

RF Exposure Evaluation Report

Product : High Power Relay
Trade mark : Zooz
Model/Type reference : ZEN78 800LR
Serial Number : N/A
Report Number : EED32R81174002
FCC ID : 2AZ2V-ZEN78
Date of Issue : Aug. 26, 2025
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
47 CFR Part 2.1093
447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

Lorenz High Definition LLC
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Prepared by:

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Aug. 26, 2025



Check No.: 4341140725

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3 General Information

3.1 Client Information

Applicant:	Lorenz High Definition LLC
Address of Applicant:	230 Rt 206 STE 401, Flanders, New Jersey 07836, United States
Manufacturer:	FanTEM Technologies (Shenzhen) Co., Ltd
Address of Manufacturer:	7th floor, Building 1, Technology Research and Development Industrial Zone, Jian Cang Technology Park, No. 11 Songgang Avenue, Songgang Street, Bao'an District, Shenzhen City, Guangdong, China.
Factory:	FanTEM Technologies (Shenzhen) Co., Ltd
Address of Factory:	7th floor, Building 1, Technology Research and Development Industrial Zone, Jian Cang Technology Park, No. 11 Songgang Avenue, Songgang Street, Bao'an District, Shenzhen City, Guangdong, China.

3.2 General Description of EUT

Product Name:	High Power Relay
Model No.:	ZEN78 800LR
Trade mark:	Zooz

3.3 Product Specification subjective to this standard

Frequency Range:	902.75MHz to 927.25MHz
Modulation Type:	Fix Location
Test Power Grade:	Default
Antenna Type:	Wire antenna
Antenna Gain:	1 dBi
Power Supply:	AC 120V
Sample Received Date:	Jul. 14, 2025
Sample tested Date:	Jul. 22, 2025 to Aug.05,2025

3.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

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

No tests were sub-contracted.

FCC Designation No.: CN1164

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

KDB447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(a)

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{(\text{min. test separation distance, mm})} \cdot \sqrt{f(\text{GHz})} \right] \leq 3.0$$

Where:

-f(GHz) is the RF channel transmit frequency in GHz

-Power and distance are rounded to the nearest mW and mm before calculation

-The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

4.1.2 EUT RF Exposure Evaluation

Type	Frequency (MHz)	Field strength (max)(dBuV/m)	Maximum Tune-up (dBm)	Maximum Tune-up (mW)	Calculating data	Limit	Result
FSK	916	106.34	12	15.849	0.00848	1868.640	Pass

Note:

dBuV/m to dBm, $\text{dBm} = \text{dBuV/m} - 95.2$

①Note: The exposure evaluation safety distance is 5mm.;

②The test data please refer to the report of EED32Q81781601 and only the worst case data was recorded in the report.

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;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
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*** End of Report ***