

Test report cover sheet

KDB 447498 D01 General RF Exposure Guidance v05r02 (February 7, 2014)

1. Declaration of RF exposure compliance for exemption from routine evaluation limits

FCC ID:	2AY4L-CUESTICKER
Model number:	PREMO7V1.0
Manufacturer:	Cuepath Innovation Inc
	<p>During normal operation, user extremities can come within 20 cm of the internal antenna and therefore product is considered as "Portable".</p> <p>The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at Test separation distances \leq 50 mm are determined by:</p> $[(\text{max. power of channel, including tune-up tolerance, mW}) \div (\text{min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$ <p>$f(\text{GHz})$ is the RF channel transmit frequency in GHz</p> <p>Power and distance are rounded to the nearest mW and mm before calculation</p> <p>The result is rounded to one decimal place for comparison</p> <p>The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is $<$ 50 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion</p> <p>Calculation based on the above formula:</p> <p>Separation Distance = 5mm</p> <p>Conducted Output Power = 1.84 dBm = 1.528 mW</p> <p>Frequency = 2440 MHz</p> <p>Calculation = $(1.528 \div 5) \times \sqrt{2.440} = 0.477 < 3$</p> <p>The calculation is below the threshold, therefore the product exempt from the SAR test requirements</p>
4.3.1. Standalone SAR test exclusion considerations:	

2. Attestation

ATTESTATION: I attest that the testing was performed or supervised by me; that the test measurements were made in accordance with the above-mentioned departmental standard(s), and that the radio equipment identified in this application has been subject to all applicable test conditions specified in the departmental standards and all of the requirements of the standards have been met.

Signature:	
Date:	March 16, 2021
Name:	Martha Espinoza

Prediction of MPE limit at a given distance

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

$$S = \frac{PG}{4\pi R^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Bluetooth	
<u>2.4 GHz</u>	
Maximum peak output power at device output terminal:	1.84 dBm
Cable and Jumper loss:	0 dB
Maximum peak output power at antenna input terminal:	1.84 dBm
	1.52756606 mW
Single Antenna gain (typical):	0 dBi
Number of Antennae:	1
Total Antenna gain (typical):	0 dBi
	1 (numeric)
Prediction distance:	20 cm
Prediction frequency:	2440 MHz
MPE limit for uncontrolled exposure at prediction frequency:	1 mW/cm ²
Power density at prediction frequency:	0.0003039 mW/cm ²
	0.003039 W/m ²
Tx On time:	1 ms
Tx period time:	1 ms
Average Factor:	100 %
Average Power density at prediction frequency:	0.003039 W/m ²
Maximum allowable antenna gain:	35.1726986 dBi
	<u>35.1726986 dB</u>

Margin of Compliance:

Bluetooth
0.00030 <1.0