a RBW of 50 kHz was used and the limit line was aligned by -13 dB (10*log(50/1000)) to -26 dBm.

Measurement equipment	SP number
Rohde & Schwarz FSQ40	504 143
Attenuator	504 159
Testo 615 temperature and humidity meter	503 498

Measurement uncertainty: 3.7 dB

Results

The results are shown in appendix 4.1

- Diagram 1 16QAM, Ch 513 (1930.4 MHz)
- Diagram 2 16QAM, Ch 809 (1989.6 MHz)
- Diagram 3 32QAM, Ch 513 (1930.4 MHz)
- Diagram 4 32QAM, Ch 809 (1989.6 MHz)

Remark

The channel adjacent to the lower and higher band-edge must be excluded. The lowest usable channel is 513 (1930.4 MHz), the highest usable channel is 809 (1989.6 MHz).

Limits

The power of any emission outside the frequency band shall be attenuated below the transmitter power (P) by at least 43 + 10 log P dB.

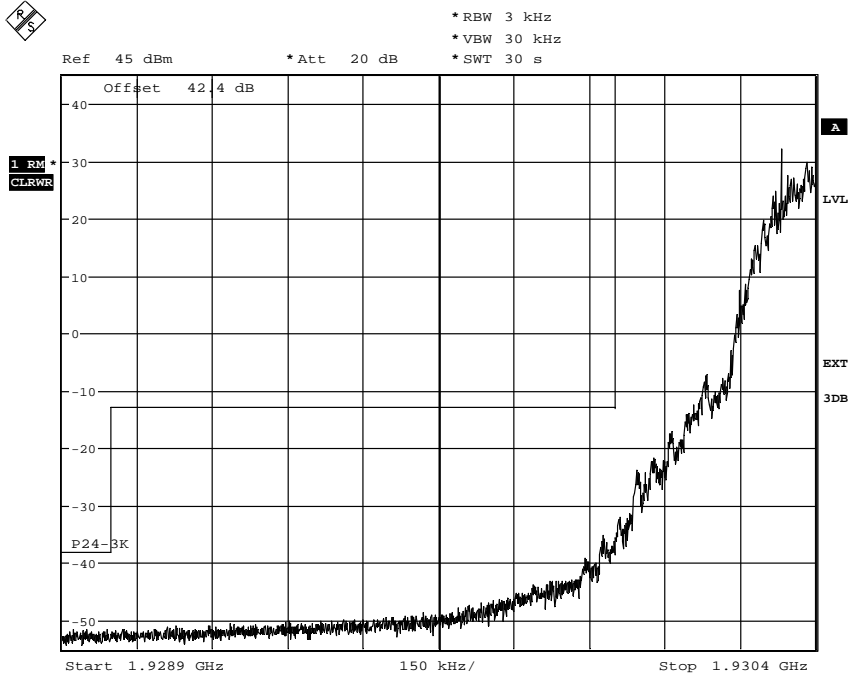
Complies?	Yes
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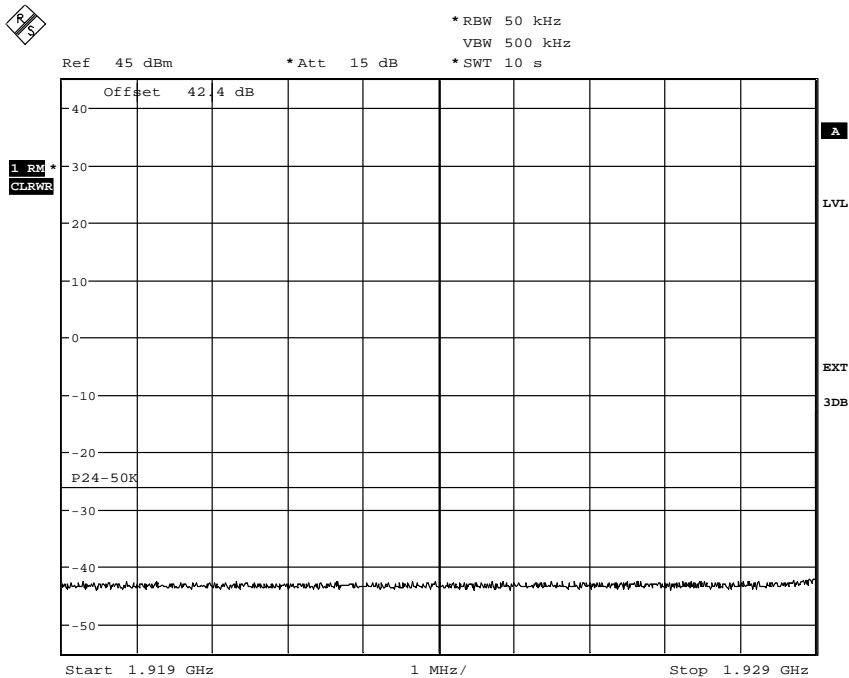
FCC ID: B5KAKRC1311004-2
IC: 287V-AGS10042

