

TEST REPORT

FCC ID. :	2BTMJ-T7	
Test Report No..... :	TCT251111E049	
Date of issue..... :	Dec. 09, 2025	
Testing laboratory	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name..... :	Shenzhen PDS Technology Co., Ltd.	
Address..... :	6th Floor 603, COFCO Building, No.3 Longjing 2nd Road, Xin'an Subdistrict, Bao'an District, Shenzhen, China	
Manufacturer's name ... :	Shenzhen PDS Technology Co., Ltd.	
Address..... :	6th Floor 603, COFCO Building, No.3 Longjing 2nd Road, Xin'an Subdistrict, Bao'an District, Shenzhen, China	
Standard(s)	FCC CFR Title 47 Part 1.1307 FCC CFR Title 47 Part 2.1091	
Product Name..... :	Vehicle Computer	
Trade Mark	N/A	
Model/Type reference..... :	T7	
Rating(s)..... :	DC 9-36V	
Date of receipt of test item	Nov. 11, 2025	
Date (s) of performance of test..... :	Nov. 11, 2025 ~ Dec. 09, 2025	
Tested by (+signature) ... :	Rleo LIU	
Check by (+signature).... :	Beryl ZHAO	
Approved by (+signature):	Tomsin	

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1. General Product Information

1.1. EUT description

Product Name.....:	Vehicle Computer
Model/Type reference.....:	T7
Sample Number.....:	TCT251111E006-0101
Operation Frequency	For BT/BLE: 2402MHz~2480MHz For 2.4G WIFI: 2412MHz~2462MHz For GSM: GPRS/EGPRS 850: 824.2MHz ~ 848.8MHz GPRS/EGPRS 1900: 1850.2MHz ~ 1909.8MHz For WCDMA: WCDMA Band V: 826.4MHz ~ 846.6MHz WCDMA Band IV: 1712.4MHz ~ 1752.6MHz WCDMA Band II: 1852.4MHz ~ 1907.6MHz LTE Band 2: TX: 1850 MHz ~ 1910 MHz RX: 1930 MHz ~ 1990 MHz LTE Band 4: TX: 1710 MHz ~ 1755 MHz RX: 2110 MHz ~ 2155 MHz LTE Band 5: TX: 824 MHz ~ 849 MHz RX: 869 MHz ~ 894 MHz LTE Band 12: TX: 699 MHz ~ 716 MHz RX: 729 MHz ~ 746 MHz LTE Band 13: TX: 777 MHz ~ 787 MHz RX: 746 MHz ~ 756 MHz LTE Band 25: TX: 1850 MHz ~ 1915 MHz RX: 1930 MHz ~ 1995 MHz LTE Band 26-1: TX: 814 MHz ~ 824 MHz RX: 859 MHz ~ 869 MHz LTE Band 26-2: TX: 824 MHz ~ 849 MHz RX: 869 MHz ~ 894 MHz LTE Band 41: TX: 2496 MHz ~ 2690 MHz RX: 2496 MHz ~ 2690 MHz
Modulation Type.....:	For BT: GFSK, $\pi/4$-DQPSK, 8DPSK For BLE: GFSK For 2.4G WIFI: DSSS(802.11b) OFDM(802.11g/802.11n) For GSM: GPRS: GMSK EGPRS: 8PSK For WCDMA: QPSK For LTE: QPSK/16QAM
Antenna Type.....:	For BT/BLE/2.4G WIFI: FPC Antenna For GSM/ WCDMA/ LTE: PIFA Antenna

Antenna Gain.....:	BT/BLE/2.4G WIFI: 2.42dBi GPRS/EGPRS 850: 1.78dBi GPRS/EGPRS 1900: 1.61dBi WCDMA Band V: 1.78dBi WCDMA Band IV: 0.47dBi WCDMA Band II: 1.61dBi LTE Band 2: 1.61dBi LTE Band 4: 0.47dBi LTE Band 5: 1.78dBi LTE Band 12: 1.77dBi LTE Band 13: 1.77dBi LTE Band 25: 1.61dBi LTE Band 26-1: 1.78dBi LTE Band 26-2: 1.78dBi LTE Band 41: 0.60dBi
Rating(s).....:	DC 9-36V

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

None.

2. General Information

2.1. Test environment and mode

Item	Normal condition
Temperature	+25°C
Voltage	DC 12V
Humidity	56%
Atmospheric Pressure:	1008 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel

2.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

3. Facilities and Accreditations

3.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- A2LA-No.: 4320.01

SHENZHEN TONGCE TESTING LAB

The testing lab has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

3.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4. Test Results and Measurement Data

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

Remark: 1)

For BT: The maximum output power for antenna is 6.87dBm (4.86mW) at 2480MHz, 2.42dBi antenna gain(with 1.75 numeric antenna gain.)

For BLE: The maximum output power for antenna is -0.73dBm (0.85mW) at 2440MHz, 2.42dBi antenna gain(with 1.75 numeric antenna gain.)

For 2.4G WIFI: The maximum output power for antenna is 15.25dBm (33.50mW) at 2462MHz, 2.42dBi antenna gain(with 1.75 numeric antenna gain.)

