

RF EXPOSURE REPORT

FCC ID: 2BL5O-ZX800-SG

Test Report No.....: RF241031011-01-003

Product(s) Name.....: LTE Module

Model(s).....: ZX800-SG

Trade Mark.....: ZXINFOTEK

Applicant.....: ZXInfoTek(Shenzhen) Co., Ltd.

Address.....: Room 205,2/F,building 1, software industry base, No. 81, 83, 85,
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District, Shenzhen

Receipt Date.....: 2024.11.05

Test Date.....: 2024.11.06~2024.11.25

Issued Date.....: 2024.11.26

Standards.....: FCC Guidelines for Human Exposure IEEE C95.1
FCC Title 47 Part 2.1091
KDB 447498 D01 General RF Exposure Guidance v06

Testing Laboratory.....: Shenzhen Haiyun Standard Technical Co., Ltd.

Prepared By:	Checked By:	Approved By:	
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<i>Black Ding</i>	<i>Tim.zhang</i>	<i>Misue Su</i>	

History of this test report

Original Report Issue Date: 2024.11.26

- ☒ No additional attachment
- ☐ Additional attachments were issued following record

Attachment No.	Issue Date	Description

1.. MPE CALCULATION METHOD

Radio Frequency Exposure Limit

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)
300-1,500	--	--	f/1500
1,500-100,000	--	--	1.0

Calculation Method of RF Safety Distance:

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

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

Table for Filed Antenna

Operating Mode	Antenna gain	Antenna Type
LTE Band 2	2.10dBi	FPC Antenna
LTE Band 4	1.89dBi	FPC Antenna
LTE Band 5	1.36dBi	FPC Antenna
LTE Band 7	2.35dBi	FPC Antenna
LTE Band 12	-2.72dBi	FPC Antenna
LTE Band 13	-1.16dBi	FPC Antenna
LTE Band 25	2.10dBi	FPC Antenna
LTE Band 26	1.36dBi	FPC Antenna
LTE Band 38	2.26dBi	FPC Antenna
LTE Band 40	2.27dBi	FPC Antenna
LTE Band 41	2.35dBi	FPC Antenna
LTE Band 66	1.95dBi	FPC Antenna

2.. TEST RESULTS

Worst case as below

Operating Mode	Freq.	Tune-up power	Directional Antenna Gain	Calculated maximum EIRP		MPE Limit	MPE Value
	(MHz)	(dBm)	(dBi)	(dBm)	(mW)	(mW/cm ²)	
LTE Band 2	1850-1910	23.0	2.10	25.10	323.59	1	0.064
LTE Band 4	1710-1755	23.0	1.89	24.89	308.32	1	0.061
LTE Band 5	824-849	23.0	1.36	24.36	272.90	0.549	0.054
LTE Band 7	2500-2570	23.0	2.35	25.35	342.77	1	0.068
LTE Band 12	699-716	23.0	-2.72	20.28	106.66	0.466	0.021
LTE Band 13	777-787	23.0	-1.16	21.84	152.76	0.518	0.030
LTE Band 25	1850-1915	23.0	2.10	25.10	323.59	1	0.064
LTE Band 26	814-849	23.0	1.36	24.36	272.90	0.549	0.054
LTE Band 38	2570-2620	23.0	2.26	25.26	335.74	1	0.067
LTE Band 40	2305-2315 2345-2360	23.0	2.27	25.27	336.51	1	0.067
LTE Band 41	2496-2690	23.0	2.35	25.35	342.77	1	0.068
LTE Band 66	1710-1780	23.0	1.95	24.95	312.61	1	0.062

Note: 1. The calculated distance is 20 cm.

2. This device only incorporates one WWAN transmitter, therefore simultaneous assessment is not required.

Result: Complies

Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technology Co., Ltd. (hereinafter referred to as the unit).
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

Shenzhen Haiyun Standard Technology Co., Ltd.

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(END OF REPORT)