Appendix 4.1

Diagram 1



Date: 20.MAY.2010 15:38:38

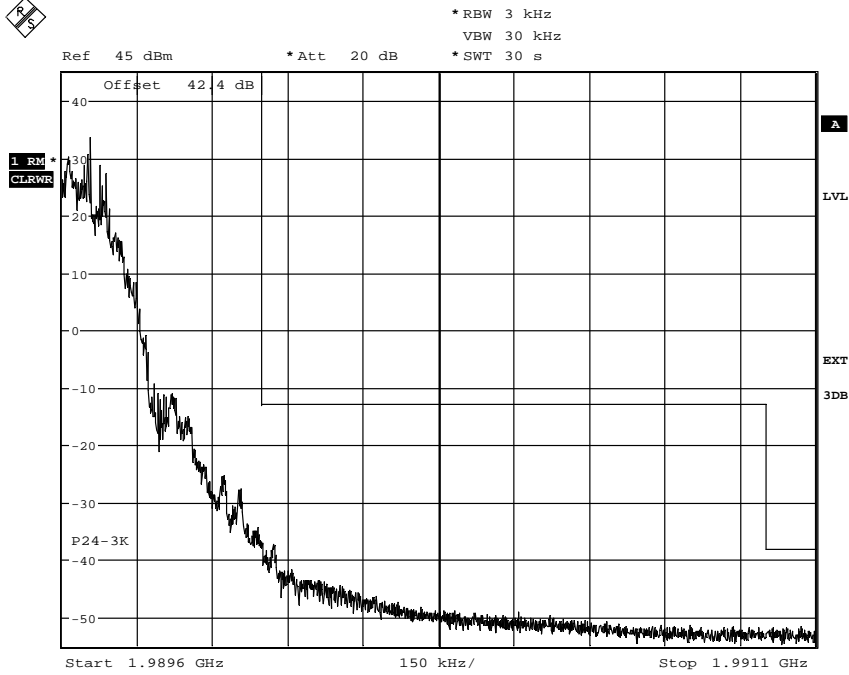


Date: 20.MAY.2010 15:39:52

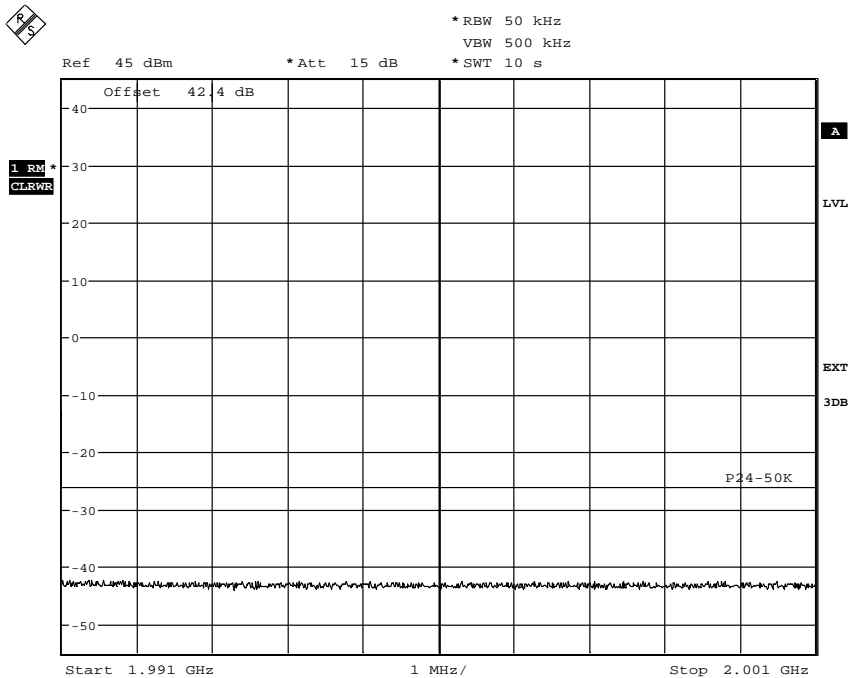
FCC ID: B5KAKRC1311004-2
IC: 287V-AGS10042