For GSM 850: The maximum output power for antenna is 32.06dBm (1606.94mW) at 848.8MHz, 1.78dBi antenna gain(with 1.51 numeric antenna gain.)

For GSM 1900: The maximum output power for antenna is 30.01Bm (1002.31mW) at 1909.8MHz, 1.61dBi antenna gain(with 1.45 numeric antenna gain.)

For WCDMA Band V: The maximum output power for antenna is 23.61dBm (229.61mW) at 826.4MHz, 1.78dBi antenna gain(with 1.51 numeric antenna gain.)

For WCDMA Band IV: The maximum output power for antenna is 23.68dBm (233.35mW) at 1752.6MHz, 0.47dBi antenna gain(with 1.11 numeric antenna gain.)

For WCDMA Band II: The maximum output power for antenna is 23.40dBm (218.78mW) at 1907.6MHz, 1.61dBi antenna gain(with 1.45 numeric antenna gain.)

For LTE Band 2: The maximum output power for antenna is 24.87dBm (306.90mW) at 1880MHz, 1.61dBi antenna gain(with 1.45 numeric antenna gain.)

For LTE Band 4: The maximum output power for antenna is 23.77dBm (238.23mW) at 1747.5MHz, 0.47dBi antenna gain(with 1.11 numeric antenna gain.)

For LTE Band 5: The maximum output power for antenna is 23.91dBm (246.04mW) at 836.5MHz, 1.78dBi antenna gain(with 1.51 numeric antenna gain.)

For LTE Band 12: The maximum output power for antenna is 24.34dBm (271.64mW) at 711MHz, 1.77dBi antenna gain(with 1.50 numeric antenna gain.)

For LTE Band 13: The maximum output power for antenna is 23.91dBm (246.04mW) at 779.5MHz, 1.77dBi antenna gain(with 1.50 numeric antenna gain.)

For LTE Band 25: The maximum output power for antenna is 25.71dBm (372.39mW) at 1907.5MHz, 1.61dBi antenna gain(with 1.45 numeric antenna gain.)

For LTE Band 26-1: The maximum output power for antenna is 23.93dBm (247.17mW) at 823.3MHz, 1.78dBi antenna gain(with 1.51 numeric antenna gain.)

For LTE Band 26-2: The maximum output power for antenna is 23.83dBm (241.55mW) at 836.5MHz, 1.78dBi antenna gain(with 1.51 numeric antenna gain.)

For LTE Band 41: The maximum output power for antenna is 23.15dBm (206.54mW) at 2593MHz, 0.60dBi antenna gain(with 1.15 numeric antenna gain.)

- 2) For mobile or fixed location transmitters, no SAR consideration applied. The minimum separation generally be used is at least 20cm, even if the calculation indicate that the MPE distance would be lesser.

Calculation:

Given $E = \frac{\sqrt{30 \cdot P \cdot G}}{d}$ & $S = \frac{E^2}{3770}$

Where E = Field strength in Volts / meter

P = Power in Watts

G = Numeric antenna gain

d = Distance in meters

S = Power density in milliwatts / square centimeter

Substituting the MPE safe distance using $d=20\text{cm}$ into above equation.

Yields: $S=0.000199 \cdot P \cdot G$

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).

LTE:

Mode	Power(mW)	numeric antenna gain	Power density (mW/cm ²)	Limit (mW/cm ²)	Result
BT	4.86	1.75	0.001692	1	Pass
BLE	0.85	1.75	0.000296	1	
2.4G WIFI	33.50	1.75	0.011666	1	
GSM 850	1606.94	1.51	0.482869	0.565867	
GSM 1900	1002.31	1.45	0.289217	1	
WCDMA Band V	229.61	1.51	0.068996	0.550933	
WCDMA Band IV	233.35	1.11	0.051545	1	
WCDMA Band II	218.78	1.45	0.063129	1	
LTE Band 2	306.90	1.45	0.088556	1	
LTE Band 4	238.23	1.11	0.052623	1	
LTE Band 5	246.04	1.51	0.073933	0.557667	
LTE Band 12	271.64	1.50	0.081085	0.474000	
LTE Band 13	246.04	1.50	0.073443	0.519667	
LTE Band 25	372.39	1.45	0.107453	1	
LTE Band 26-1	247.17	1.51	0.074272	0.548867	
LTE Band 26-2	241.55	1.51	0.072583	0.557667	
LTE Band 41	206.54	1.15	0.047267	1	

The device contain transmitters (BT & GSM, BT & WCDMA, BT & LTE, BLE & GSM, BLE & WCDMA, BLE & LTE, 2.4G WIFI & GSM, 2.4G WIFI & WCDMA, 2.4G WIFI & LTE) can transmit multiple transmission modes at the same time.

Maximum Emissions Level			
Mode	Total MPE	Limit	Result
BT & GSM	0.484561	1.0	Pass
BT & WCDMA	0.070688		
BT & LTE	0.109145		
BLE & GSM	0.483165		
BLE & WCDMA	0.069292		
BLE & LTE	0.107749		
2.4G WIFI & GSM	0.494535		
2.4G WIFI & WCDMA	0.080662		
2.4G WIFI & LTE	0.119119		

*******END OF REPORT*******