
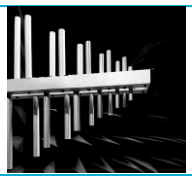
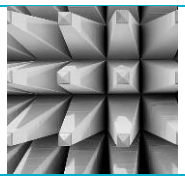

CTC advanced
member of RWTÜV group

Bundesnetzagentur

BNetzA-CAB-02/21-102

ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-PL-12076-01-04

SAR Test exclusion documentation according to FCC KDB 447498, RSS-102

Report identification number: 1-3176/21-01-09 Exclusion (FCC_ISED)

contains the module with the following certification numbers	
FCC ID	UN6-EIO344
ISED number	6799A-EIO344
HVIN (Hardware Version Identification Number)	EIO344
PMN (Product Marketing Name)	Bluetooth Adapter Series
FVIN (Firmware Version Identification Number)	-/-
HMN (Host Marketing Name)	-/-

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.

Document authorised:

cn=Alexander Hnatovskiy, o=CTC advaced GmbH, ou=HNA-211126, email=alexander.hnatovskiy@ctcadvaced.com, c=DE
2022.10.05 14:34:25 +02'00'

Alexander Hnatovskiy
Lab Manager
Radio Communications & EMC

cn=Marco Scigliano, o=CTC advanced GmbH, ou=SCI-211118, email=marco.scigliano@ctcadvanced.com, c=DE
2022.10.05 14:32:59 +02'00'

Marco Scigliano
Testing Manager
Radio Communications & EMC

EUT technologies:

Technologies:	Channel	Max. meas. conducted [dBm]	Max. meas. EIRP [dBm]	Max. meas. antenna gain: [dBi]	Max. declared EIRP	#
BT LE	Low 2402 MHz	9.2	4.7	-5.3	5.0 dBm (=3.16mW)	A
	Middle 2440 MHz	8.3	4.7	-4.4		
	High 2480 MHz	8.6	3.8	-5.6		

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

#	Results from:	Additional information
A	1-3176/21-01-07 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 ≤ 50mm

$$(Threshold_{1\text{-}g;10\text{-}g}) \times d_{seperation} / f^{0.5}$$

where

$Threshold_{1\text{-}g;10\text{-}g}$ is 3 for 1-g; 7.5 for 10-g
$d_{seperation}$ 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]	$d_{separation}$ [mm]	$Threshold_{1\text{-}g}$	Powerlimit [mW]	$P_{max\text{-}declared}$		Exclusion
				[dBm]	[mW]	
2450.00	5	3	9.58	9.20	8.32	yes

SAR test exclusion according to RSS-102 Issue 5 Section 2.5.1/Table 1

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]	$d_{separation}$ [mm]	tissue volume	Powerlimit [mW]	$P_{max\text{-}declared}$		Exclusion
				[dBm]	[mW]	
2450.00	15	1 g	15.00	9.20	8.32	yes

The limits above are defined for body worn application and therefore cover all use cases. Separation distance of 15 mm to the human body is required.