Appendix 4.1

Diagram 2



Date: 20.MAY.2010 15:47:46



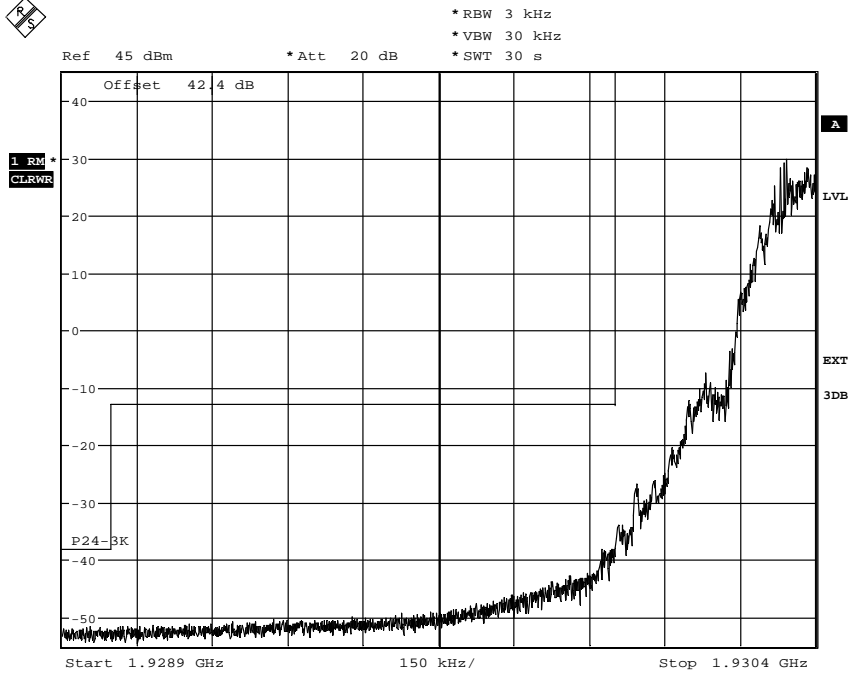
Date: 20.MAY.2010 15:49:05



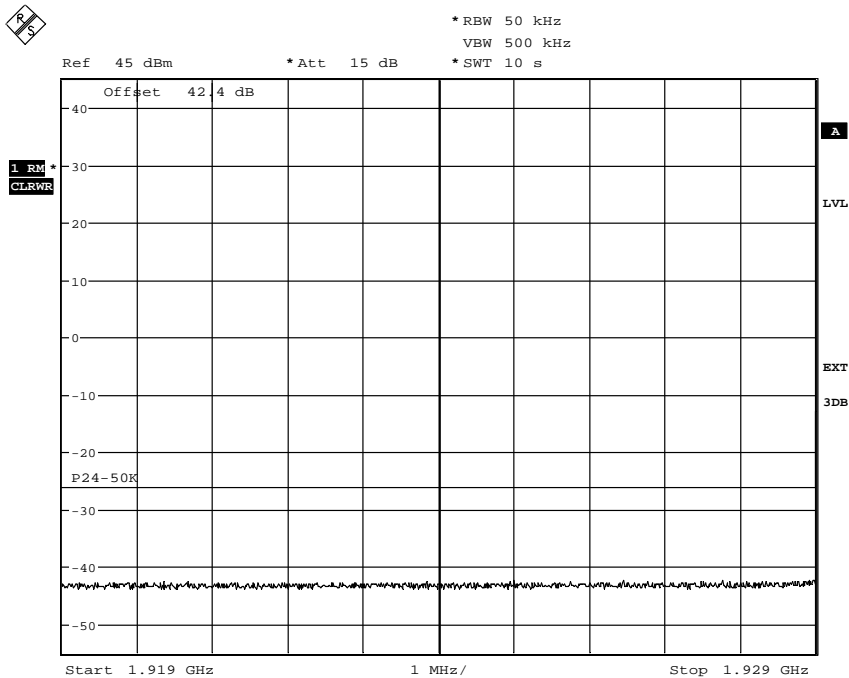
FCC ID: B5KAKRC1311004-2
IC: 287V-AGS10042

