

SAR Test exemption documentation according to CFR 47 §1.1307

Report identification number: 1-1910/21-02-13 Exemption / MPE (FCC)

Manufacturer:	Sennheiser electronic GmbH & Co. KG
FCC ID:	DMOEKEWDP
Model no:	EW-DP EK
Product name:	Evolution Wireless Digital
Kind of test item:	Portable Receiver
Brand name:	Sennheiser

This test report is electronically signed and valid without handwritten signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

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EUT technologies:

SAR based exempted technologies:

Technologies:	Max. measured power [dBm]		Max. declared EIRP [dBm]	#
	conducted	EIRP		
BT LE 2450 MHz	4.70	5.7	6.0 (=3.98mW)	A

Details and origins of the measurements shown in the table above:

#	Results from:	Additional information
A	1-1910_21-02-12 CTC advanced GmbH	Antenna gain page 21, Max conducted page 25

SAR test exclusion according to KDB447498 (General RF Exposure Guidance v06)

Equation from Chapter 4.3.1: Standalone SAR test exclusion considerations page 11 and ff.

(1) Standalone SAR test exclusion for 100 MHz to 6 GHz at test separation distances $\leq 50\text{mm}$

$$(\text{Threshold}_{1\text{-g};10\text{-g}}) \times d_{\text{separation}} / f^{0.5}$$

where

 $\text{Threshold}_{1\text{-g};10\text{-g}}$ is 3 for 1-g; 7.5 for 10-g $d_{\text{separation}}$ is the min. test separation distance; 5mm is used if the distance is less f is the RF channel transmit frequency

The table below gives the calculated maximal power that could be used for source based time averaged conducted or radiated power, adjusted for tune up tolerance. If this is at or below the calculated value the DUT is exempted from SAR evaluation.

frequency [MHz]	$d_{\text{separation}}$ [mm]	$\text{Threshold}_{1\text{-g}}$	Powerlimit [mW]	$P_{\text{max-declared}}$		Exclusion
				[dBm]	[mW]	
2450.00	5	3	9.58	6.00	3.98	yes

This prediction demonstrates the following:

The power density levels for FCC that are larger than the minimum safety-distances stated above, are below the maximum levels allowed by regulations.