
MPE REPORT

Report No.: SRTC2021-9004(F)-21030306(I)

Product Name: LTE Wireless Router

Product Model: MF266, MF266B

Applicant: ZTE CORPORATION

Manufacturer: ZTE CORPORATION

Specification: FCC Part §2.1091, §2.1093, §1.1307(b), §1.1310 (2020)

FCC ID: SRQ-MF266

The State Radio_monitoring_center Testing Center (SRTC)

15th Building, No.30 Shixing Street, Shijingshan District,

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1 GENERAL INFORMATION

1.1 Notes of the test report

The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written permission of The State Radio_monitoring_center Testing Center (SRTC). The test results relate only to individual items of the samples which have been tested. The certification and accreditation identifiers used in this report shall not be applicable to the tested or calibrated samples thereof. The manufacturer shall not mark the tested samples or items (or a separate part of the item) with the identifiers of certification and accreditation to mislead relevant parties about the tested samples or items.

1.2 Information about the testing laboratory

Company:	The State Radio_monitoring_center Testing Center (SRTC)
Address:	15th Building, No.30 Shixing Street, Shijingshan District, P.R.China
City:	Beijing
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1.3 Applicant's details

Company:	ZTE CORPORATION
Address:	ZTE Plaza, #55 Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Guangdong
City:	Shenzhen
Country or Region:	China
Contacted person:	Gong Yu
Tel:	+86-21-68895397
Fax:	---
Email:	gongyu@zte.com.cn

1.4 Manufacturer's details

Company:	ZTE CORPORATION
Address:	ZTE Plaza, #55 Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Guangdong
City:	Shenzhen
Country or Region:	China
Contacted person:	Gong Yu
Tel:	+86-21-68895397
Fax:	---
Email:	gongyu@zte.com.cn

2 DESCRIPTION OF THE DEVICE UNDER TEST

2.1 Final Equipment Build Status

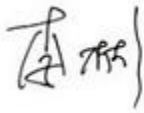
Frequency Bands	GSMS850/1900 WCDMA Band II/IV/V LTE Band 2/4/5/7/38/41
Mode	GSM: GPRS(GMSK),EDGE(GMSK/8PSK) WCDMA: RMC 12.2Kbps/HSDPA/HSUPA/DC-HSDPA/HSPA+ LTE: QPSK/16QAM/64QAM
Power Supply	Charger
Hardware Version	PCBMF266B-1.0
Software Version	BD_CLAPEODUMF266BV1.0.0B01
IMEI	866227050009630

3 REFERENCE SPECIFICATION

Specification	Version	Title
2.1091	2020	Radio frequency radiation exposure evaluation: mobile devices.
2.1093	2020	Radio frequency radiation exposure evaluation: portable devices.
1.1307(b)	2020	Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.
1.1310	2020	Radio frequency radiation exposure limits.
KDB447498	October 23, 2015	RF exposure procedures and equipment authorization policies for mobile and portable devices

4 RESULT SUMMARY

No.	Test case	FCC reference
1	MPE Calculation	FCC Part §2.1091, FCC Part §2.1093, FCC Part §1.1307(b) FCC Part §1.1310 KDB 447498

This Test Report Is Issued by: Mr. Peng Zhen 	Checked by: Mr. Li Bin 
Tested by: Mr. Tong Daocheng 	Issued date: 20210427

5 TEST RESULTS

5.1 Average Power Output Test Result

	Mode	Maximum Average power(dBm)
	GPRS850	33.00
	GPRS1900	29.00
WCDMA	Band II	22.00
	Band IV	24.00
	Band V	25.00
LTE	Band 2	22.00
	Band 4	22.00
	Band 5	25.00
	Band 7	25.00
	Band 38	25.00
	Band 41	23.00

5.2 Calculation result

FCC LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

(A) Limits for Occupational/Controlled Exposure ☐

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
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 ☒

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
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

Calculation procedure:

According to §2.1091, §2.1093, §1.1307(b) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = PG / (4\pi R^2)$$

Where S = power density in mW/cm²

P = transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

The calculations in the table below use the highest gain of antenna for client EUT. These calculations represent worst case in terms of the exposure levels.

Band	Freq. (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP/ERP (dBm)	Average EIRP/ERP (mW)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)
GPRS850	824.2	1.50	33.00	32.35	1717.908	0.342	0.549
GPRS1900	1850.2	4.00	29.00	33.00	1995.262	0.397	1.000
WCDMA Band 2	1852.4	4.00	22.00	26.00	398.107	0.079	1.000
WCDMA Band 4	1712.4	4.00	24.00	28.00	630.957	0.126	1.000
WCDMA Band 5	826.4	1.50	25.00	24.35	272.270	0.054	0.551
LTE Band 2	1850.7	4.00	22.00	26.00	398.107	0.079	1.000
LTE Band 4	1710.7	4.00	22.00	26.00	398.107	0.079	1.000
LTE Band 5	824.7	1.50	25.00	24.35	272.270	0.054	0.550
LTE Band 7	2502.5	6.00	25.00	31.00	1258.925	0.250	1.000
LTE Band 38	2572.5	6.00	25.00	31.00	1258.925	0.250	1.000
LTE Band 41	2537.5	6.00	23.00	29.00	794.328	0.158	1.000

Note:

1.For conservativeness, the lowest frequency of each band is used to determine the MPE limit of that band.

2.According to the KDB447498 D01 section 7.1 determine the device is exclusion from SAR test.

---End of Test Report---