Appendix 4.1

Diagram 3



Date: 20.MAY.2010 15:43:01



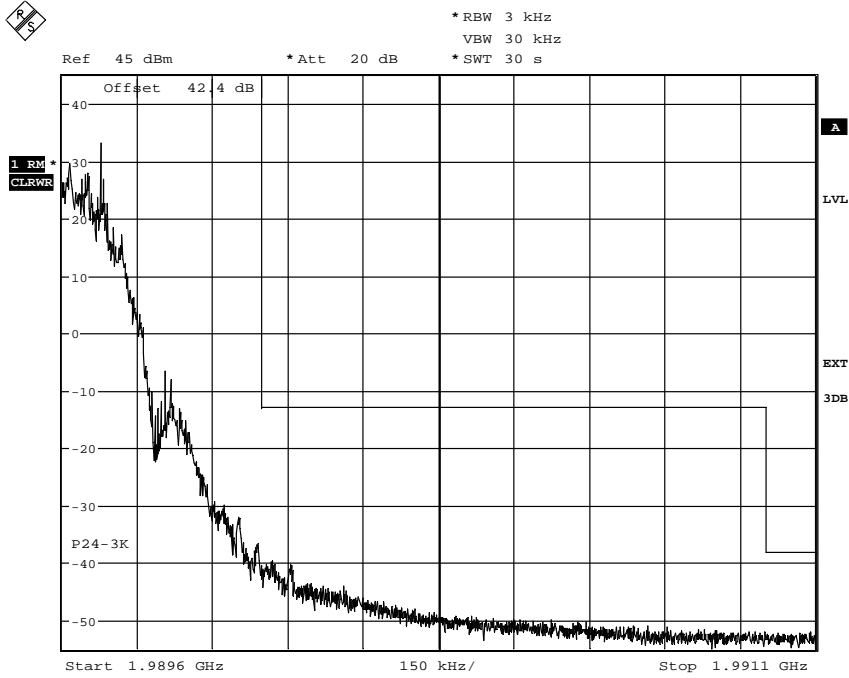
Date: 20.MAY.2010 15:43:55



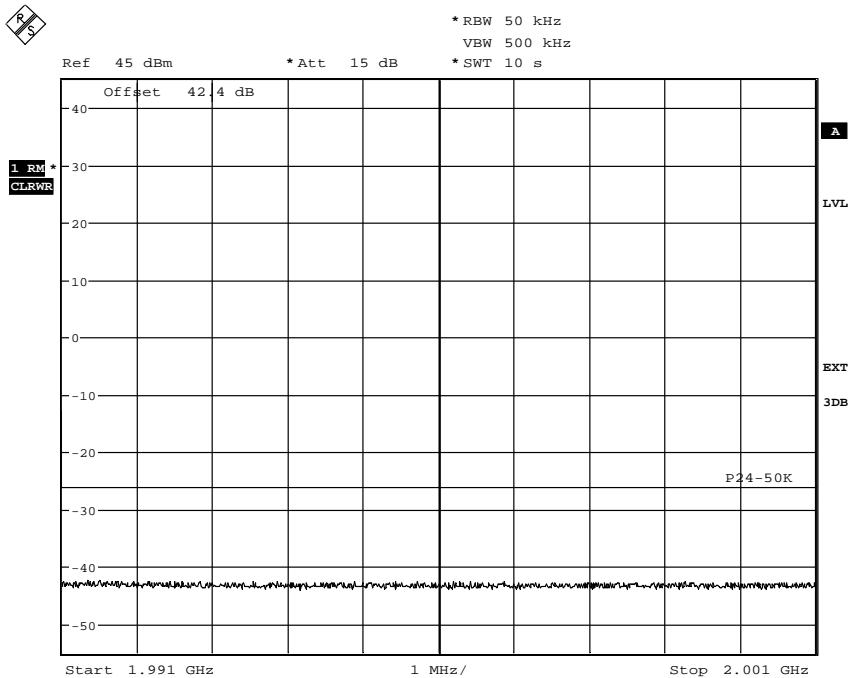
FCC ID: B5KAKRC1311004-2
IC: 287V-AGS10042

Appendix 4.1

Diagram 4



Date: 20.MAY.2010 15:54:26



Date: 20.MAY.2010 15:55:19



FCC ID: B5KAKRC1311004-2
IC: 287V-AGS10042

Appendix 5

Conducted spurious emission measurements according to 47CFR 2.1051 / IC RSS-133 6.5

Date 2010-05-20	Temperature 22 °C ± 3 °C	Humidity 60 % ± 5 %
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Test set-up and procedure

The measurements were made per definition in §24.238. Measurements were made at CDU-G output connector. The output was connected to a spectrum analyser. A pre-measurement was performed with the PEAK detector activated. Emission above the limit with the PEAK detector is measured with the RMS detector activated. The spectrum analyser was connected to an external 10 MHz reference standard during the measurements. The transmitters were modulated with pseudorandom data activated in all time slots during the measurements. The test object was configured for maximum nominal output power.

Measurement equipment	SP number
Rohde & Schwarz FSQ	504 143
Attenuator	504 159
High pass filter	504 200
Testo 615 temperature and humidity meter	503 498

Measurement uncertainty: 3.7 dB

Results

The results are shown in appendix 5.1

Configuration: TCC mode, RBS master 2E setting 49, TX ARFCN 661 (1960.0 MHz)

- Diagram 1: GMSK, 9 KHz – 3 GHz
- Diagram 2: GMSK, 3 GHz – 20 GHz
- Diagram 3: 16QAM, 9 KHz – 3 GHz
- Diagram 4: 16QAM, 3 GHz – 20 GHz
- Diagram 5: 32QAM, 9 KHz – 3 GHz
- Diagram 6: 32QAM, 3 GHz – 20 GHz

Remarks

The emission at 9 kHz on some plots was not generated by the test object. A complementary measurement with a smaller RBW showed that it was related to the LO feed-through.

Limits

The power of any emission outside the frequency band shall be attenuated below the transmitter power (P) by at least 43 + 10 log P dB.

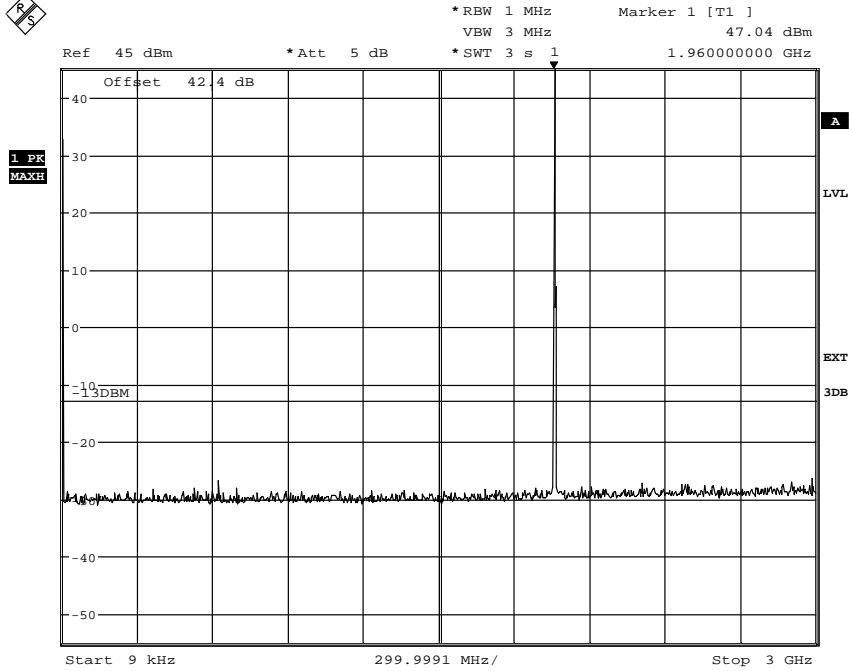
Complies?	Yes
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FCC ID: B5KAKRC1311004-2
IC: 287V-AGS10042

