



RF Exposure Evaluation Report

Application No.: PR2510270003R000018-00008
Applicant: FULLY TANKED UP IP PTY LTD
Address of Applicant: 258 Ayrshire Loop, Lower Chittering, Perth , Western Australia
EUT Description: Water Level Sensor
Model No.: WLP-B
FCC ID: 2BSYA-WLP-B
Power supply: DC 1.5V
Trade Mark: /
47 CFR Part 2.1091
Standards: FCC KDB 447498 D01 v06
Date of Receipt: 2025/10/27
Date of Test: 2025/10/28 to 2025/11/14
Date of Issue: 2025/11/14
Test Result: PASS

Prepared By: Wayne Lin (Testing Engineer)

Reviewed By: Pengfei Chen (Project Engineer)

Approved By: Yiwei Chen (Manager)



Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.

Dongguan DN Testing Co., Ltd.

Add: No. 1, West Fourth Street, Xingfa South Road, Wusha Community, Chang 'an Town, Dongguan City, Guangdong P.R.China

Web: www.dn-testing.com

Tel: +86-769-88087383

E-mail: service@dn-testing.com

**Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Nov.14, 2025	Valid	Original Report



Contents

1 GENERAL INFORMATION	4
1.1 TEST LOCATION	4
1.2 GENERAL DESCRIPTION OF EUT	4
2 RF EXPOSURE EVALUATION	5
2.1 RF EXPOSURE COMPLIANCE REQUIREMENT	5
2.1.1 Limits	5
2.1.2 Test Procedure	6
2.1.3 EUT RF Exposure Evaluation	6



1 General Information

1.1 Test Location

Company:	Dongguan DN Testing Co., Ltd
Address:	No. 1, West Fourth Street, South Xinfu Road, Wusha Liwu, Chang ' an Town, Dongguan City, Guangdong P.R.China
Test engineer:	Wayne Lin

1.2 General Description of EUT

Manufacturer:	FULLY TANKED UP IP PTY LTD
Address of Manufacturer:	258 Ayrshire Loop, Lower Chittering, Perth , Western Australia
Factory:	Chengdu Yilian Wantong Electronic Technology Co., Ltd
Address of Factory:	No. 15, 1st Floor, Building 25, No. 360 Nanhu Avenue, Huayang Street, Tianfu New Area, Sichuan Province
EUT Description:	Water Level Sensor
Model No.:	WLP-B
Additional Model(s):	/
Power Supply:	DC 1.5V
Trade Mark:	/
Hardware Version:	V1.0
Software Version:	V1.0
Chip Type:	N52832
Serial number	PR2510270003R000018
Sample Type:	☐ Portable Device, ☐ Module, ☒ Mobile Device
Antenna Type:	☐ External, ☒ Integrated
Antenna Ports:	☒ Ant 1, ☐ Ant 2, ☐ Ant 3
Antenna Gain:	☒ Provided by applicant
	4.9dBi
Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, DNT is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.	



2 RF Exposure Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=frequency in MHz
*=Plane-wave equivalent power density
RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

Friis Formula

Friis transmission formula: $Pd = (Pout * G) / (4 * \pi * R^2)$

Where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



2.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually

2.1.3 EUT RF Exposure Evaluation

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.0 / 2.0 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

This confirmed that the device comply with MPE limit.

Test Mode	Antenna	Freq(MHz)	Power [dBm]
BLE 1M	Ant1	2402	2.42
		2440	2.32
		2480	2.43
BLE 2M	Ant1	2402	2.38
		2440	2.38
		2480	2.30

The Worst Mode	Antenna	Peak output power (dBm)	Target power (dBm)	MAX Target power (dBm)	Antenna gain		Power Density (S) (mW /cm ²)	Limited of Power Density (S) (mW /cm ²)	Test Result	Distance (cm)
					(dBi)	(Linear)				
2.4G Band										
BLE 1M	Ant1	2.43	2±1	3	4.9	3.090	0.0012	1	Complies	20

The End Report