

5.2.4 Reception characteristics

This panel consists in setting of the receiver characteristics of the generic system:

Table 12: Reception characteristics GUI

Description	Symbol	Type	Unit	Comments
Noise floor: define a distribution of the noise floor	<i>N</i>	Distribution or Scalar	dBm	See section 1.2.3 for further details
Blocking mode	-	Boolean	-	Blocking mode and associated blocking mask
Blocking response: Receiver frequency response (receiver blocking performance)	<i>blocking</i>	Function (X,Y) (MHz)	dBm or dB depend. on mode	Receiver mask attenuation (positive or negative values depending on the chosen blocking mode, see below) versus frequency, see ANNEX 8:
Intermodulation rejection: Intermodulation response (intermodulation interference)	<i>intermod</i>	Function (X,Y) (MHz)	dB	Receiver mask at the intermodulation frequency. (see Annex A5.3 for further details)

Receive power dynamic range	$P_{C_{max}}$	Scalar	dB	Used in the calculation of the dRSS. It is the maximum range of the received power that the VLR can accept, in terms of the maximum receive power over the VLR's sensitivity threshold. If the trialled dRSS value exceeds $sens + P_{C_{max}}$, the dRSS is set to the latter value. See ANNEX 14:.
Sensitivity	$sens$	Scalar	dBm/VLR reception bandwidth	Sensitivity of the receiver. See Section 1.2.4
Reception bandwidth: Operating bandwidth	B	Scalar	kHz	Bandwidth of the receiver.
Overloading	-	Boolean	-	When selected, the overloading calculation is performed. See Annex A5.4 for further details.
Overloading threshold	Oth	Function (X,Y) (MHz)	dBm	It is the maximum interfering signal level close to which the receiver loses its ability to discriminate against interfering signals at frequencies differing from that of the wanted signal
Receiver filter	Rx_filter	Function (X,Y) (MHz)	dB	Filtering of the receiver (if any). The filtering of the receiver is by default 0 dB (similarly to the default blocking filtering value). It is used in connection with the overloading calculation.

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