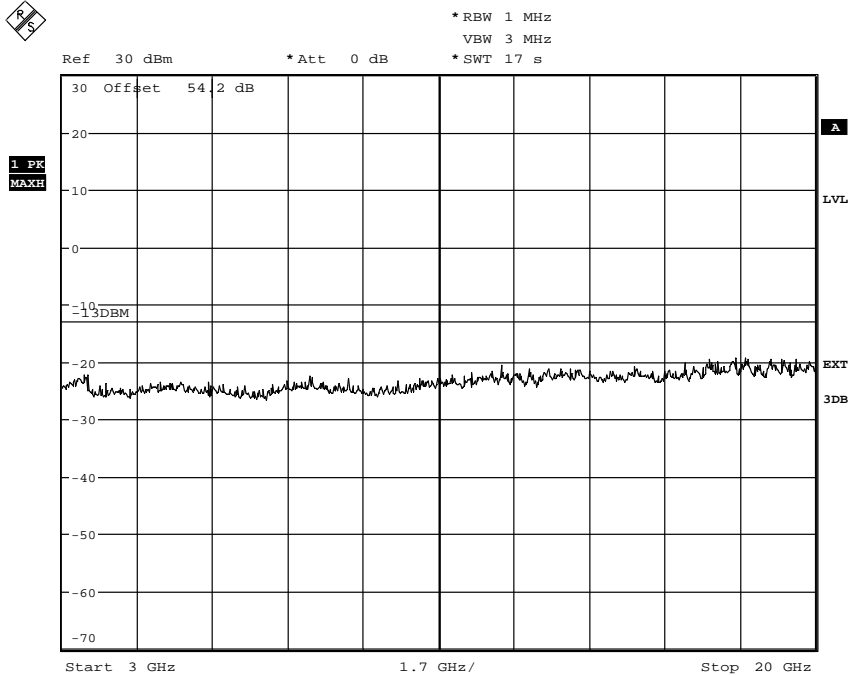
Appendix 5.1

Diagram 1



Date: 20.MAY.2010 15:11:27

Diagram 2



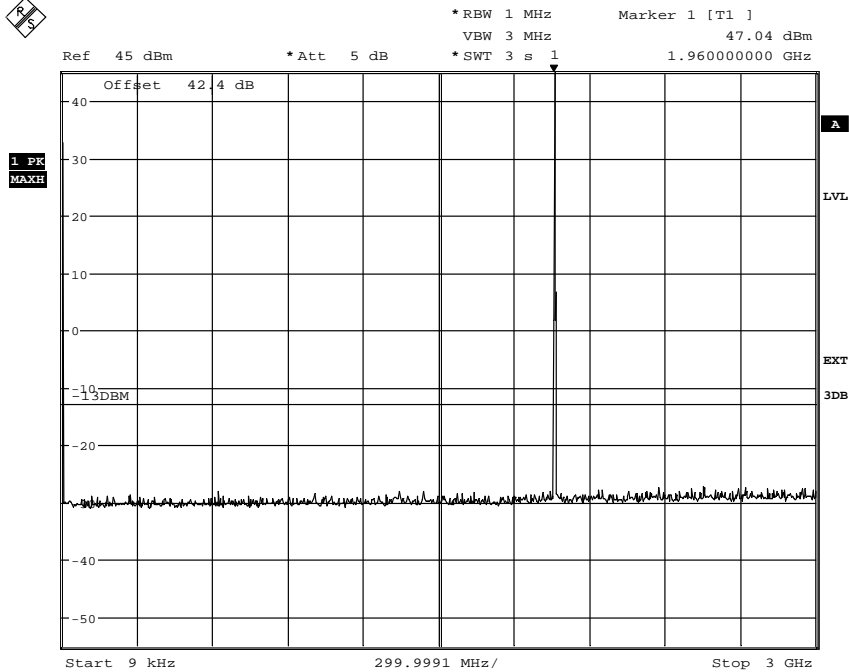
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FCC ID: B5KAKRC1311004-2
IC: 287V-AGS10042

