

RF Exposure Evaluation Report

Product : SeaLink Underwater Smartphone
Data Transmitter

Trade mark : DIVEVOLK

Model/Type reference : AW-20

Serial Number : N/A

Report Number : EED32R80609503

FCC ID : 2BOFDAW-20

Date of Issue : Aug. 27, 2025

Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091(mobile devices)
47 CFR Part 2.1093(portable devices)
KDB 447498 D04 Interim General RF
Exposure Guidance v01

Test result : PASS

Prepared for:

Divevolk (Zhuhai) Intelligence Tech Co., Ltd
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2 General Information

2.1 Client Information

Applicant:	Divevolk (Zhuhai) Intelligence Tech Co., Ltd
Address of Applicant:	17th Floor, Room 229, No. 91, Qinlang Road, Hengqin New District, Zhuhai City
Manufacturer:	Divevolk (Zhuhai) Intelligence Tech Co., Ltd
Address of Manufacturer:	17th Floor, Room 229, No. 91, Qinlang Road, Hengqin New District, Zhuhai City
Factory:	Zhongshan Haichu Intelligence Technology Co., Ltd.
Address of Factory:	4th Floor, Area B, Building 3, Jinwan Industrial Park, Shengye Road, Xinxu Village, Sanxiang Town,Zhongshan City

2.2 General Description of EUT

Product Name:	SeaLink Underwater Smartphone Data Transmitter
Model No.(EUT):	AW-20
Trade Mark:	DIVEVOLK

2.3 Product Specification subjective to this standard

Frequency Range:	2.4G Wi-Fi: IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz IEEE 802.11ax(HE20): 2412MHz to 2472MHz IEEE 802.11ax(HE40): 2422MHz to 2462MHz LTE: FDD band 2:UL:1850-1910MHz,DL:1930-1990MHz; FDD band 4:UL:1710-1755MHz,DL:2110-2155MHz; FDD band 5:UL:824 - 849 MHz,DL: 869 - 894MHz; FDD band 12:UL:699-716MHz,DL:729-746MHz; FDD band 13:UL:777-787MHz,DL:746-756MHz; FDD band 17:UL:704 - 716MHz,DL:734 - 746MHz; FDD band 25:UL:1850-1914.9MHz,DL:1930-1994.9MHz
Modulation Type:	2.4G Wi-Fi: IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM,QPSK,BPSK) IEEE for 802.11ax(HE20/HE40): OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) LTE: QPSK,16QAM,64QAM
Test Power Grade:	Default
Test Software of EUT:	CMD
Antenna Type:	2.4G Wi-Fi:PCB Antenna, LTE:Rod Antenna and FPC Antenna
Antenna Gain:	2.4G Wi-Fi: 4.81 dBi LTE: FDD band 2:UL:1850-1910MHz,DL:1930-1990MHz; 0.02dBi FDD band 4:UL:1710-1755MHz,DL:2110-2155MHz; 1.94dBi FDD band 5:UL:824 - 849 MHz,DL: 869 - 894MHz; 2.87dBi FDD band 12:UL:699-716MHz,DL:729-746MHz; 2.67dBi

	FDD band 13:UL:777-787MHz,DL:746-756MHz;3.34dBi FDD band 17:UL:704 - 716MHz,DL:734 - 746MHz; 2.67dBi FDD band 25:UL:1850-1914.9MHz,DL:1930-1994.9MHz; 0.02dBi	
Power Supply:	Battery(21700/50E)	7.3V(2*3.65V) or 14.6V(4*3.65V)
Sample Received Date:	Jul. 09, 2025	
Sample tested Date:	Jul. 09, 2025 to Aug. 05, 2025	

2.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Hongwei Industrial Park, Zone 70, Bao'an District, Shenzhen, Guangdong, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

2.7 Other Information Requested by the Customer

None.

3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

3.1.2 Test Procedure

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

3.1.3 EUT RF Exposure Evaluation

For Stand alone:

	Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
2.4G Wi-Fi	1	12.55	13.00±1	14	25.1189
LTE	Band 2	24.99	25.00±1	26	398.1072

2.4G Wi-Fi

Frequency (MHz)	Estimation distance (cm)	Maximum tune- up Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
@2.4GHz	20	14	4.81	16.66	46.3445	3060	0.0151	Pass

LTE

Band	Frequency (MHz)	Estimation distance (cm)	Maximum tune-up Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
Band 2	1880	20	26	0.02	23.87	243.7811	3060	0.0797	Pass

Note:

- ① EIRP=conducted power+antenna gain;
- ② ERP=EIRP-2.15;
- ③ EIRP(dBm) = Field strength of the fundamental signal(dBuV/m@3m) – 95.23;
- ④ ERP(mW) = $10^{(ERP \text{ (dBm)}/10)}$;
- ⑤ The estimation distance is 20cm;
- ⑥ The test data please refer to the report of EED32R80609501, EED32R80609502 Appendix Band 2, EED32R80609502 Appendix Band 4, EED32R80609502 Appendix Band 12, EED32R80609502 Appendix Band 13, EED32R80609502 Appendix Band 17, EED32R80609502 Appendix Band 25 and only the worst case data was recorded in the report.

For Simultaneous Transmission:

As MPE ratio (2.4G Wi-Fi +LTE)= $0.0151^2+0.0797^2=0.0065801 < 1$, it' s deemed to fulfil the RF exposure requirement.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
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*** End of Report ***