

<Technical Report>

XGP Forum Document
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Title: Characteristics for sharing studies
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List of contents: 1 Characteristics for use in sharing studies 2 Base station spectrum emission mask 3 Mobile station spectrum emission mask 4 Base station spectrum emission specification
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XGP Forum

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History of Revised Versions/Revisions

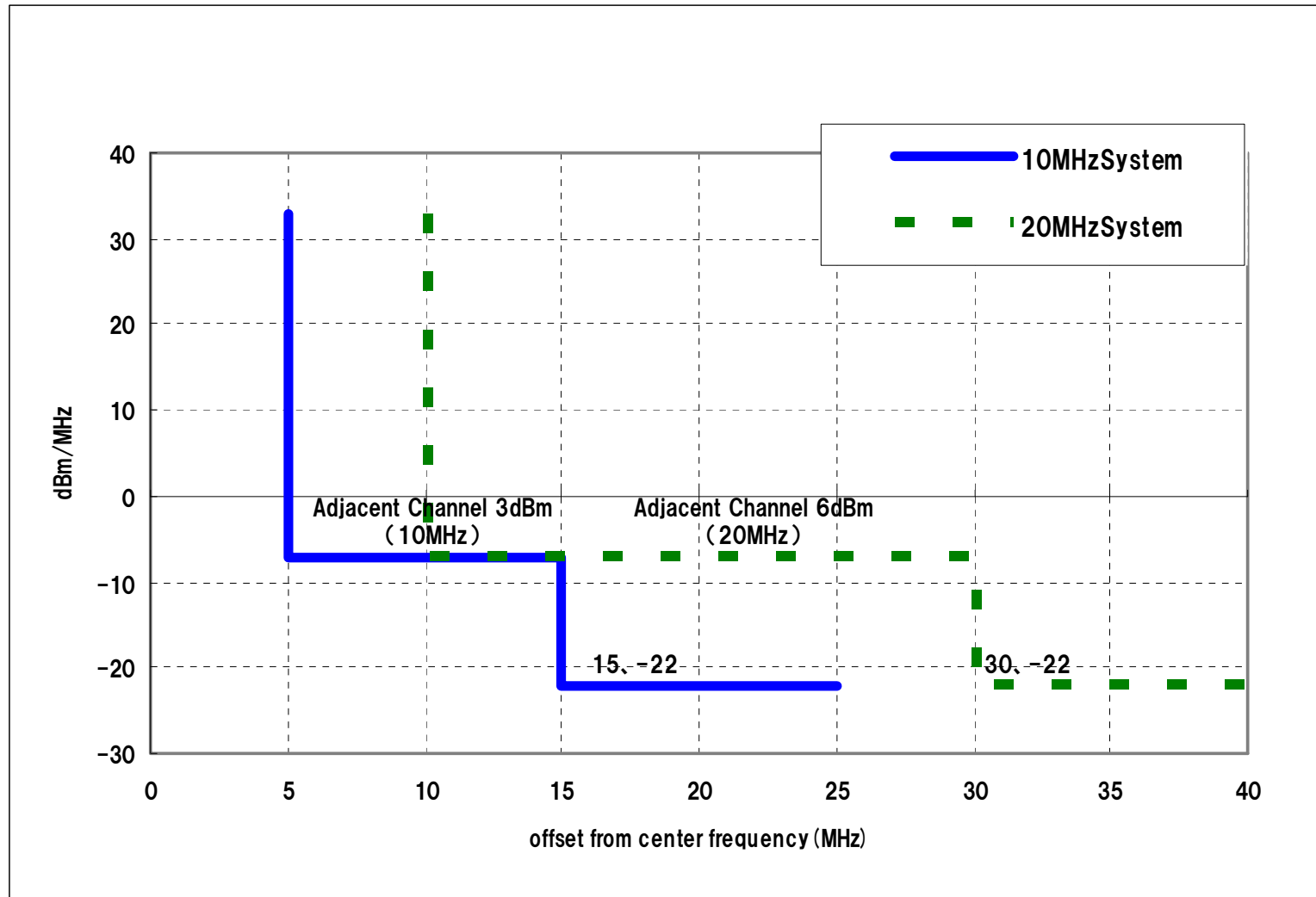
Version	Revision	Date	Outline
01	01	December 21, 2010	Approved by 14 th . TWG Meeting. Established