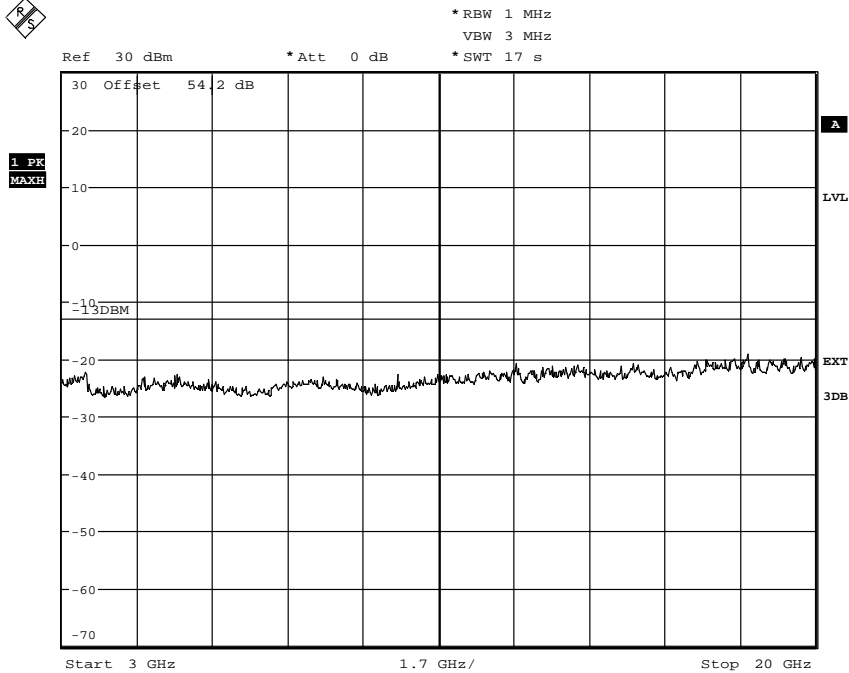
Appendix 5.1

Diagram 3



Date: 20.MAY.2010 15:21:52

Diagram 4

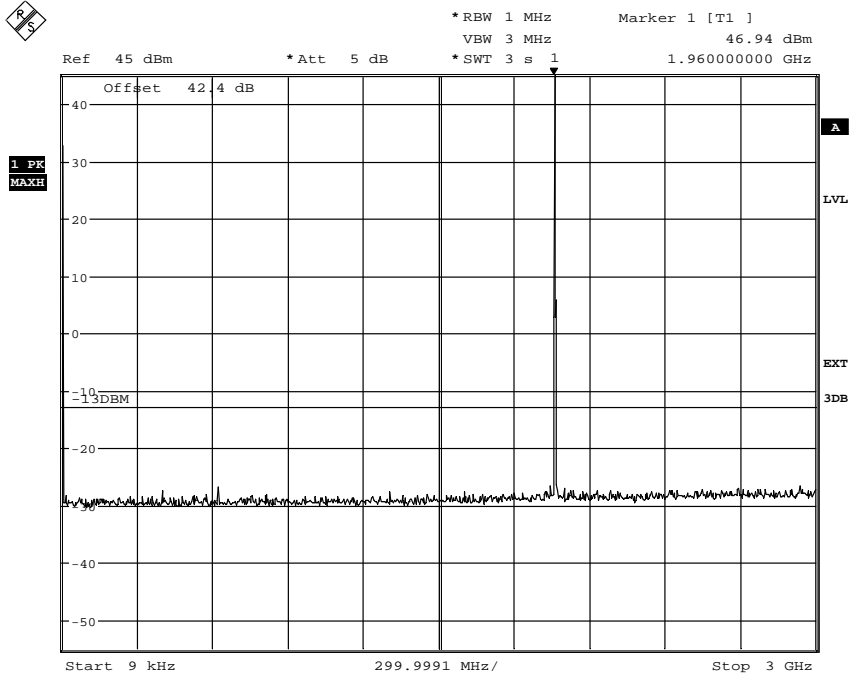


Date: 20.MAY.2010 15:25:46

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IC: 287V-AGS10042

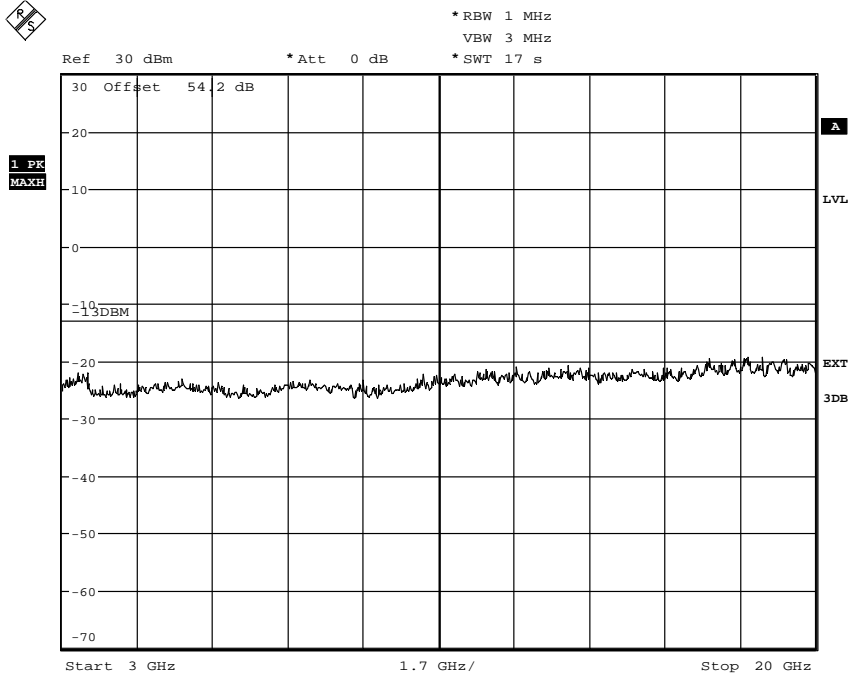
Appendix 5.1

Diagram 5



Date: 20.MAY.2010 15:31:21

Diagram 6



Date: 20.MAY.2010 15:34:13

FCC ID: B5KAKRC1311004-2
IC: 287V-AGS10042

Appendix 6

Field strength of spurious radiation measurements according to 47CFR 2.1053 / IC RSS-133 6.5

