



RF EXPOSURE REPORT

Applicant	:	BYD Auto Industry Company Limited		
Address of Applicant	•	No.3001, 3007, HengPing Road, Pingshan, Shenzhen, Guangdong, P.R. China		
Manufacturer	:	BYD Auto Industry Company Limited		
Address of Manufacturer	:	No.3001, 3007, HengPing Road, Pingshan, Shenzhen, Guangdong, P.R. China		
Equipment under Test	:	In-vehicle Multimedia Host		
Model No.	•	MTN206		
FCC ID	••	SD4-MTN206		
Test Standard(s)	1	KDB447498 D01 General RF Exposure Guidance v06		
Report No.	:	DDT-RE24122405-4E03		
Issue Date	:	2025/03/12		
Issue By	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China 523808			



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Test Report Declare

Report No.: DDT-RE24122405-4E03

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Address of Applicant	No.3001, 3007, HengPing Road, Pingshan, Shenzhen, Guangdong, P.R. China			
Equipment under Test	:	-vehicle Multimedia Host		
Model No.	:	MTN206		
Manufacturer	•	BYD Auto Industry Company Limited		
Address of Manufacturer	. No.3001, 3007, HengPing Road, Pingshan, Shenzhen, Guangdong, P.R. China			

Test Standard Used:

KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE24122405-4E03			
Date of Receipt:	2025/01/03	Date of Test:	2025/01/03~2025/02/28	

Created: Jacky Huang	Reviewed: Ella Gong	Approved: Damon Hu	
Sacky Huang	Ella Gong	Damon Mu	
2025/03/02	2025/03/12	2025/03/12	

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

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Revision History

Report No.: DDT-RE24122405-4E03

Rev.	Revisions	Issue Date	Revised By
	Initial issue	2025/03/12	
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1. General Test Information

1.1. Description of EUT

EUT Name	:	In-vehicle Multimedia Host	
Model Number	:	MTN206	
EUT Function Description	:	Please reference user manual of this device	
Power Supply	:	DC 12V	
Radio Specification	:	Bluetooth BR/EDR/LE	
Operation Frequency		2402 MHz to 2480 MHz	
Modulation		: GFSK, π/4-DQPSK, 8DPSK	
Antenna Type	:	External PCB Antenna	
Max Antenna Gain (dBi)	1	2.76	

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Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual.

1.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
Bluetooth antenna	BYD Auto Industry Company Limited	MT40BC	Antenna
Connecting cable	N/A	N/A	length: 1.80m, unshielded

1.3. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20240, G-20118

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2. RF Exposure evaluation for FCC

2.1. Assessment procedure

Requirement:

Systems operating under the provisions of FCC 47 CFR 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.

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In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

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)*	30
30-300	27.5	0.073	0.2	30
300-1500		10/	F/1500	30
1500-100000			1.0	30
Note: f= frequer	ncy in MHz; *Plan	e-wave equivalent power de	nsity	8

Calculation method

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: $S(mW/cm^2) = \frac{E^2}{377}$

E = Electric field (V/m)

P = Peak RF output power (mW)

G = EUT Antenna numeric gain (numeric)=

d = Separation distance between radiator and human body (m)

The formula can be changed to

We can change the formula to:

$$S = \frac{30 \times P \times G}{377 \times d^2}$$
 or, $d = \sqrt{\frac{30 \times P \times G}{377 \times S}}$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2 m, as well as the gain of the used antenna, the RF power density can be obtained.

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2.2. Assess result

Mode	Output power (dBm)	tune up power (dBm)	tune up power (mW)	Antenna Gain (dBi)	Antenna Gain (linear)	MPE Values (mW/cm ²)	MPE Limit (mW/cm ²)
Bluetooth BR	6.31	7.00	5.01	2.76	1.89	0.002	1
Bluetooth EDR	5.71	7.00	5.01	2.76	1.89	0.002	1
Bluetooth LE	5.35	7.00	5.01	2.76	1.89	0.002	1

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Note: The estimation distance is 20 cm

Conclusion: MPE evaluation required since transmitter power is below FCC threshold



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