

RF Exposure Evaluation Report

Report Reference No...... : **MTEB25060089-H**

FCC ID..... : **2BPER-A3195**

Compiled by

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Date of issue..... : **Jun.10,2025**

Representative Laboratory Name. : **Shenzhen Most Technology Service Co., Ltd.**

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Applicant's name..... : **Dongguan Zhun Peixi Trading Company**

Address..... : Room 302, No. 16, Jimei 6th Lane, Humen Town, Dongguan City,
Guangdong Province, China

Test specification/ Standard..... : **47 CFR Part 1.1307;47 CFR Part 1.1310**
KDB447498D01 General RF Exposure Guidance v06

TRF Originator..... : Shenzhen Most Technology Service Co., Ltd.

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Test item description..... : Double Din/Single Din Car Stereo

Trade Mark..... : N/A

Model/Type reference..... : A3195

Listed Models : A3064 、 A3216 、 A3398 、 A2882 、 A3215 、 A3797 、 A3796 、
A3644 、 A3991 、 A3476 、 A3591 、 A3013 、 A2798 、 A3018 、
A3453 、 A3572 、 A3012 、 A3019 、 A3196 、 A3080 、 A2516 、
A3477 、 A3268 、 A3266 、 A2769 、 A3652

Modulation Type..... : GFSK
OFDM

Operation Frequency..... : BT: From 2402MHz to 2480MHz
WIFI 5G: From 5180MHz-5240MHz

Hardware Version..... : JCMM30-0-2024.06.09_23:12

Software Version..... : JCAC10003-OC2-V1.1.62R0-250423_0757-AC-C0

Rating..... : DC 12V

Result..... : **PASS**

TEST REPORT

Equipment under Test : Double Din/Single Din Car Stereo

Model /Type : A3195

Listed Models : A3064 、 A3216 、 A3398 、 A2882 、 A3215 、 A3797 、 A3796 、
A3644 、 A3991 、 A3476 、 A3591 、 A3013 、 A2798 、 A3018 、
A3453 、 A3572 、 A3012 、 A3019 、 A3196 、 A3080 、 A2516 、
A3477 、 A3268 、 A3266 、 A2769 、 A3652

Remark : Only the model “ A3195 ” was tested, Their electrical circuit design, layout, components used and internal wiring are identical, Only the model name and Appearance colour is different.

Applicant : **Dongguan Zhun Peixi Trading Company**

Address : Room 302, No. 16, Jimei 6th Lane, Humen Town, Dongguan City, Guangdong Province, China

Manufacturer : **Dongguan Zhun Peixi Trading Company**

Address : Room 302, No. 16, Jimei 6th Lane, Humen Town, Dongguan City, Guangdong Province, China

Test Result:	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2025.06.10	Initial Issue	Alisa Luo

2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.1.2 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$ Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

2.1.3 EUT RF Exposure

BLE

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	1.53	1.53 ± 1	2.53
Middle(2440MHz)	-0.36	-0.36 ± 1	0.64
Highest(2480MHz)	0.51	0.51 ± 1	1.51

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum Peak Conducted Output Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
Lowest(2402MHz)	2.53	1.79	1.9	0.0006	1.0	Pass

Note: 1) Refer to report **MTEB25060089-R** for EUT test Max Conducted average Output Power value.

Note: 2) $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2) = (1.79 \cdot 1.55) / (4 \cdot 3.1416 \cdot 20^2) = 0.0006$

Note: 3) EUT's Bluetooth module is more than 20cm away from the human body.

WIFI 5G

WIFI 5G U-NII 1

IEEE for 802.11a			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(5180MHz)	9.150	9.150 ± 1	10.15
Middle(5200MHz)	9.329	9.329 ± 1	10.329
Highest(5240MHz)	10.669	10.669 ± 1	11.669

IEEE for 802.11n(HT20)			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(5180MHz)	8.666	8.666 ± 1	9.666
Middle(5200MHz)	9.087	9.087 ± 1	10.087
Highest(5240MHz)	10.425	10.425 ± 1	11.425

IEEE for 802.11n(HT40)			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(5190MHz)	2.791	2.791 ± 1	3.791
Highest(5230MHz)	8.143	8.143 ± 1	9.143

Worst case: IEEE for 802.11a						
Channel	Maximum Peak Conducte	Maximum Peak Conducted Output Power	Antenna Gain	Power Density at R = 20 cm	Limit	Result
	(dBm)	(MW)	(dBi)	(mW/cm ²)		
Highest(5240MHz)	11.669	14.69	0.6	0.0034	1.0	Pass

Note: 1) Refer to report **MTEB25060089-R1** for EUT test Max Conducted average Output Power value.

Note: 2) $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2) = (14.69 \cdot 1.15) / (4 \cdot 3.1416 \cdot 20^2) = 0.0034$

Note: 3) EUT's Wifi module is more than 20cm away from the human body.