Date	Temperature	Humidity
2010-05-24	22 °C ± 3 °C	39 % ± 5 %
2010-05-25	22 °C ± 3 °C	34 % ± 5 %

Test set-up and procedure

The measurements were performed with both horizontal and vertical polarization of the antenna. The antenna distance was 3 m in the frequency range 30 MHz – 18 GHz and 1m in the frequency range 18-20 GHz.

The measurements were performed in Effective Radiated Power (ERP). A fully anechoic chamber was used during the measurements. The chamber is regularly calibrated with the substitution method and from that calibration an ERP correction factor is derived. The correction factor was used as a transducer to get the readings in ERP.

The measurement procedure was as the following:

1. A pre-measurement was first performed with peak detector. The EUT was continuously measured in 360 degrees.
2. Spurious radiation on frequencies closer than 6 dB to the limit was re-measured with RMS detector and with the substitution method according to the standard.

The test object was configured in TCC mode. TX ARFCN 661 (1960.0 MHz) was used.

Measurement equipment	SP number
Anechoic chamber, Hertz	15:116
Rohde & Schwarz FSIQ40 Signal Analyser	503 738
Rohde & Schwarz EMI Test Receiver ESI40	503 125
Chase bilog antenna CBL 6121A	502 460
Schaffner Reference Dipole BSRD6500	503 649
EMCO Horn Antenna 3115	502 175
EMCO Horn Antenna 3115	501 548
Flann Std gain horn 20240-20	503 674
MITEQ Low Noise Amplifier	503 277
Rohde & Schwarz Vector Network Analyser	503 687
RLC Electronics HP-filter F-16149	503 739
Testo 615 temperature and humidity meter	503 498

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Appendix 6

The test set-up is shown in the picture below:





FCC ID: B5KAKRC1311004-2
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Appendix 6

Results

Modulation GMSK

Frequency (MHz)	Spurious emission level (dBm)	
	Vertical	Horizontal
30-20 000	All emission > 20 dB below limit	All emission > 20 dB below limit

Modulation 16QAM

Frequency (MHz)	Spurious emission level (dBm)	
	Vertical	Horizontal
30-20 000	All emission > 20 dB below limit	All emission > 20 dB below limit

Modulation 32QAM

Frequency (MHz)	Spurious emission level (dBm)	
	Vertical	Horizontal
30-20 000	All emission > 20 dB below limit	All emission > 20 dB below limit

Measurement uncertainty: 3.2 dB up to 18 GHz, 3.6 dB above 18 GHz

Limits

The power of any emission outside the frequency band shall be attenuated below the transmitter power (P) by at least $43 + 10 \log P$ dB.

Complies?	Yes
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IC: 287V-AGS10042

Appendix 7

Hardware list RBS 2206 V2, conducted measurements

Unit	Product Number	Revision	Serial Number
Cabinet RBS2206 V2	SEB 112 1154/1	R3A	AB20131926
Door	SXK 109 7157/1	R1B	-
ACCU-11	BMG 980 07/09	R1C	(S)BH41071675
Subrack	BFL 119 424/1	R2C	-
CDU-G19	BFL 119 153/1	R5F	TR40177576
CDU-G19	BFL 119 153/1	R5F	A40003KLA1
CDU-G19	BFL 119 153/1	R5F	A40003TYJ8
Dummy	SXK 107 5031/2	R1B	-
CXU-10	KRY 101 1856/1	R3D	TR43605527
Dummy	SXK 107 5031/1	R1B	-
TRU shelf	BFL 119 425/1	R1C	-
Backplane	BFX 101 107/3	R1B	-
Empty	-	-	-
Empty	-	-	-
dTRU19	KRC 131 1004/2	R1C	AE5000JTGT
Empty	-	-	-
Empty	-	-	-
Empty	-	-	-
IDM-11	BMG 980 327/2	R1B	X181175710
PSU-shelf	BFL 119 453/1	R1A	(S)BK41073473
Backplane	BFX 101 107/3	R1A	-
PSU-AC-32	BML 353 206/2	R1C	(S)BR80299542
PSU-AC-32	BML 353 206/2	R1C	(S)BR80397732
PSU-AC-32	BML 353 206/2	R1C	(S)BR80348807
Dummy	SXK 107 9314/1	R1C	-
Cover plate	-	-	-
(Empty gap)	-	-	-
DXU-23	BOE 602 21/1	R1C/A	TU8D176697

