

Calibration factors (CF, A) determined by JAXA CalVal observations (ver. Mar. 23, 2017)

Product ordering time (for AUIG-2)		Sep. 11, 2014 ~ Sep. 28, 2016, 7:00 UT	Sep. 28, 2016, 7:00 UT ~ Mar. 28, 2017	Mar. 28, 2017 XX:XX UT ~
Version of the processing software		000.001 ~ 002.021	002.022	002.023
CF [dB]	Spotlight	all	-81.1	
	Stripmap [3 m]	U2-6	-81.6	
		U2-7	-81.2	
		U2-8	-81.6	
		U2-9	-81.7	
	Stripmap [6 m]	FP6-3	-81.0	
		FP6-4	-81.7	
		FP6-5	-82.8	
		FP6-6	-82.5	
		FP6-7	-80.8	
	Stripmap [10 m]	F2-5	-82.4	
		F2-6	-82.4	
		F2-7	-81.9	
ScanSAR	W2	-79.0	-83.0	
the other		-83.0	-83.0	-83.0
A [dB]	all	32.0		

For L1.5, L2.1

$$\sigma_{Q16}^0 = 10 \cdot \log_{10} \langle DN^2 \rangle + CF_1$$

For L1.1

$$\sigma_{slc}^0 = 10 \cdot \log_{10} \langle I^2 + Q^2 \rangle + CF_1 - A$$

σ^0 : Backscattering coefficient (Sigma naught or Sigma zero) [unit: dB]

DN: Digital number (or raw pixel value)

CF_1, A : Calibration factor [unit: dB]