



FCC SAR Exclusion Report

FCC ID: UFOOPN4200I

Report No.	:	BTL-FCCP-2-2107T062				
Equipment	:	Handheld Bluetooth 1D CCD Scanner				
Model Name	:	OPN-4200i				
Brand Name	:	OPTICON				
Applicant	:	OPTOELECTRONICS Co., Ltd.				
Address	:	4-12-17, Tsukagoshi, Warabi-shi, Saitama Pref., 335-0002 Japan				
Manufacturer	:	OPTOELECTRONICS Co., Ltd.				
Address	:	4-12-17, Tsukagoshi, Warabi-shi, Saitama Pref., 335-0002 Japan				
FCC Rule Part(s)	:	FCC Part 2, Subpart J (§2.1093) KDB 447498 D01 General RF Exposure Guidance v06				
Date of Receipt Date of Test Issued Date	::	2021/7/16 2021/7/16~ 2021/10/13 2022/3/1				

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

Prepared by Jerry Chuang Supervisor **ac-MRA** Testing Laborator 0659 Approved by Peter Chen, Vice Manager BTL Inc. No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan Tel: +886-2-2657-3299 Fax: +886-2-2657-3331 Web: www.newbtl.com Project No.: 2107T062 Page 1 of 3 Report Version: R00



REVISON HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2107T062	R00	Original Report.	2022/3/1	Valid



According to KDB 447498 section 4.3.1 a), the 1-g SAR test exclusion thresholds at test separation distance \leq 50 mm are determined by:

{ [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] $* [\sqrt{f}(GHz)] \le 3.0$

The maximum tune up power is -2 dBm +/- 1dB, therefore the highest tune-up powers is

-1.0 dBm (0.79 mW) @ 2402 MHz

When the minimum test separation distance is < 50 mm, a distance of 5 mm according to e) in section 4.1 is applied to determine SAR test exclusion.

So,

(0.8mW / 5mm) * (2.402GHz ^0.5)= 0.2

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] * [$\sqrt{f}(GHz)$] = 0.2 < 3.0

Therefore, standalone SAR measurements are not required for both head and body.

End of Test Report