1 Characteristics for use in sharing studies

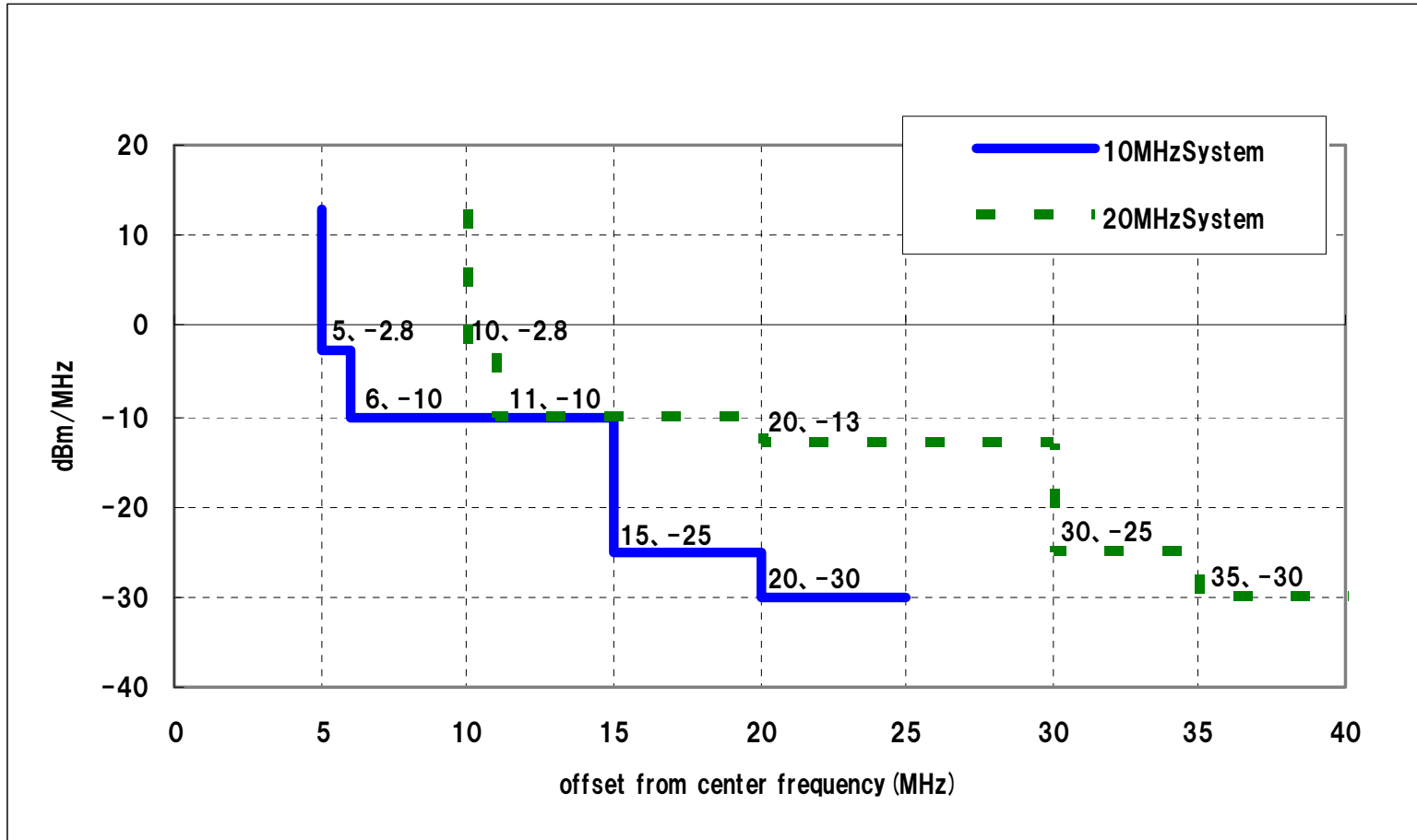
Contents included in the table below and following information are technical and operational characteristics of XGP system to be used for sharing studies for both base stations and mobile stations as reference values.

Parameter		XGP			
		BS		MS	
Nominal channel BW (MHz)		10	20	10	20
Occupied bandwidth(MHz)		10	20	10	20
Modulation type		BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM		BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM	
Duplex method		TDD			
Access technique		OFDMA, SC-FDMA/TDMA			
Transmission burst lengths		UL: $625\mu s \times N_{USL}$ or under ($1 \leq N_{USL} \leq 14$) DL: $625\mu s \times N_{DSL}$ or under ($1 \leq N_{DSL} \leq 14$) $N_{USL} + N_{DSL} = 4, 8$ or 16			
No. of sectors		1 or more		Not applicable	
Antennas per sector		4 or more		1 or more	
Co-located antenna minimum coupling loss (dB)		30		Not applicable	
Antenna gain (dBi)		12 or more		0 to 4	
Misc. losses (dB)		5		0	
Antenna height AGL (m)		15 to 45		≤ 1.5	
Radiation pattern		Omni-directional or directional		Omni-directional	
Average power (dBm)		40 / 43	46	23	
Adjacent Channel Leakage Ratio (ACLR) (dB)	ACLR_1 (dB)	37 / 40	40	21	20
	ACLR_2 (dB)	52 / 55	55	33	33

2 Base station spectrum emission mask



3 Mobile station spectrum emission mask



4 Base station spectrum emission specification

