



RF EXPOSURE Test Report

Report No.: MTi220302012-03E2
Date of issue: 2022-05-06
Applicant: UP(Guangzhou)Electronics Co., Ltd.
Product name: 7INCH CAR MULTIMEDIA PLAYER WITH RADIO
Model(s): PLT85BTCM, PLCM7200, PLCM7700, PLCM7500,
PLCMTR71, PLCMTR92
FCC ID: 2A4GI-PLT85BTCM

Shenzhen Microtest Co., Ltd.

<http://www.mtitest.com>



Instructions

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TEST RESULT CERTIFICATION	
Applicant's name	UP(Guangzhou)Electronics Co., Ltd.
Address	2/F, Block 2, No. 13 Chaosheng Road, Jinghu Ave., Huadu Dist., Guangzhou, China
Manufacturer's Name	UP(Guangzhou)Electronics Co., Ltd.
Address	2/F, Block 2, No. 13 Chaosheng Road, Jinghu Ave., Huadu Dist., Guangzhou, China
Product description	
Product name	7INCH CAR MULTIMEDIA PLAYER WITH RADIO
Trademark	PYLE
Model Name	PLT85BTCM
Serial Model	PLCM7200, PLCM7700, PLCM7500, PLCMTR71, PLCMTR92
Standards	N/A
Test procedure	KDB 447498 D01 v06
Date of Test	
Date (s) of performance of tests	2022-03-02 ~ 2022-04-29
Test Result	Pass
This device described above has been tested by Shenzhen Microtest Co., Ltd. and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.	

Testing Engineer

:

Cindy Qin

(Cindy Qin)

Technical Manager

:

Leon Chen

(Leon Chen)

Authorized Signatory

:

Tom Xue

(Tom Xue)



RF EXPOSURE EVALUATION

According to FCC 1.1310: 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 §1.1307(b)

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 Exposure				
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
300-1,500			f/300	6
1,500-100,000			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
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

MPE Calculation Method

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

Where

P_d = Power density in mW/cm²

P_{out} = output power to antenna in mW

G = Numeric gain of the antenna relative to isotropic antenna

π = 3.1415926

R = distance between observation point and center of the radiator in cm(20cm)

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

Measurement Result

BT:

Operation Frequency: 2402-2480MHz,

Power density limited: 1mW/ cm²

Antenna Type: PCB Antenna;

WIFI antenna gain: 3.3dBi

R=20cm

$mW=10^{(dBm/10)}$

antenna gain Numeric= $10^{(dBi/10)}=10^{(3.3/10)}=2.14$

BR+EDR:

Chann el Freq. (MHz)	modulation n	conducte d power	Tune- up powe r (dBm)	Max		Antenna		Evaluation result	Power density Limits
		(dBm)		tune-up power		Gain		(mW/cm2)	(mW/c m2)
				(dBm)	(mW)	(dBi)	Nume ric		
2402	GFSK	1.19	1±1	2	1.585	3.3	2.14	0.0007	1
2441		1.44	1±1	2	1.585	3.3	2.14	0.0007	1
2480		0.75	1±1	2	1.585	3.3	2.14	0.0007	1
2402	π/4- DQPSK	2.15	2±1	3	1.995	3.3	2.14	0.0008	1
2441		2.38	2±1	3	1.995	3.3	2.14	0.0008	1
2480		1.66	2±1	3	1.995	3.3	2.14	0.0008	1

Conclusion:

For the max result: $0.0008 \leq 1$, PASS.

----END OF REPORT----