

RF EXPOSURE Test Report

Report No.: MTi231117013-01E2

Date of issue: 2024-03-21

Applicant: CAD Business LLC

Product: Car Multimedia Player

Model(s): XA-M628B

FCC ID: 2BE7DM628B

Shenzhen Microtest Co., Ltd. http://www.mtitest.com

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Test Result Certification					
Applicant:	CAD Business LLC				
Address:	11379 Harry Hines Blvd, Dallas, TX 75229 USA				
Manufacturer:	CAD Business LLC				
Address:	11379 Harry Hines Blvd, Dallas, TX 75229 USA				
Product description					
Product name:	Car Multimedia Player				
Trademark:	XELON AUDIO				
Model name:	XA-M628B				
Series Model:	N/A				
Standards:	N/A				
Test procedure:	KDB 447498 D01 v06				
Date of Test					
Date of test:	2024-03-15 to 2024-03-21				
Test result:	Pass				

Test Engineer	:	Modern Lang					
		(Maleah Deng)					
Reviewed By:	:	leon chan					
		(Leon Chen)					
Approved By:	:	tom Xue					
		(Tom Xue)					

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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 4.89/1	*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 Gene	ral Population/Uncontrolled	Exposure					
0.3-1.34	614	1.63	*100	30				
1.34-30	824/	f 2.19/1	*180/f ²	30				
30-300	27.5	0.073	0.2	90				
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: Pd= (Pout*G)\ (4*pi*R2)

Where

Pd= Power density in mW/cm²

Pout=output power to antenna in mW

G= Numeric gain of the antenna relative to isotropic antenna

Pi=3.1415926

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

Pd 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.

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Measurement Result

BR&EDR:

Operation Frequency: 2402-2480MHz,

Power density limited: 1mW/ cm²

Antenna Type: PCB Antenna

Antenna gain: -0.68dBi

R=20cm

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

antenna gain Numeric=10^(dBi/10)= 10^(-0.68/10)=0.86

BR&EDR:

Channel Freq. modulati (MHz)		conducted power	Tune- up	Max		Antenna		Evaluation result	Power density Limits
	modulation	(dBm)	power	tune-up power		Gain		(m)M/am2)	(m)M/am2)
		(ubiii)	(dBm)	(dBm)	(mW)	(dBi)	Numeric	(mW/cm ²)	(mW/cm ²)
2402		-1.00	(-1)±1	0	1.000	-0.68	0.86	0.0002	1
2441	2441 GFSK 2480	-0.20	0±1	1	1.259	-0.68	0.86	0.0002	1
2480		1.39	1±1	2	1.585	-0.68	0.86	0.0003	1
2402	2402 2441 π/4- DQPSK 2480	-0.28	0±1	1	1.259	-0.68	0.86	0.0002	1
2441		0.52	0±1	1	1.259	-0.68	0.86	0.0002	1
2480		2.11	2±1	3	1.995	-0.68	0.86	0.0003	1

Conclusion:

For the max result: 0.0003≤ 1.0 test exclusion threshold, No SAR is required

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