

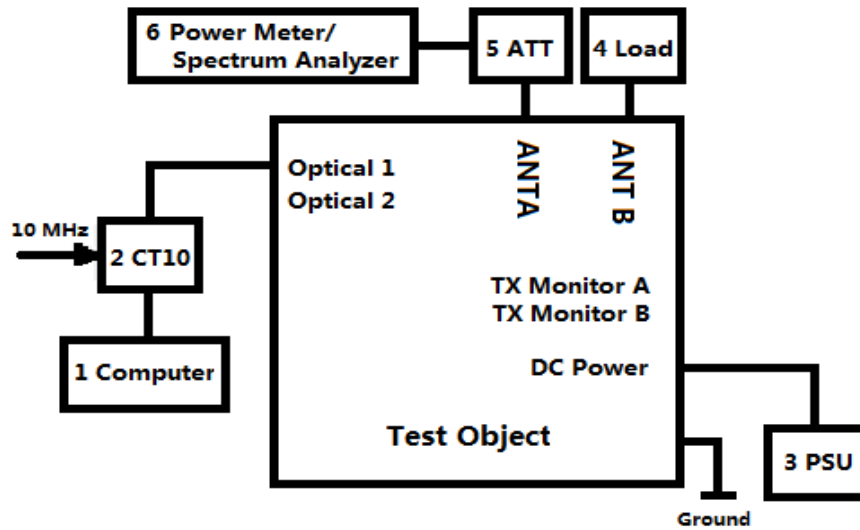
Product Information

MANUFACTURING DESCRIPTION	Remote Radio Unit
MANUFACTURER	Ericsson AB
PRODUCT NAME	Radio 2205 B46
PRODUCT NUMBER	KRC 161 609/1
TRANSMITTER OPERATING RANGE	TX: 5155.8-5250MHz, 5725-5850MHz
MODULATIONS	LTE: QPSK, 16QAM, 64QAM, 256QAM
DESIGNATION OF EMISSION	LTE: 20M0F9W
NUMBER OF CARRIERS	Maximum 3 carriers
SUPPORTED CHANNEL BANDWIDTH CONFIGURATION	LTE: 20MHz
OUTPUT POWER (RMS) (W or dBm)	Maximum 25dBm per port for all modes
OUTPUT POWER TOLERANCE	-1.0dB ~ +1.0dB
NUMBER OF ANTENNA PORTS	2 TX ports
FCC ID	TA8AKRC161609-1
Power source	36V DC
TECHNICAL DESCRIPTION (a brief description of the intended use and operation)	The equipment is the Remote Radio Part of LTE-LAA Base Station.
Test Specification	FCC CFR 47 Part 15:2016 ANSI C63.4: 2014 ANSI C63.10: 2013 KDB 789033 D02 v01r04 KDB 662911 D01 v02r01

In this test plan, the abbreviations are defined as below:

B	Bottom Channel
BW	Bandwidth
C	Carrier(s)
C1	Carrier 1
C2	Carrier 2
C3	Carrier 3
CBW	Carrier Bandwidth
CN	Carrier Number
FS	Frequency Stability
IBW	Instantaneous Bandwidth
L	LTE
M	Middle Channel
Max	Maximum
MC	Multi-Carriers
MIMO	Multiple Input Multiple Output
Mod	Modulation
OBW	Occupied Bandwidth
QP	QPSK
RAT	Radio Access Technology
SC	Single Carrier
T	Top Channel
UE	Undesirable Emission

Test Setup for Conducted Measurements:



Note:

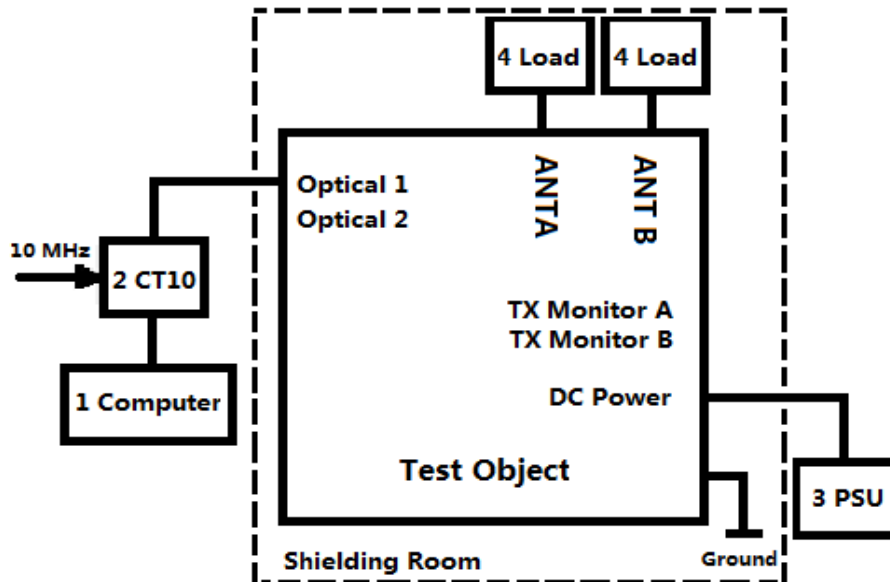
ATT:

PSU:

Attenuator

Power Supply

Test Setup for Radiated Measurements:



Note:

ATT:

PSU:

Attenuator

Power Supply

A brief summary shows the test summary for Radio 2205 B46 5155.8-5250 RF testing as below:

Spec Clause	Test Description	Configuration A: 23.5dBm maximum conducted output power (can be equipped with directional 10.5dBi Antenna)	Configuration B: 28dBm maximum conducted output power (can be equipped with 6dBi Omni Antenna)
Part 15			
15.407 (a)	Maximum Output Power	Yes	Yes
15.407 (a)(i)	Outdoor maximum EIRP	Yes	Yes
15.407 (a)	Maximum Power Spectral Density	Yes	Yes
15.407 (a) (5)	26db Bandwidth	Yes	Yes
15.407 (a) (5)	99% Occupied Bandwidth	Yes	Yes
15.407 (b) , 15. 205, 15.209	Undesirable Emission	Yes	Yes
15.407 (g)	Frequency Stability	Yes	Yes
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N/A - Not Applicable

A brief summary shows the test summary for Radio 2205 B46 5725-5850 RF testing as below:

Spec Clause	Test Description	Configuration A: 23.5dBm maximum conducted output power (can be equipped with directional 10.5dBi Antenna)	Configuration B: 28dBm maximum conducted output power (can be equipped with 6dBi Omni Antenna)
Part 15			
15.407 (a)	Maximum Output Power	Yes	Yes
15.407 (a)	Maximum Power Spectral Density	Yes	Yes
15.407 (a) (5)	26db Bandwidth	Yes	Yes
15.407 (a) (5)	99% Occupied Bandwidth	Yes	Yes
15.407 (e)	6dB bandwidth	Yes	Yes
15.407 (b) , 15. 205, 15.209	Undesirable Emission	Yes	Yes
15.407 (b)(4)	Band edge	Yes	Yes
15.407 (g)	Frequency Stability	Yes	Yes
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Configuration Information

Configuration Code	Carrier(s)	Configuration Description	Frequencies Allocation	Note
L-MIMO-SC	1C	LTE MIMO, Single Carrier	Frequencies Table for LTE Single RAT	SC
L-MIMO-MC 1	2C	LTE MIMO, Multi Carrier x2	Frequencies Table for LTE Single RAT	TC2 (Contiguous CA or non-CA) & NTC2 (Non-contiguous CA or non-CA) & ETC2 (Contiguous CA)
L-MIMO-MC 2	3C	LTE MIMO, Multi Carrier x3	Frequencies Table for LTE Single RAT	TC2 (Contiguous CA or non-CA) & ETC2 (Contiguous CA)

Note for configurations and frequency allocations:

The configurations(such as TC2 and NTC2) in chapter 5 of 3GPP TS 37.141 V11.13.0(2016-01) were used to perform the power, spurious emission and occupied bandwidth measurements for this product. Meanwhile, the frequency allocations for configurations of LTE modes , were compliance with the definition in chapter 4.8 of 3GPP TS 37.141 V11.13.0(2016-01).

According to the information from manufacturer, LTE operation can be configured to Carrier Aggregation(CA), and the maximum CA bandwidth is 60MHz.

In the below tables, the units of frequencies, CBW(channel bandwidth), IBW(intantaneous bandwidth) are megahertz(MHz) unless otherwise stated.

Frequencies Table for LTE Single RAT															
LTE MIMO				Maximum Output Power, Power Spectral Density (All Mod) EIRP (All Mod)			FS(SC, QP)			26dB BW (SC, All Mod)			UE(Worst case)		
	IBW (MHz)	CBW (MHz)	CN	B	M	T	B	M	T	B	M	T	B	M	T
Single Carrier	N/A	20.0	C1	5180.00	5220.00	5240.00	5180.00	5220.00	5240.00	5180.00	5220.00	5240.00	5180.00	5220.00	5240.00
Multi-Carrier (1x2) TC2 & NTC2	60.0	20.0	C1	5180.00		5200.00							5180.00		5200.00
			C2	5220.00		5240.00							5220.00		5240.00
Multi-Carrier (1x3) TC2	60.0	20.0	C1	5180.00		5200.00							5180.00		5200.00
			C2	5200.00		5220.00							5200.00		5220.00
			C3	5220.00		5240.00							5220.00		5240.00

Frequencies Table for LTE Single RAT															
LTE MIMO				Maximum Output Power, Power Spectral Density (All Mod)			FS(SC, QP)			26 dB BW, 6 dB BW(SC, All Mod)			UE(Worst case)		
	IBW (MHz)	CBW (MHz)	CN	B	M	T	B	M	T	B	M	T	B	M	T
Single Carrier	N/A	20.0	C1	5745.00	5785.00	5825.00	5745.00	5785.00	5825.00	5745.00	5785.00	5825.00	5745.00	5785.00	5825.00
Multi-Carrier (1x2) TC2 & NTC2	60.0	20.0	C1	5745.00	5765.00	5785.00							5745.00	5765.00	5785.00
			C2	5785.00	5805.00	5825.00							5785.00	5805.00	5825.00
Multi-Carrier (1x3) TC2	60.0	20.0	C1	5745.00	5765.00	5785.00							5745.00	5765.00	5785.00
			C2	5765.00	5785.00	5805.00							5765.00	5785.00	5805.00
			C3	5785.00	5805.00	5825.00							5785.00	5805.00	5825.00