FCC ID: B5KAKRC1311004-2
IC: 287V-AGS10042

Appendix 7

Hardware list RBS 2206 V2, radiated measurements

Unit	Product Number	Revision	Serial Number
Cabinet RBS2206 V2	SEB 112 1154/1	R3A	AB20131926
Door	SXK 109 7157/1	R1B	-
ACCU-11	BMG 980 07/09	R1C	(S)BH41071675
Subrack	BFL 119 424/1	R2C	-
CDU-G19	BFL 119 153/1	R5F	TR40177576
CDU-G19	BFL 119 153/1	R5F	A40003KLA1
CDU-G19	BFL 119 153/1	R5F	A40003TYJ8
Dummy	SXK 107 5031/2	R1B	-
CXU-10	KRY 101 1856/1	R3D	TR43605527
Dummy	SXK 107 5031/1	R1B	-
TRU shelf	BFL 119 425/1	R1C	-
Backplane	BFX 101 107/3	R1B	-
Empty	-	-	-
Empty	-	-	-
dTRU-19	KRC 131 1004/2	R1C	AE5000JTGT
Empty	-	-	-
Empty	-	-	-
Empty	-	-	-
IDM-11	BMG 980 327/2	R1B	X181175710
PSU-shelf	BFL 119 453/1	R1A	(S)BK41073473
Backplane	BFX 101 107/3	R1A	-
PSU-AC-32	BML 353 206/2	R1C	(S)BR80348807
Dummy	SXK 107 9314/1	R1C	-
Cover plate	-	-	-
(Empty gap)	-	-	-
DXU-23	BOE 602 21/1	R1C/A	TU8D176697

Test object software during both radiated and conducted measurements

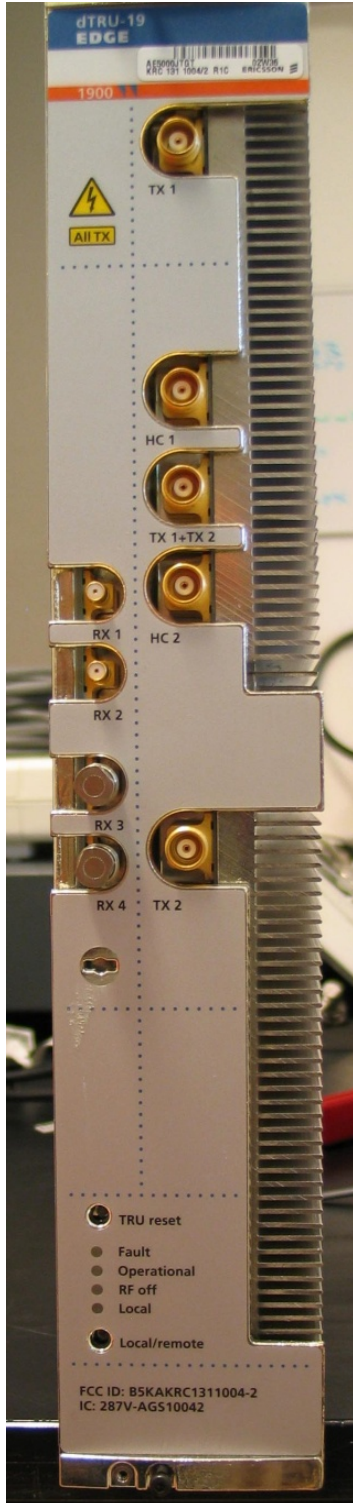
Software	Revision
CXP 104 0007/05	G11B

FCC ID: B5KAKRC1311004-2
IC: 287V-AGS10042

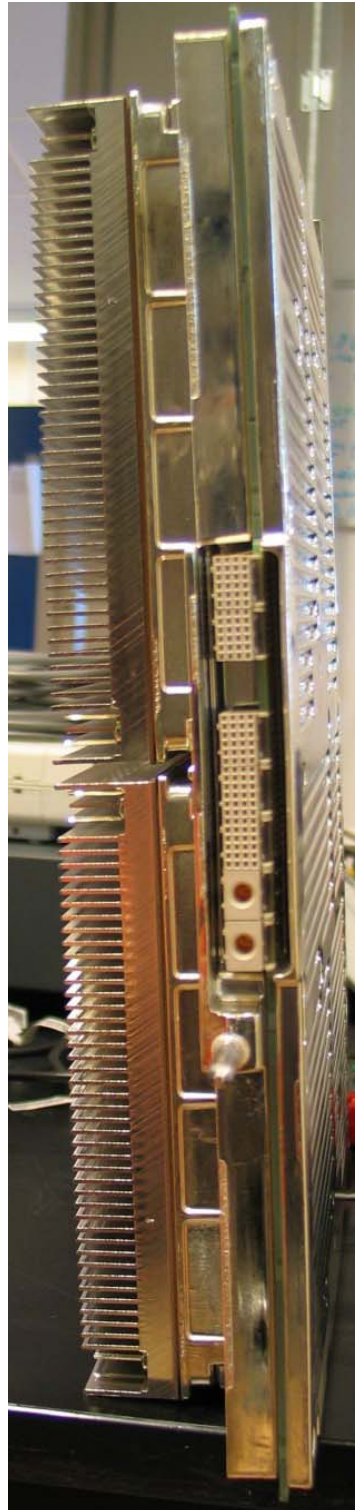
Appendix 8

Photos of the test object

Front side



Rear side



FCC ID: B5KAKRC1311004-2
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Appendix 8

Left side



Right side

