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Project	<b>IEEE 802.20 Working Group on Mobile Broadband Wireless Access</b> < <a href="http://grouper.ieee.org/groups/802/20/">http://grouper.ieee.org/groups/802/20/</a> >	
Title	<b>Receiver Sensitivity and Adjacent Channel Selectivity MPS for BS Receiver</b>	
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Re:	The MBWA Minimum Performance project	
Abstract	This contribution presents the minimum performance specification (MPS): Receiver Sensitivity and Adjacent Channel Selectivity, for the Base Station Receiver of 625k-MC Mode.	
Purpose	For consideration of 802.20 WG	
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Modulation Class	Base Station
	Standard[dBm]
Mod 0	-107.5
Mod 1	-105.7
Mod 2	-104.2
Mod 3	-101.3
Mod 4	-100.1
Mod 5	-96.9
Mod 6	-94.8
Mod 7	-93.5
Mod 8	-91.6
Mod 9	-89.2
Mod 10	-86.2

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## 2 **3.2 Adjacent Channel Selectivity**

3 Adjacent channel selectivity (ACS) measures the receiver's ability to receive a desired signal on  
4 its assigned carrier in the presence of a modulated interfering signal on an adjacent carrier.

### 5 3.2.1 Definition

6 ACS is defined in clause 6.4.2. of ATIS- 0700004.2005.

### 7 3.2.2 Minimum Standard

8 The ACS shall be at least 30 dB adjacent carriers 625 kHz apart, and at least 46 dB  
9 for streams 1250 kHz or more apart.

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## 11 **4 REFERENCES**

12 [1] IEEE 802.20™ “The Standard for Local and Metropolitan Area Networks –  
13 Standard Air Interface for Mobile Broadband Wireless Access Systems Supporting  
14 Vehicular Mobility – Physical and Media Access Control Layer Specification”

15 [2] ATIS-0700004.2005, High Capacity-Spatial Division Multiple Access (HC-SDMA)  
16 Radio Interface Standard, September 2005