

Shenzhen Most Technology Service Co., Ltd.

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RF Exposure Evaluation Report

Report Reference No...... MTEB25020179-H FCC ID...... 2ASUD-HMR18

Compiled by

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Date of issue..... Feb.26,2025

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

Nanshan, Shenzhen, Guangdong, China.

Applicant's name Elettromedia s.p.a.

Address...... 62018 Potenza Picena (MC) Italy

KDB447498D01 General RF Exposure Guidance v06

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

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Test item description.....: Digital media receiver

Trade Mark...... Hertz

Model/Type reference..... HMR 18

Listed Models HMR 18D

Modulation Type.....: GFSK, $\pi/4DQPSK$, 8DPSK

Rating...... DC 12V by DC Source

Result..... PASS

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TEST REPORT

Equipment under Test Digital media receiver

Model /Type **HMR 18**

Listed Models HMR 18D

Only "HMR 18" model has been tested, and their circuit design, Remark

layout, components used and internal wiring are the same, but

there are some differences in appearance.

Applicant Elettromedia s.p.a.

Address 62018 Potenza Picena (MC) Italy

Manufacturer Eastern Partner Limited

Address Room 1413, ICC Tower ,Fuhau San Road,Futian CBD,Shenzhen

518048, 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.

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1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2025.02.26	Initial Issue	Alisa Luo

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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/cm²)	Averaging time (minutes)
(A) Lim	its for Occupational	/Controlled Exposure	es	
0.3–3.0 3.0–30 30–300 300–1500 1500–100,000	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/t²) 1.0 f/300	6 6 6 6
*** *******	year to the week provide the last rec	on/Uncontrolled Exp	2.2.522214	
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: Pd = (Pout*G)/(4* Pi * R 2) Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

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

Pd id 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.

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2.1.3 EUT RF Exposure

BT classic

B i diaddid				
GFSK				
Test channel	Peak Output Power Tune up tolerance		Maximum tune-up Power	
	(dBm)	(dBm)	(dBm)	
Lowest(2402MHz)	1.717	1.717±1	2.717	
Middle(2441MHz)	1.153	1.153±1	2.153	
Highest(2480MHz)	1.041	1.041 ± 1	2.041	

π /4DQPSK				
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power	
	(dBm)	(dBm)	(dBm)	
Lowest(2402MHz)	2.532	2.532±1	3.532	
Middle(2441MHz)	2.013	2.013±1	3.013	
Highest(2480MHz)	1.912	1.912±1	2.912	

8DPSK				
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power	
	(dBm)	(dBm)	(dBm)	
Lowest(2402MHz)	2.980	2.980±1	3.98	
Middle(2441MHz)	2.463	2.463±1	3.463	
Highest(2480MHz)	2.365	2.365±1	3.365	

Worst case: 8DPSK						
Channel	Maximum tune-up Power (dBm)	Maximum tune-up Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm2)	Limit	Result
Highest(2480MHz)	3.98	2.50	0	0.0005	1.0	Pass

Note: 1) Refer to report MTEB25020179-R for EUT test Max Conducted average Output Power value.

Note: 2) Pd = (Pout*G)/(4*Pi*R2)=(2.50*1)/(4*3.1416*202)=0.0005Note: 3) EUT's Bluetooth module is more than 20cm away from the human body.

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