

RF Exposure Evaluation according to KDB 447498 D01 v06

Certification numbers and labeling requirements	
FCC ID	AHV-CTAG

MPE at given distance (KDB 447498 D01 General Exposure Guidance v06)

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

where: S = Power density

P = Power input to the antenna

G = Antenna gain

R = Distance to the center of radiation of the antenna

PG = Output Power including antenna gain

Frequency Range (MHz)	Power Density (mW/cm ²)	Averaging Time (minutes)
1500 - 100000	1.0	30

where f = Frequency (MHz)

EUT technology

Declared minimum safety distance: 20 cm

SRD Technology	Frequency [MHz]		Reference #	Output Power [dBm]			Output Power [mW/cm ²]		Share of Limit %
	f _{Min}	f _{Max}		P _{ERP}	P _{EIRP}	P _{RF Exp}	S _{Result}	S _{Limit}	
Bluetooth LE	2402	2480	A	N/A	9.1	9.1	0.0016	1.00	0.16%

Referenced Documents:

#	Results from:
A	Test Report: 1-7878-24-01-05_TR1-R02 & 1-7878-24-01-02_TR1-R01

Conclusion

This prediction demonstrates the following:

The power density levels for FCC at a distance of 20 cm are below the maximum levels allowed by regulations.

Conclusion: RF exposure evaluation is not required.

Document authorized:



Mikael Nyström

Electrical Design Engineer